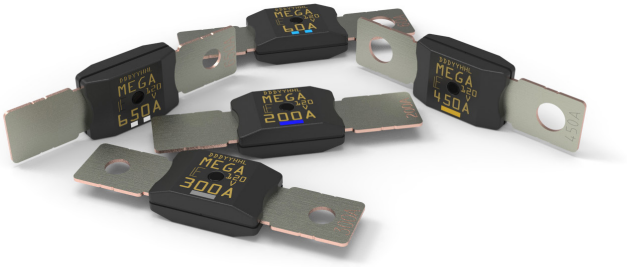
MEGA® High Performance Fuses

Rated 120 V-SF56

RoHS



Specifications

Voltage Rating:	120 V dc
Interrupting Rating:	2500 A @ 120 V dc
Recommended Environmental Temperature:	–40 °C to +125 °C
Terminals Material:	Silver-plated copper alloy
Housing Material:	PPA-GF33 (UL 94 Flammability rating of HB)
Net Weight per Fuse:	12.1 g ± 15 %
Mounting Torque M6	9 Nm ± 1 Nm
Mounting Torque M8	20 Nm ± 1 Nm
Comply With:	ISO 20934 – Type SF56

Description

MEGA® 120 V High Performance automotive fuses employ diffusion pill technology to provide predictable time-delay circuit protection. These MEGA fuses are ideal for protecting batteries, alternators, and heavy gauge wire harnesses that experience large inrushes of current. Use the 450 A and 650 A fuses only for short circuit protection.

Features & Benefits

- High-contrast ampere rating stamp on housing aids indentification
- 56 mm pitch prevents mistaken replacement with other types of high-current fuses
- Available with two, one, or no mounting holes

Applications

- Cars
- Trucks
- SUVs
- Offroad vehicles
- Buses
- Watercraft as approved by Littelfuse®

Ordering Information

Part Number	Current Rating (A)	Package Size	Bolt Size	Bolt Hole Qty
0888xxx.U-2M8	60–500	500	M8	2
0888xxx.U-1M8	60–500	500	M8	1
0888xxx.U-2M6	60–500	500	M6	2
0888xxx.U-1M6	60–500	500	M6	1
0888xxx.U-NH	60–500	500	N/A	0

Revised: 10/26/2022

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Ratings

Part Number	Current Rating (A)	Color Code	Test Cable Size (mm^2)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	I^2t (A^2s)
0888060._	60		6	75.5	0.92	27 800
0888200._	200		35	76.9	0.25	129 600
0888250._	250		50	66	0.18	223 200
0888300._	300		50	46.9[2]	0.15	434 000
0888450._	450[1]		70	52.9[2]	0.10	1 579 000
0888650._	650[1]		95	53.7[2]	0.07	5 262 500

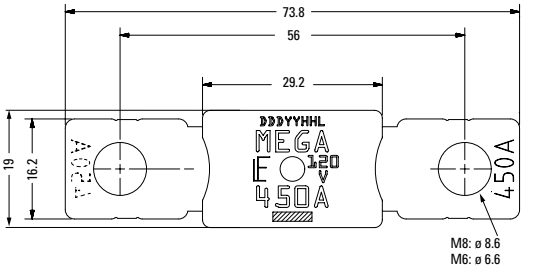
Note 1: Short circuit protector only
Note 2: Voltage drop measurements taken at 75 % of rated current.

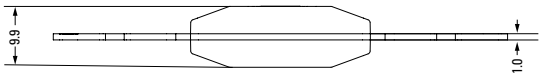
The typical I^2t is an average value calculated from the breaking capacity tests by using the melting time before arcing occurs.

Dimensions

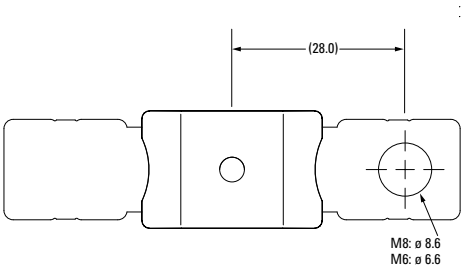
Dimensions in mm for reference only.
See outline drawing for dimensions and tolerances.

