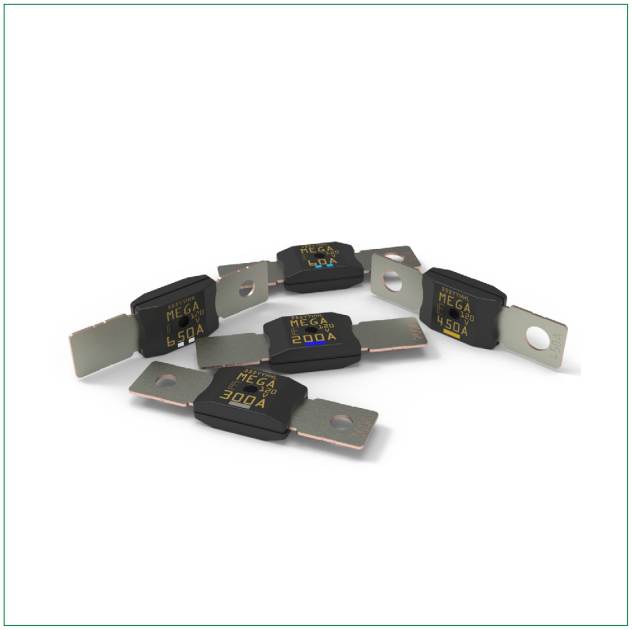
MEGA® High Performance Series

Bolt-down Fuses – Rated 120 V-SF56

RoHS



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. The sylicon insert allows an open state resistance higher than 1 Mohm when fuses blow.

Use the 450 A and 650 A fuses nly for short circuit protection.

Features & Benefits

- 1 Mohm open state resistance at 120 V
- High-contrast color coding on housing aids identification
- 56 mm pitch prevents mistaken replacement with other types of high-current fuses
- High tightening torque resistance
- Available with two, one, or no mounting holes
- Comply with ISO 20934 - Type SF56

Additional Information

Resources

Samples

Applications

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

See Disclaimer Notice

Specifications

Voltage Rating:	120 V DC
Interrupting Rating:	2500 A @ 120 V DC
Recommended Environmental Temperature:	–40 ˚C to +125 ˚C
Terminals Material:	Tin-plated copper alloy
Housing Material:	PPA-GF33 (UL 94 Flammability rating of HB)
Typical Weight per Fuse:	12.1 g
Mounting Torque M6:	9 Nm ± 1 Nm
Mounting Torque M8:	12 Nm ± 1 Nm
Comply With:	ISO 20934 - Type SF56
Open State Resistance (OSR):	> 1 Mohm (after fuse opening) at 120 V

Revised: 06/28/2024

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Ordering Information

Part Number	Current Rating (A)	Bolt Size	Bolt Hole Qty.	Package Size
0888xxx.UX-2M8	60 - 500	M8	2	500
0888xxx.UX-1M8	60 - 500	M8	1	500
0888xxx.UX-2M6	60 - 500	M6	2	500
0888xxx.UX-1M6	60 - 500	M6	1	500
0888xxx.UX-NH	60 - 500	-	-	500

Ratings

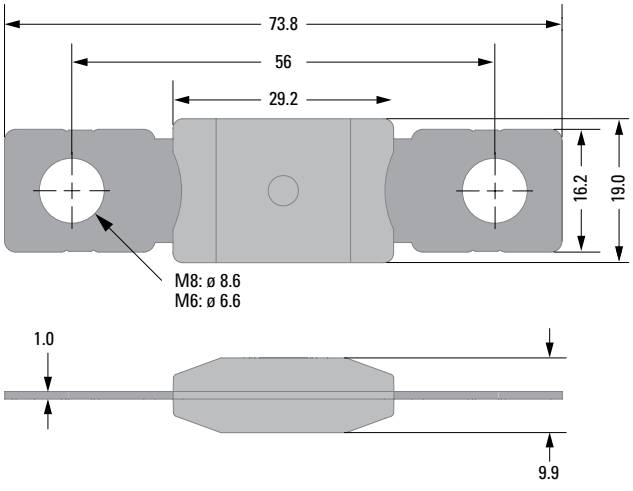
Part Number	Current Rating (A)	Font Color	Test Cable Size (mm^2)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I^2t (A^2s)
0888060._	60		6	75.5	0.92	27 800
0888200._	200		35	76.9	0.25	129 600
0888250._	250		50	66	0.18	223 200
0888300._	300		50	46.9 [2]	0.15	434 000
0888450._	450 [1]		70	52.9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

