AMX/AMXL

Automotive bolt in fuse

Photo is representative

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

BK-AMX-xxx

- Packaging code
- Family name (AMX, AMXL)
- Rated current (Amps)

Packaging code

BK - 50 parts per tray

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

Powering Business Worldwide

Electrical characteristics

Amp rating	1.0 In	3.0 In
50 - 350	4 hours minimum	< 10 seconds

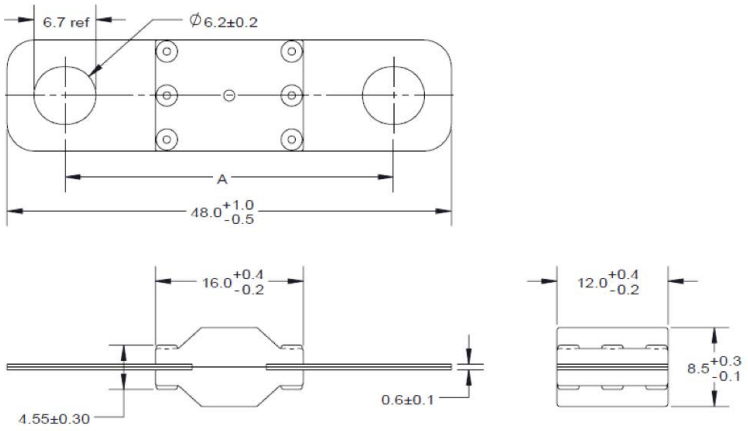
Product specifications

Part number	Rated current (A)	Voltage rating (Vdc)	Breaking capacity[1]	Typical cold resistance (mOhms)[2]
AMX(L)-50	50	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.92
AMX(L)-60	60	63/100/125	8 kA @ 63 Vdc* 6 KA @ 100 Vdc* 3 kA @ 125 Vdc	0.73
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

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

Dimensions- mm

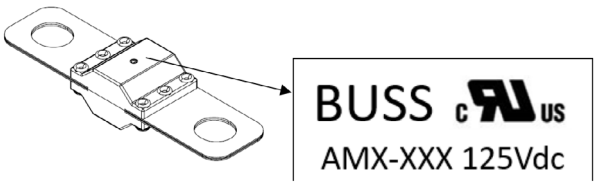
Drawing not to scale



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

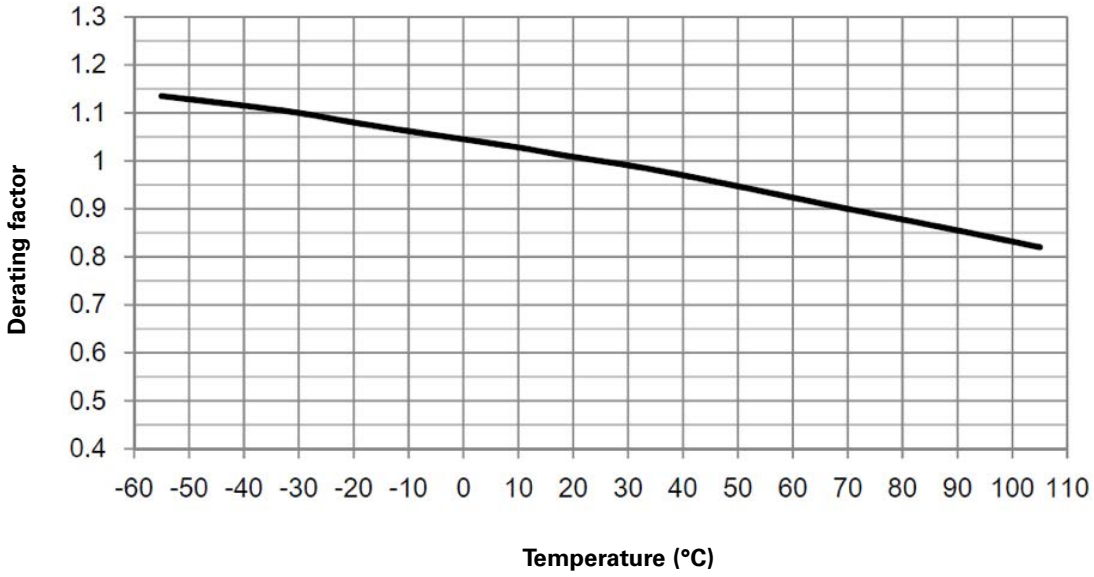


Part number	Marking on body
AMX-50	BUSS cURus AMX-50 125 Vdc
AMX-60	BUSS cURus AMX-60 125 Vdc
AMX-80	BUSS cURus AMX-80 125 Vdc
AMX-100	BUSS cURus AMX-100 125 Vdc
AMX-150	BUSS cURus AMX-150 125 Vdc
AMX-200	BUSS cURus AMX-200 125 Vdc
AMX-250	BUSS cURus AMX-250 125 Vdc
AMX-300	BUSS cURus AMX-300 125 Vdc
AMX-350	BUSS cURus AMX-350 125 Vdc
AMXL-50	BUSS cURus AMX-50 125 Vdc
AMXL-60	BUSS cURus AMX-60 125 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

