

AML

Bolt-down EV fuse



Product features

- Current rating: 350 A to 500 A
- 125 Vdc rating
- High breaking capacity for high energy applications
- Designed to JASO D622, ISO8820-8, GB/T31465
- Produced in a factory with ISO9001 & IATF16949 certification
- Bolt-down terminals
- Minimum breaking capacity 300% I_n at rated DC voltage
- Fuse accessories:

[BSCR-101: \(48.45 x 18.7 x 45.9 mm\) fuse holder](#)

Applications

- Automotive and commercial vehicle on-board chargers
- Uninterruptible power supplies (UPS)
- 3-phase EVSE and charging infrastructure
- Motor protection
- Rectifiers and inverters
- Energy storage systems
- On-board electric vehicle powertrain and distribution

Agency information

cURus Recognition file number: E91958



Environmental compliance



Ordering part number

BK-AML-350

Packaging code _____
 Family code _____
 Rated current _____

Packaging code

BK - 30 parts per tray
 Blank - 10 parts per box

Electrical characteristics

Amps (A)	Minimum (seconds)	Maximum (seconds)
1.0 I _n	14,400	-
3.0 I _n	-	10

Product specifications

Part number	Rated voltage	Rated current (A)	Breaking capacity	Typical cold resistance ¹ (mΩ)	Typical voltage drop (mV)
AML-350	125 Vdc	350	125 Vdc/20 kA	0.137	92
AML-400	125 Vdc	400	125 Vdc/20 kA	0.120	93
AML-500	125 Vdc	500	125 Vdc/20 kA	0.102	106

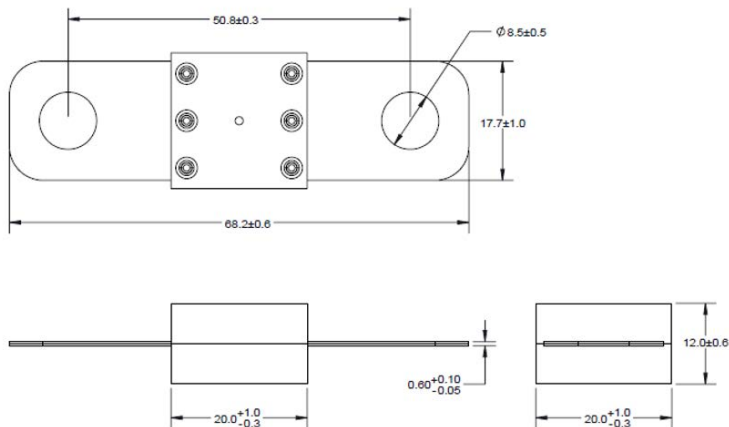
1. Cold resistance is measured at <10% I_n and +25 °C ambient temperature

Dimensions- mm


Tolerances unless otherwise specified

One place x.x = ± 0.3 mm

Two place x.xx = ± 0.13 mm



Part marking

BUSS	—	Trademark
AML	—	Family name
350A	—	Rated current
125Vdc	—	Rated voltage
 US	—	Certificate

Note: recommended tightening torque is 11 - 13 Nm for M8 Screw

General specifications

Operating temperature: -40 °C to +105 °C with proper derating factor applied

Strength of terminals: JASO D622 6.3.9, mounting torque 12 +/-1 Nm, 3 times

Temperature humidity cycling: JASO D622 6.3.4.1,

- a) maintain the samples at standard conditions for 4 hours
 - b) increase T to 55 +/-2 °C at 95% to 99% RH within 0.5 hours
 - c) maintain T at 55 +/-2 °C at 95% to 99% RH for 10 hours
 - d) decrease T to -40 +/-2 °C within 2.5 hours; the humidity is uncontrolled
 - e) maintain T at -40 +/-2 °C for 2 hours; the humidity is uncontrolled
 - f) increase T to 120 +/-2 °C within 1.5 hours from -40 +/-2 °C; the humidity is uncontrolled
 - g) maintain T at 120 +/-2 °C for 2 hours; the humidity is uncontrolled
 - h) allow to return to RT within 1.5 hours; the humidity is uncontrolled 10 cycles.
-