1 Short Circuit Protector only
2 Voltage Drop measurements for short circuit protectors taken at 75% of rated current.
Note: The typical I^2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

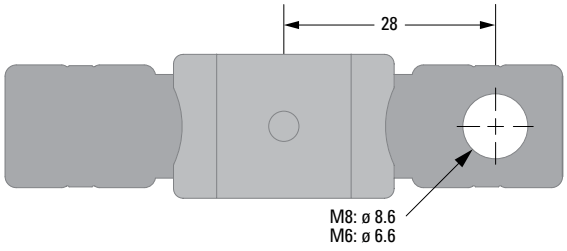
Dimensions

Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.

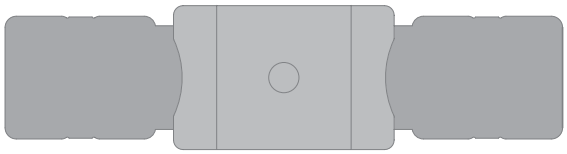
MEGA 2-Holes version (M8/ M6)



MEGA 1-Hole version (M8/M6)



MEGA No-Holes version



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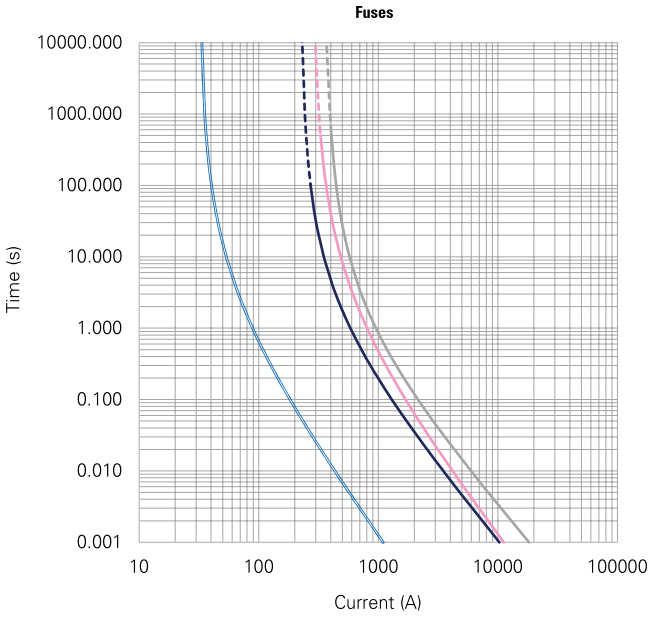
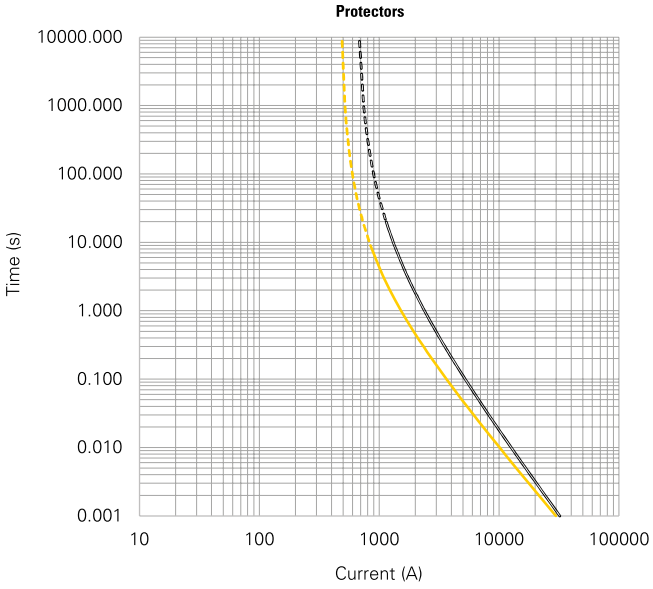
Time-Current Characteristic



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

60 A
200 A
250 A
300 A

Note: Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc..). Please contact Littelfuse® for more information.



