

# AMH

## Automotive bolt in fuse

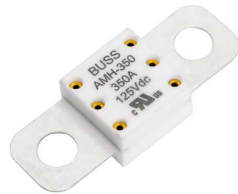


Photo is representative

### Product features

- Small size for high current applications
- 125 Vdc voltage rating
- Ceramic body with bolt in terminal design
- UL recognized

### Applications

- High current wire protection
- Vehicle power distribution
- Material handling systems
- Aircraft power distribution
- All supercapacitor and battery systems
- High current wire protection

### Agency information

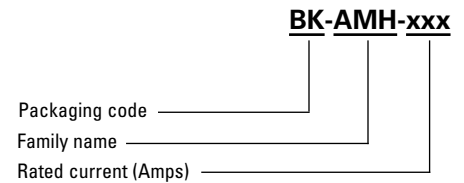
- cURus recognized file: E91958, guide JFHR2 and JFHR8
- TUV: R50596649



### Environmental compliance



### Ordering part number



### Packaging code

BK - 30 parts per tray

Blank - 1 part per polybag, 10 parts per inner box

**Electrical characteristics**

Amp rating	1.0 In	3.0 In
100 - 500	4 hours minimum	< 10 seconds

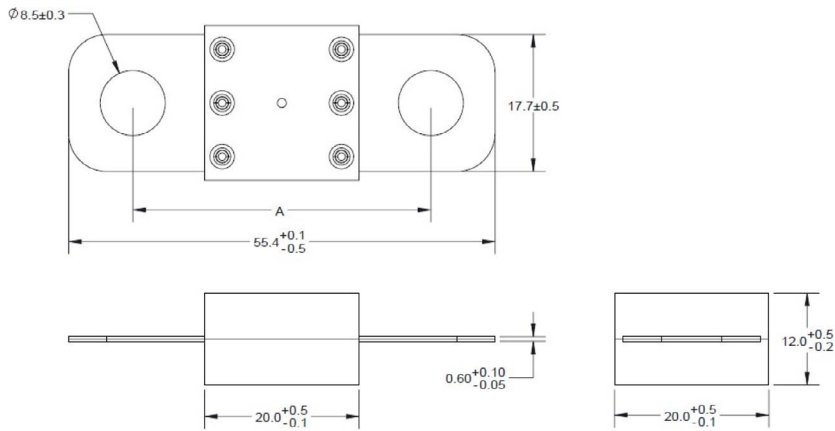
**Product specifications**

Part number	Rated current (A)	Voltage rating (Vdc)	Breaking capacity UL	TUV	Typical cold resistance (mOhms) <sup>1</sup>
AMH-100	100	125	20 KA @ 125 Vdc	20 KA @ 125 Vdc	0.472
AMH-150	150	125	20 KA @ 125 Vdc	20 KA @ 125 Vdc	0.347
AMH-200	200	125	20 KA @ 125 Vdc	20 KA @ 125 Vdc	0.235
AMH-250	250	125	20 KA @ 125 Vdc	20 KA @ 125 Vdc	0.176
AMH-300	300	125	20 KA @ 125 Vdc	20 KA @ 125 Vdc	0.16
AMH-350	350	125	20 KA @ 125 Vdc	20 KA @ 125 Vdc	0.14
AMH-400	400	125	16 kA @ 125 Vdc	20 KA @ 125 Vdc	0.125
AMH-500	500	125	16 kA @ 125 Vdc	20 KA @ 125 Vdc	0.104

1. Cold resistance is measured at <10% rated current

**Dimensions- mm**

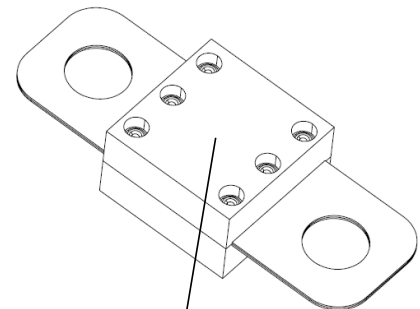
Drawing not to scale



Part number	Dimension A (mm)
AMH-XXX	39 +/- 0.3

Recommended torque: M8: 12+/-1 N-m.

