

AMX/AMXL

Automotive bolt in fuse



Product features

- Small size for high current applications
- 63 Vdc/100 Vdc/125 Vdc Voltage rating
- Ceramic body with bolt in terminal design
- UL recognized

Applications

- Mild hybrid automotive
- Vehicle power distribution
- Material handling systems
- All supercapacitor and battery systems
- High current wire protection

Agency information

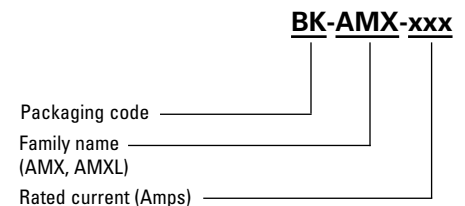
- cURus recognized file: E91958, guide JFHR2 and JFHR8



Environmental compliance



Ordering part number



Packaging code

- BK - 50 parts per tray
- Blank - 1 part per polybag, 10 parts per inner box

Electrical characteristics

Amp rating	1.0 In	3.0 In
80 - 350	4 hours minimum	< 10 seconds

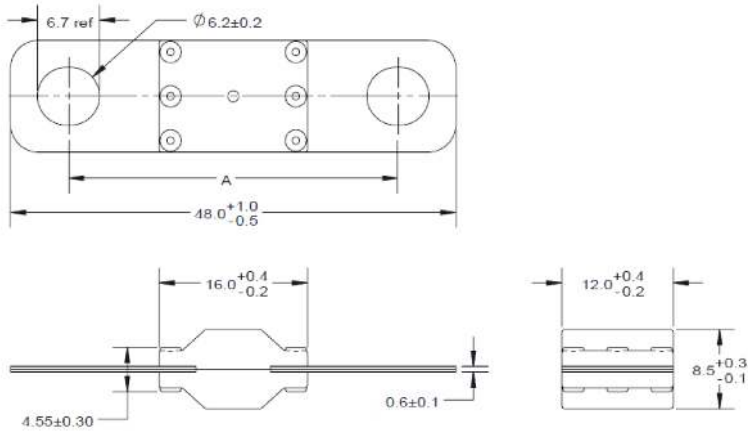
Product specifications

Part number	Rated current (A)	Voltage rating (Vdc)	Breaking capacity ¹	Typical cold resistance (mOhms) ²
AMX(L)-80	80	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.51
AMX(L)-100	100	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.43
AMX(L)-150	150	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.33
AMX(L)-200	200	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.24
AMX(L)-250	250	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.19
AMX(L)-300	300	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.16
AMX(L)-350	350	63/100/125	3 kA @ 125 Vdc	0.13

- *=Self-certified for 63 Vdc/8 kA and 100 Vdc/6 kA Breaking Capacity, TC < 1.5 ms
- Cold resistance is measured at <10% rated current