% of Rating	Opening Time Min. / Max. (s)
	350 - 500 A
75	14 400 / -
100	- / -
135	- / -
150	- / -
200	1 / 15
350	0.5 / 5
600	0.1 / 1

450 A
650 A

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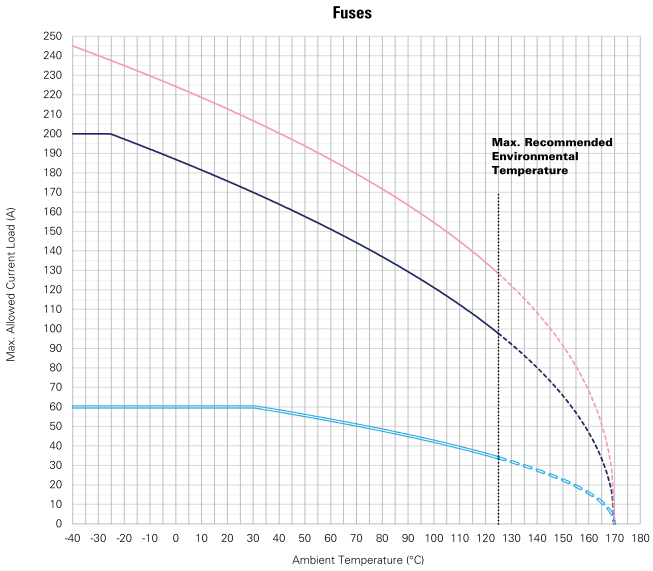
Typical Derating Curves

Temperature security margin is 20%.

Please contact Littelfuse® for Details Regarding Derating Test Set Up.



	Max. allowed current load (A) at ambient temperature based on typical derating						
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
60A	60	60	60	52	47	39	34
200A	200	187	176	148	133	112	98
250A	245	224	213	183	168	145	128
300A	225	225	225	204	184	154	134

60 A
200 A
250 A

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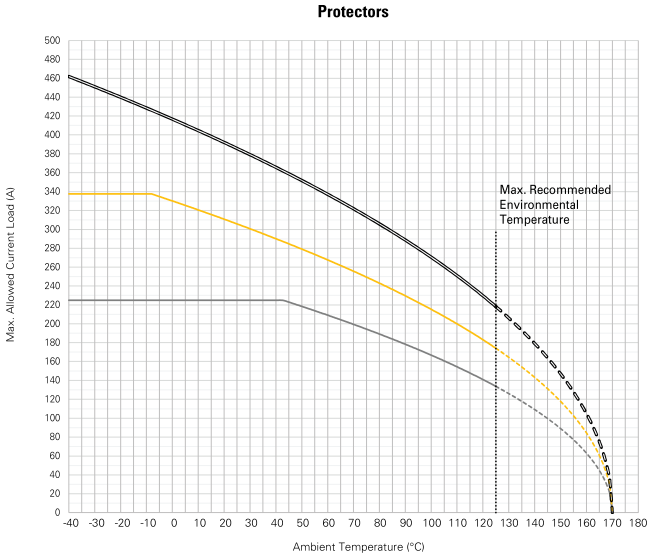

	Max. allowed current load (A) at ambient temperature based on typical derating						
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
300A	225	225	225	204	184	154	134
450A	338	330	330	262	236	200	174
650A	462	417	417	330	297	251	218

300 A
450 A
650 A

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