Thermal shock: ISO8820-8 GB/T31465.6, 200 cycles; -40 °C to 120 °C, each cycle 60 minutes

Vibration: JASO D622 6.3.3, 10-55 Hz, 3 directions, 2 hours each direction

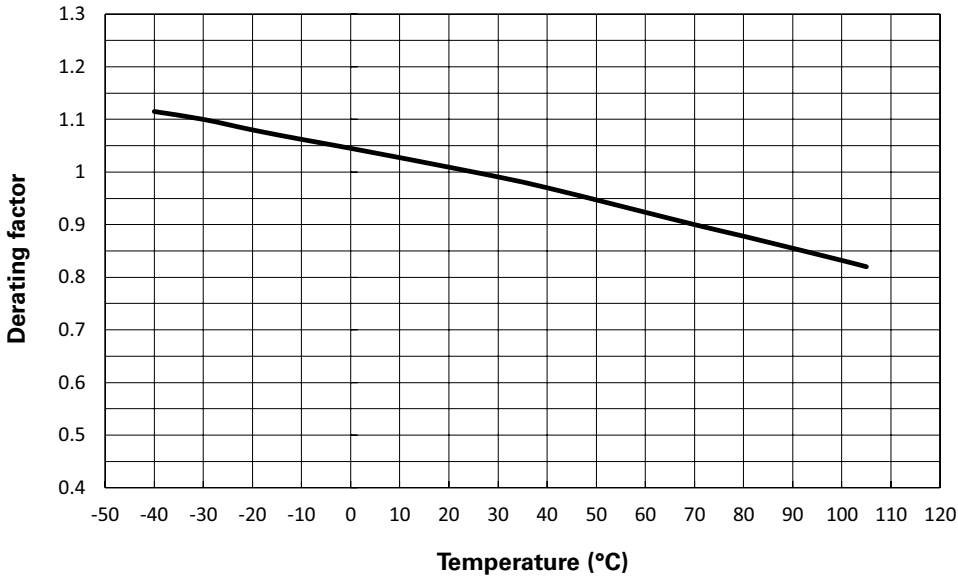
Transient current cycling: JASO D622 6.3.2 (reference), The transient current start from 2.0 In for 0.25 seconds, then drop to 0.5 In and keep this current to 15 seconds to finish one cycle, total 50000 cycles

Lubricant & fuel oil resistance: GB/T31465.1-5.4, Wipe the marking with lubricant or oil 30 seconds

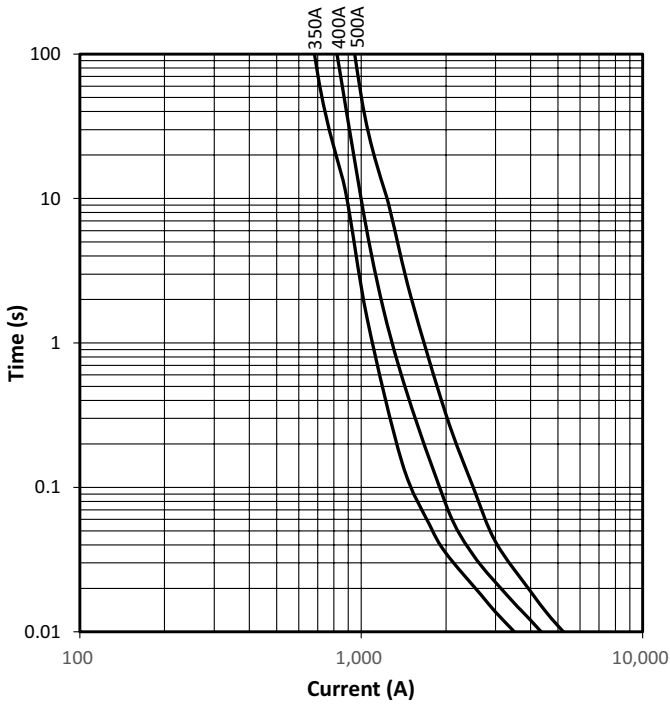
Packaging information

Terminals	Inner package	Ship package
BK	30 pieces/tray	300 pieces/box
Blank	10 pieces/box	140 pieces/box