Dimensions- mm

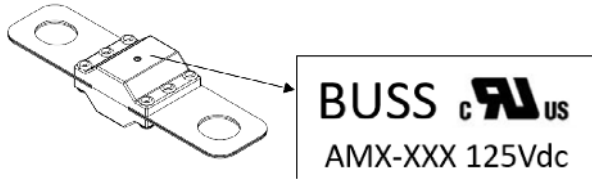
Drawing not to scale



Part number	Dimension A (mm)
AMX-XXX	30.0 +/- 0.3
AMXL-XXX	35.5 +/- 0.3

Recommended torque: M6: 5-5.5N·m
M5: 3.5-4N·m

Marking detail

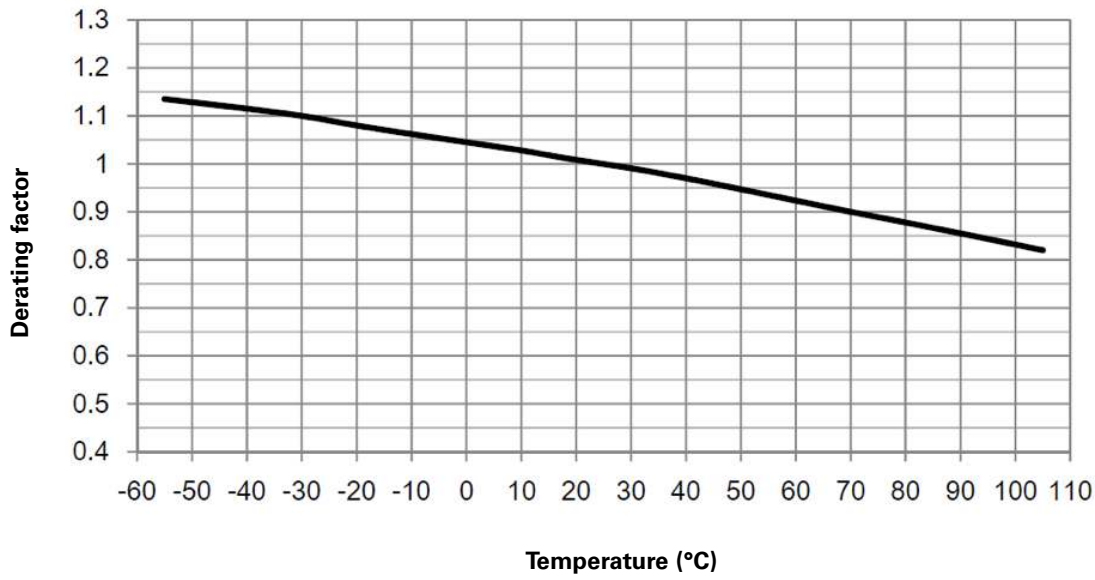


Part number	Marking on body
AMX-80	BUSS cURus AMX-80 125 Vdc
AMX-100	BUSS cURus AMX-100 125 Vdc
AMX-150	BUSS cURus AMX-150 125 Vdc
AMX-200	BUSS cURus AMX-200 125 Vdc
AMX-250	BUSS cURus AMX-250 125 Vdc
AMX-300	BUSS cURus AMX-300 125 Vdc
AMX-350	BUSS cURus AMX-350 125 Vdc
AMXL-80	BUSS cURus AMXL-80 125 Vdc
AMXL-100	BUSS cURus AMXL-100 125 Vdc
AMXL-150	BUSS cURus AMXL-150 125 Vdc
AMXL-200	BUSS cURus AMXL-200 125 Vdc
AMXL-250	BUSS cURus AMXL-250 125 Vdc
AMXL-300	BUSS cURus AMXL-300 125 Vdc
AMXL-350	BUSS cURus AMXL-350 125 Vdc

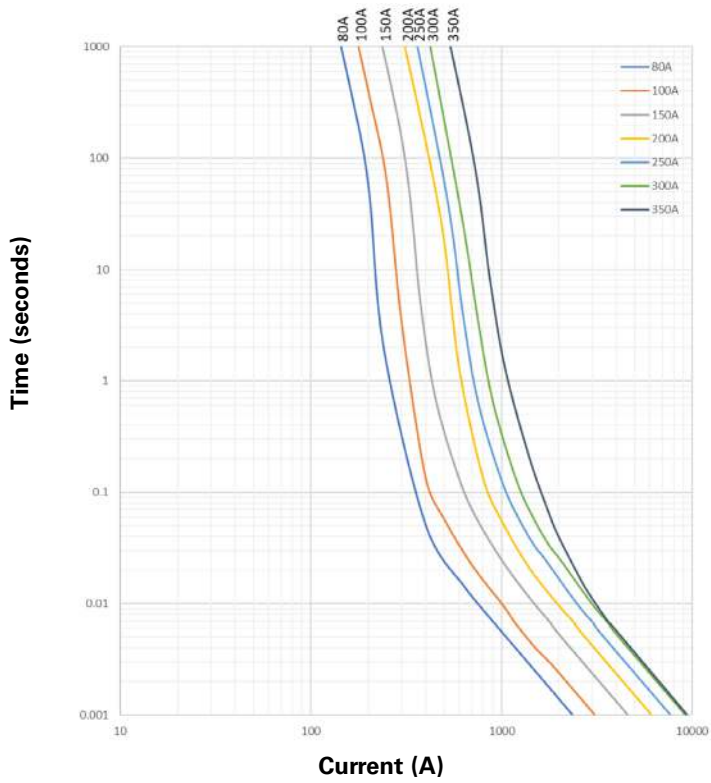
General specifications

Item	Standard/Specification	Conditions	Acceptable value/range
Operating temperature		-40 °C to +105 °C with proper derating	
Strength of terminals	JASO D622 ISO8820-8	M6: 5-5.5N·m; M5: 3.5-4N·m	
Temperature rise	JASO D622 ISO8820-8	0.5 In, 40 min	not exceed 50 K, electrical performance within spec
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/s ² , 3 directions, 8 hrs each.	Resistance change <10%, elec- trical 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