MEGA 2 Holes M8/M6

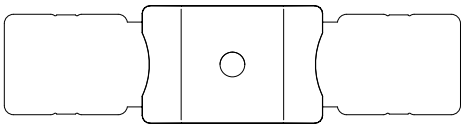




MEGA 1 Hole M8/M6



MEGA No-Holes Version



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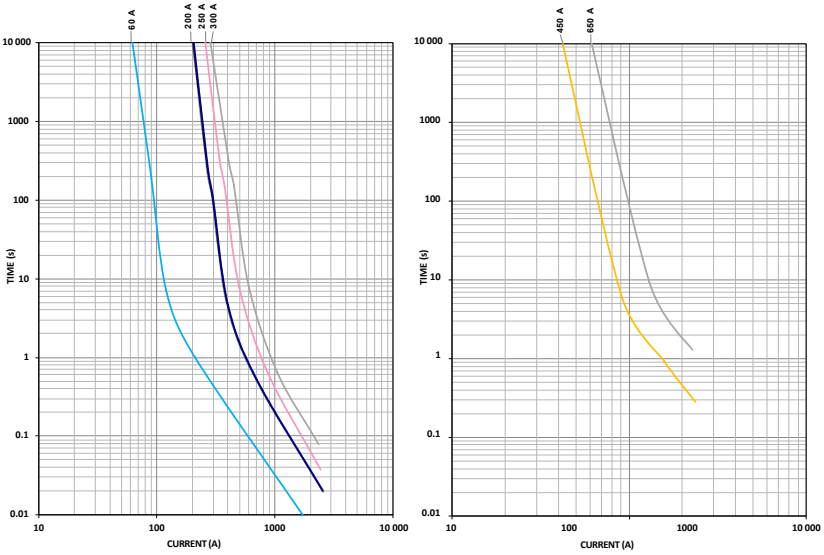
Time-Current Characteristic Curves



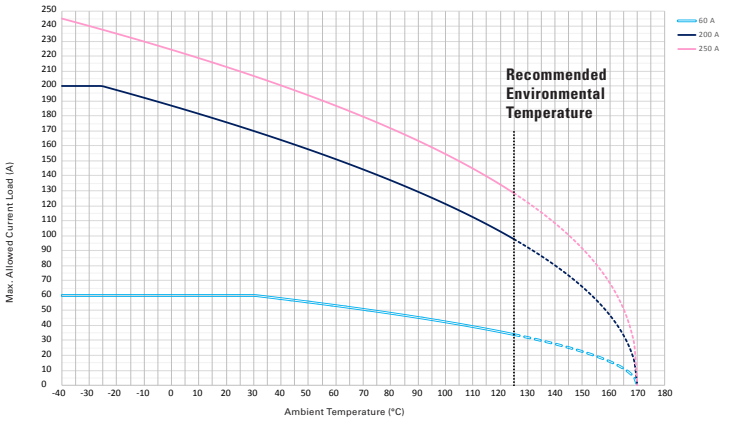
Time-Current Characteristics

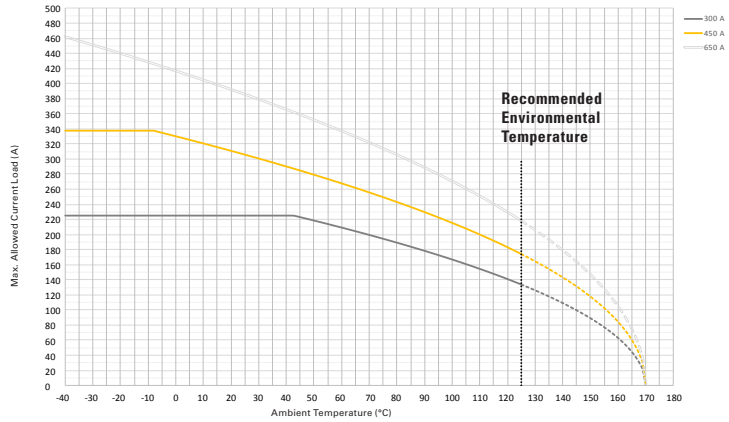
% of Rating	Opening Time Min / Max (s)		
	60–250 A	300 A	450–650 A
75	-/-	14 400 / ∞	14 400 / ∞
100	14 400 / ∞	-/-	-/-
135	120 / 1800	120 / 1800	-/-
150	20 / 450	20 / 450	-/-
200	1 / 15	1 / 15	1 / 15
350	0.3 / 5	0.3 / 5	0.5 / 5
600*	0.1 / 1	0.1 / 1	0.1 / 1

* Not applicable for 650 A.

Typical Derating of Fuse Melting Element

Temperature security margin is 20 %.
Please contact Littelfuse for details regarding derating test setup.





Derating curves may change depending on the final condition of the application (terminals' characteristics, wire size, etc.). Please ask Littelfuse for more information.

Temperature Table

	Max. allowed current load (A) at ambient temperature (typical derating)						
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
60 A	60	60	60	52	47	39	34
200 A	200	187	176	148	133	112	98
250 A	245	224	213	183	168	145	128
300 A	225	225	225	204	184	154	134
450 A	338	330	311	262	236	200	174
650 A	462	417	392	330	297	251	218