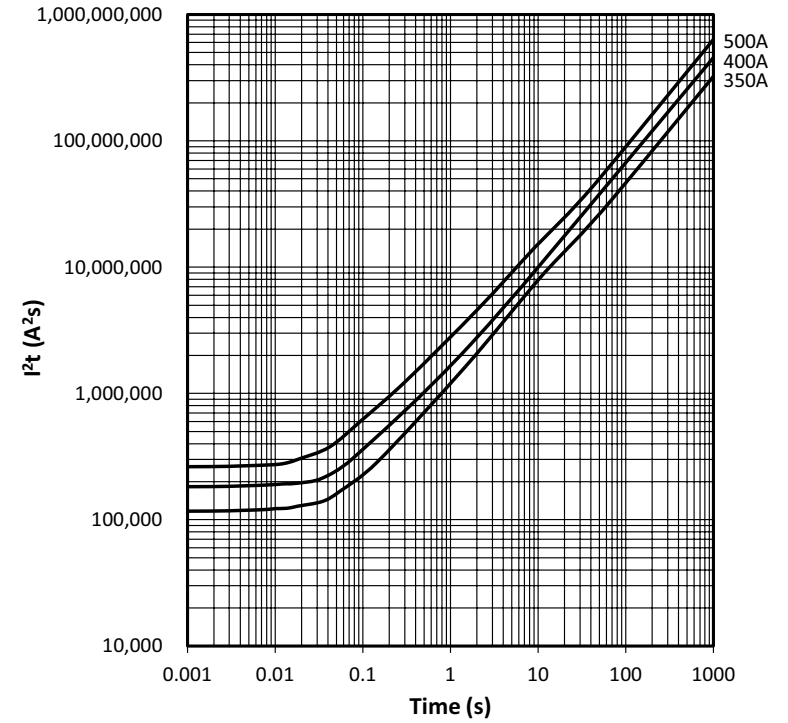
Temperature derating curve



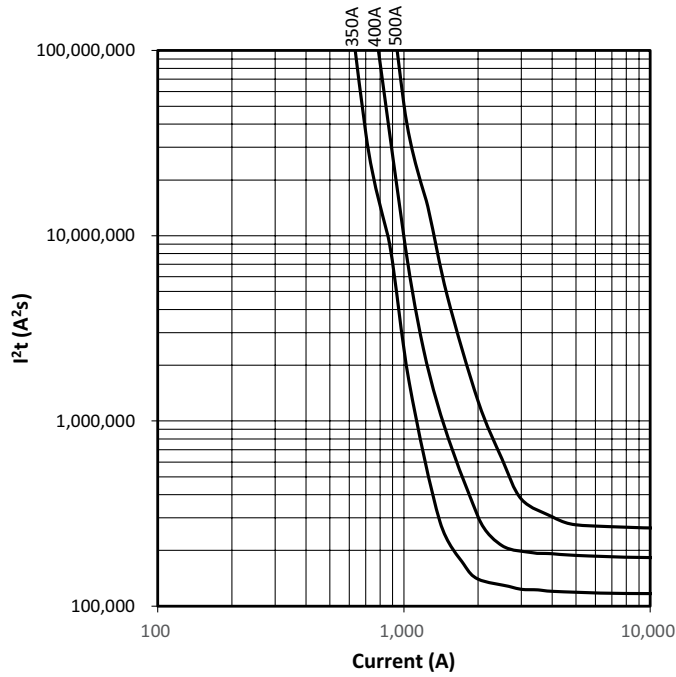
Current vs. time curve



I²t vs. time curve



I²t vs. current curve



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