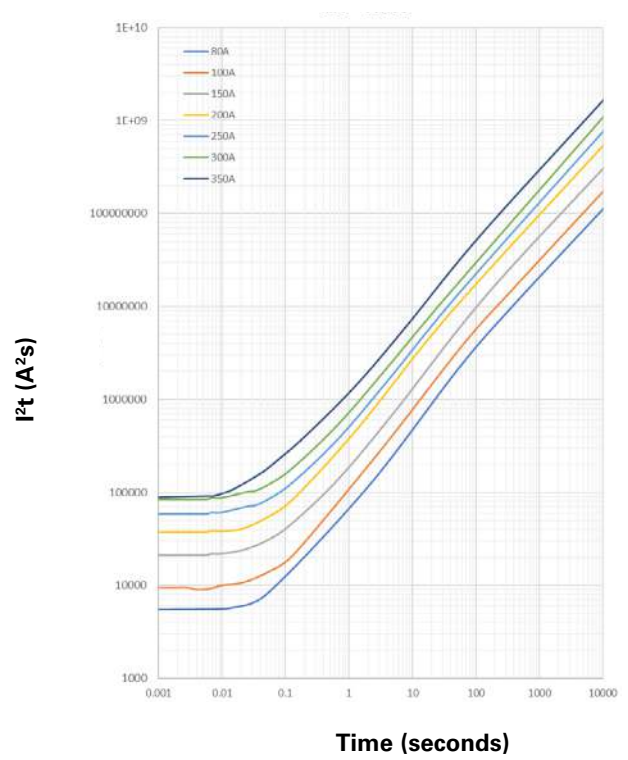
Temperature derating curve



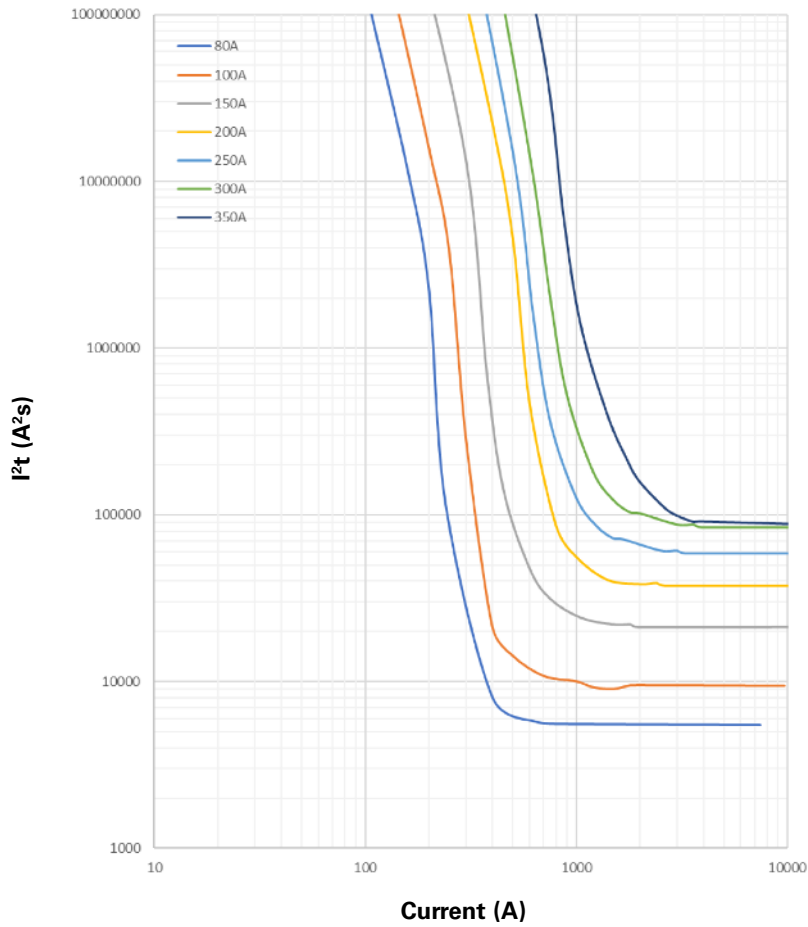
Current vs. time curve



I²T vs. time curve



I²t vs. current curve



Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

Eaton
Electronics Division
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com/electronics

© 2022 Eaton
All Rights Reserved
Printed in USA
Publication No. ELX1218 BU-ELX22078
August 2022

Eaton is a registered trademark.
All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