**Marking detail**

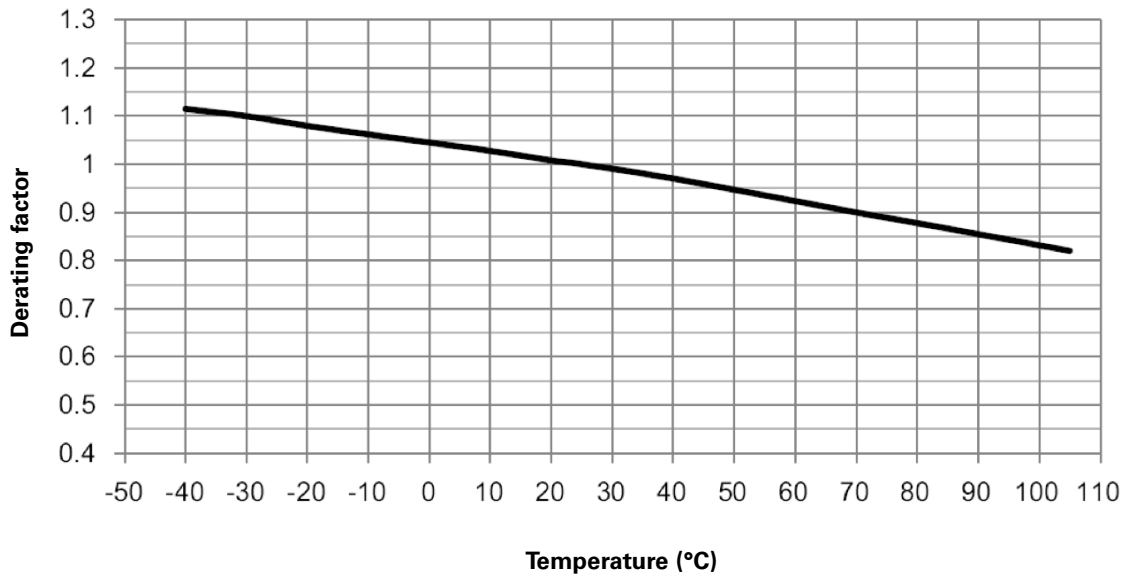


**BUSS**  
AMH-XXX  
XXXXA  
IR 20kA 125Vdc  
UL aBat  
  

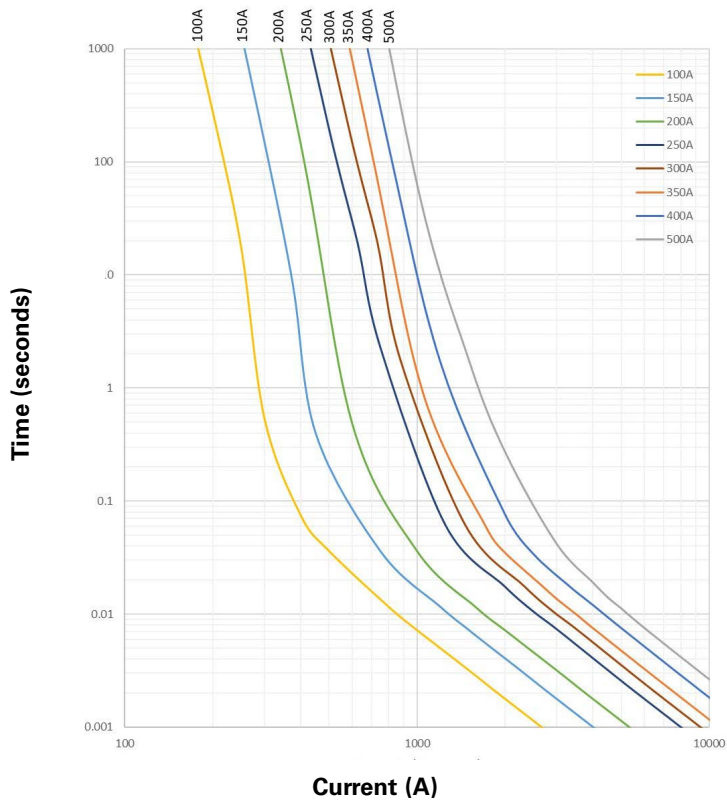

**General specifications**

Item	Standrd/Specification	Conditions	Acceptable value/range
Operating temperature		-40 °C to +105 °C with proper derating	
Strength of terminals	JASO D622 ISO8820-8	mounting torque 12+/-1 Nm, 3 times	Resistance change <10%
Temperature rise	JASO D622 ISO8820-8	0.5 In, 40 min	not exceed 50 K
Temperature humidity cycling	JASO D622 ISO8820-8	a) maintain the samples at standard conditions for 4 h; b) increase T to 55+/-2 °C at 95% to 99% RH within 0.5 h; c) maintain T at 55+/-2 °C at 95% to 99% RH for 10 h; d) decrease T to -40+/-2 °C within 2.5 h; the humidity is uncontrolled; e) maintain T at -40+/-2 °C for 2 h; the humidity is uncontrolled; f) increase T to 120+/-2 °C within 1.5 h from -40+/-2 °C; the humidity is uncontrolled; g) maintain T at 120+/-2 °C for 2 h; the humidity is uncontrolled; h) allow to return to RT within 1.5 h; the humidity is uncontrolled; 10 cycles.	Resistance change <10%, electrical performance within spec
Thermal shock	JASO D622 ISO8820-8 (reference)	a) -40+/-2 °C, 20 min; b) 15 sec dwell time; c) 125+/-2 °C, 20 min; d) 15 sec dwell time; 48 cycles.	Resistance change <10%, electrical performance within spec
Vibration	UL248-20 IEC 60068-2-64	Random vibration. Condition C: rms 30.2 m/s2, 3 directions, 8 hrs each.	Resistance change <10%, electrical performance within spec
Transient current cycling	JASO D622 ISO8820-8 (reference)	23+/-5 °C, each cycle current 2 In/0.25 sec, 0.5 In/5 sec, 50000 cycles.	Resistance change <10%, electrical performance within spec
Lubricant & fuel oil resistance	GB/T31465.1-5.4	Wipe the marking with lubricant or oil 30 s	Marking can be identified
Breaking capacity		Follow the spec	IR > 0.1 Mohm, no explosion