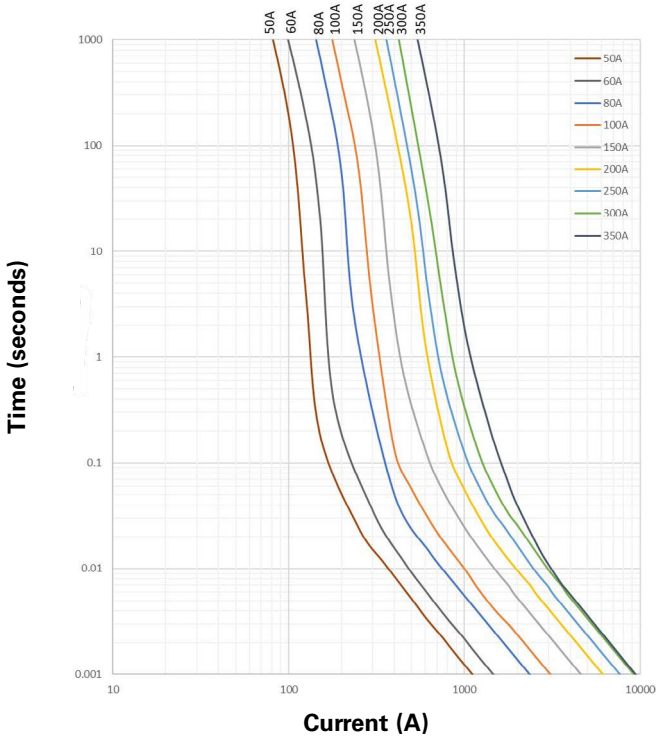
General specifications

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/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

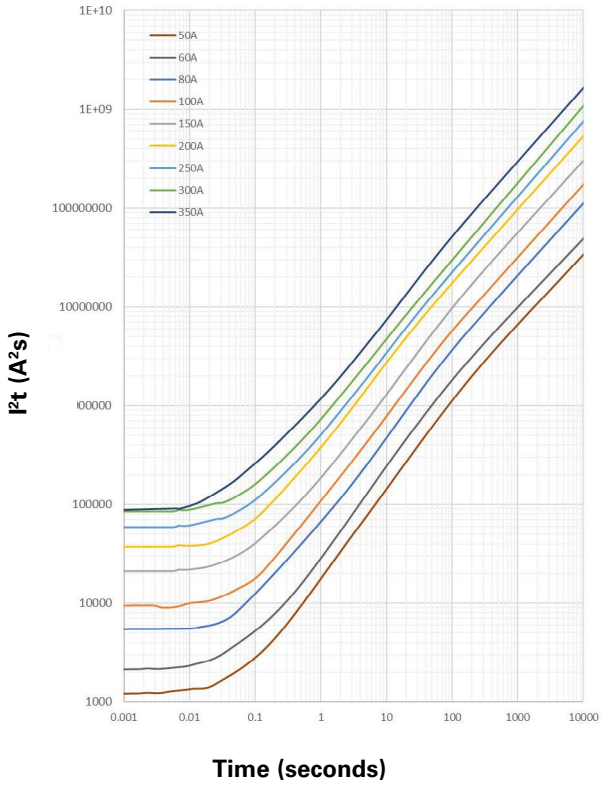
Temperature derating curve



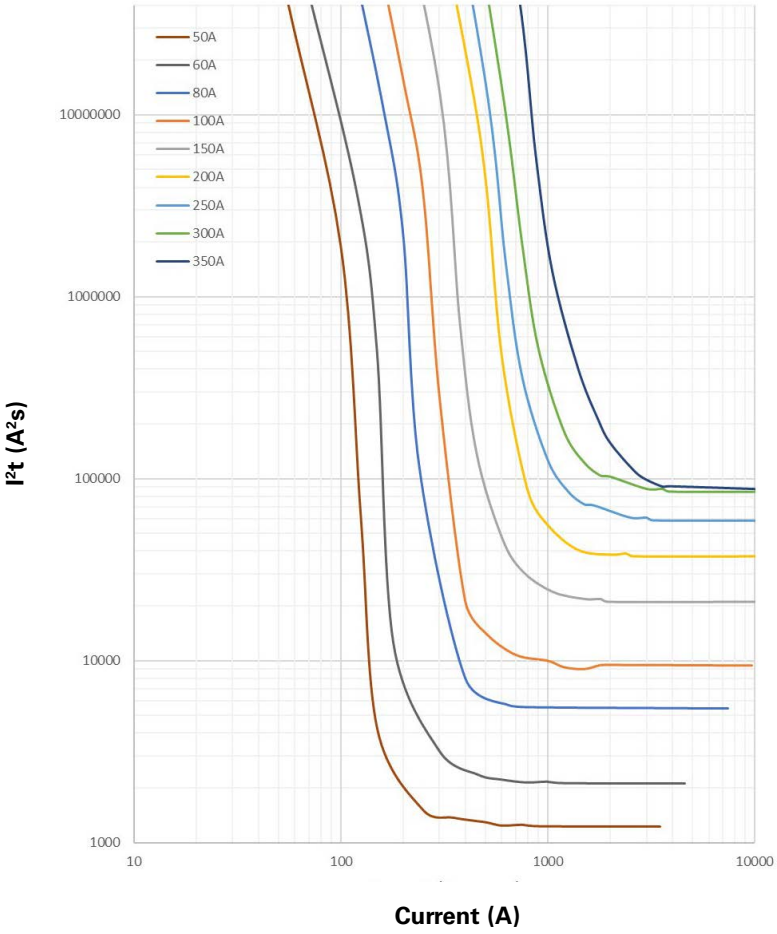
Current vs. time curve



I²T vs. time curve



I²t vs. current curve



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