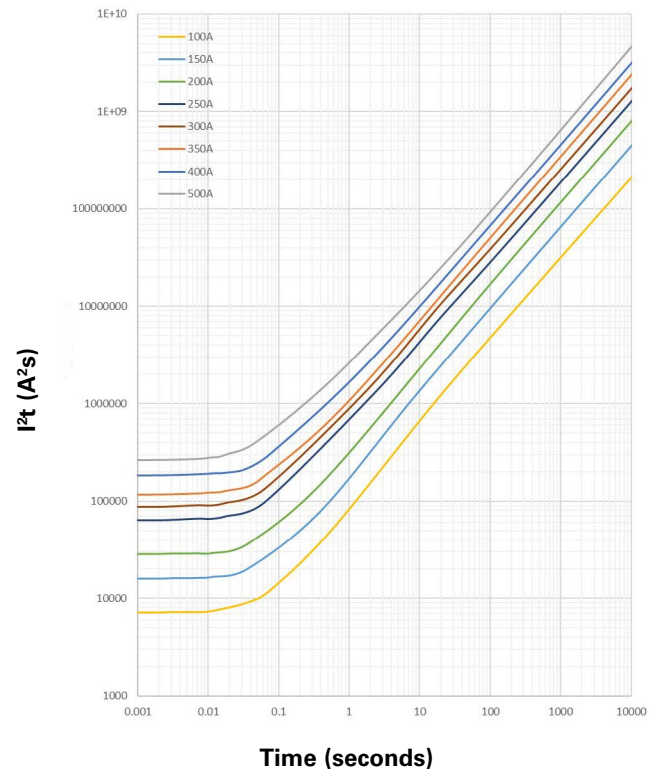
**Temperature derating curve**



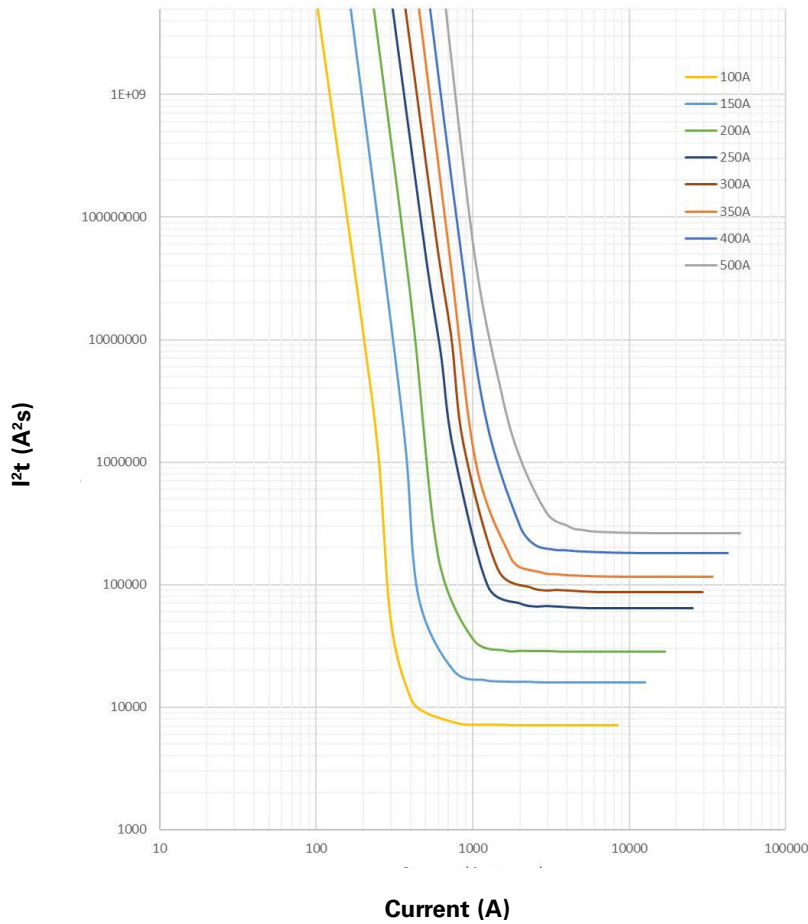
**Current vs. time curve**



**I²t vs. time curve**



**I<sup>2</sup>t vs. current curve**



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