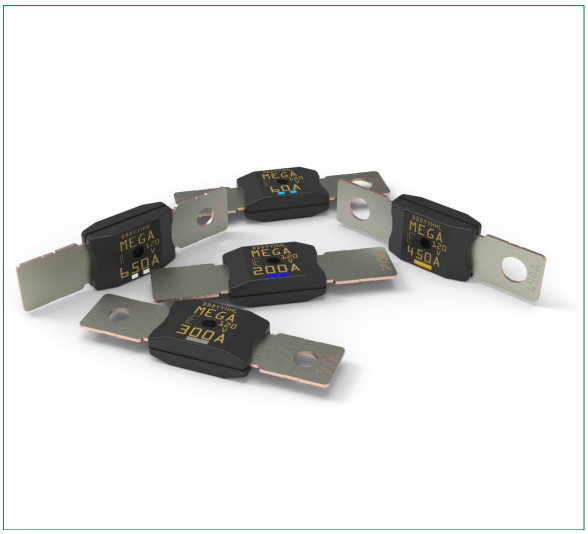
MEGA® High Performance Fuses

Rated 120 V-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. The sylicon insert allows an open state resistance higher than 240 kohm when fuses blow.
Use fuse ratings above 300 A only for short circuit protection.

Features & Benefits

- > 240 kohm open state resistance at 120 V
- High-contrast color coding on housing aids identification
- High tightening torque resistance
- Available with two, one, or no mounting holes
- 56 mm pitch prevents mistaken replacement with other types of high-current fuses

Additional Information

Resources

Applications

- Cars / SUVs
- Trucks
- Power Tools
- 2/3 wheelers
- 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)
Open State Resistance (OSR):	> 240 kohm (after fuse opening) at 120 V
Typical Weight per Fuse:	12.1 g
Mounting Torque M6:	9 Nm ± 1 Nm
Mounting Torque M8:	20 Nm ± 1 Nm
Refer to:	ISO 20934 - Type SF56

©2024 Littelfuse, Inc.
Specifications are subject to change without notice.
Revised: 01/30/2024

MEGA® High Performance Fuses

Rated 120 V-SF56

Ordering Information

Part Number	Current Rating (A)	Package Size	Bolt Size	Bolt Hole Qty
0888xxx.U-2M8	60 – 650	500	M8	2
0888xxx.U-1M8	60 – 650	500	M8	1
0888xxx.U-2M6	60 – 650	500	M6	2
0888xxx.U-1M6	60 – 650	500	M6	1
0888xxx.U-NH	60 – 650	500	-	0

Ratings

Part Number	Current Rating (A)	Color Coding	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
0888080._	80		10	78.1	0.74	33 200
0888100._	100		10	73.8	0.47	21 500
0888125._	125		16	68.4	0.37	37 000
0888150._	150		25	71.5	0.32	60 100
0888175._	175		25	70.5	0.27	91 900
0888200._	200		35	76.9	0.25	129 600
0888225._	225		35	79.9	0.21	149 000
0888250._	250		50	66.0	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
0888500._	500[1]		70	69.7[2]	0.09	2 225 100
0888650._	650[1]		95	53.7[2]	0.07	5 262 500

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

1: Short Circuit protectors
2: Voltage drop measurement taken at 75% of rated current

©2024 Littelfuse, Inc.
Specifications are subject to change without notice.

Revised: 01/30/2024

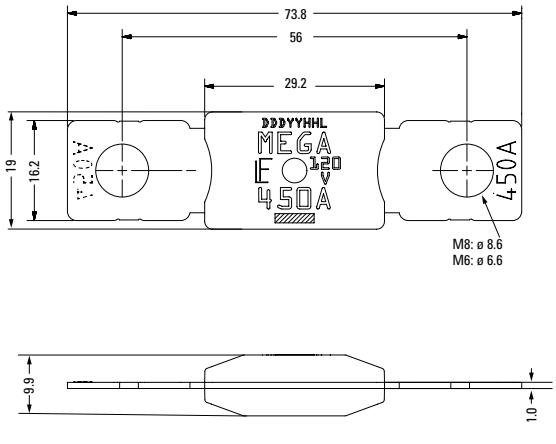
MEGA® High Performance Fuses

Rated 120 V-SF56

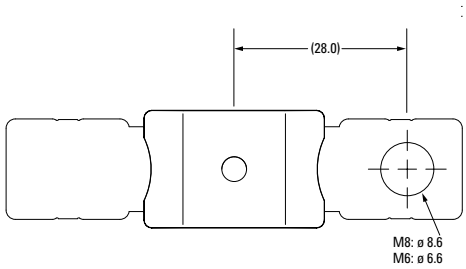
Dimensions

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

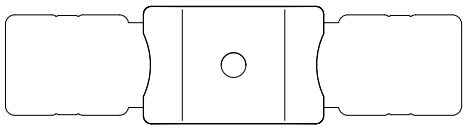
MEGA 2-Holes version (M8/ M6)



MEGA 1-Hole version (M8/M6)



MEGA No-Holes version



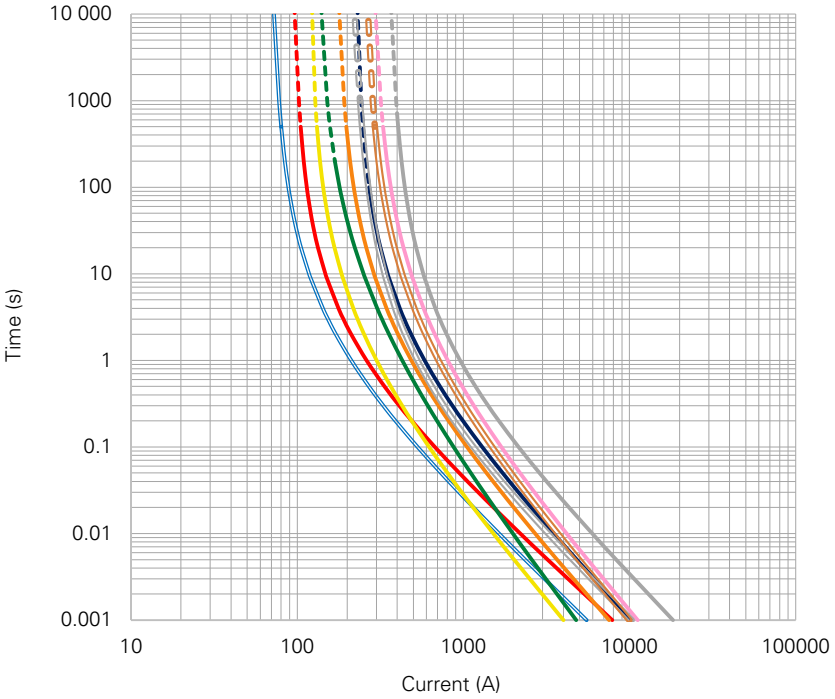
©2024 Littelfuse, Inc.
Specifications are subject to change without notice.
Revised: 01/30/2024

MEGA® High Performance Fuses

Rated 120 V-SF56

Time-Current Characteristic

Fuses

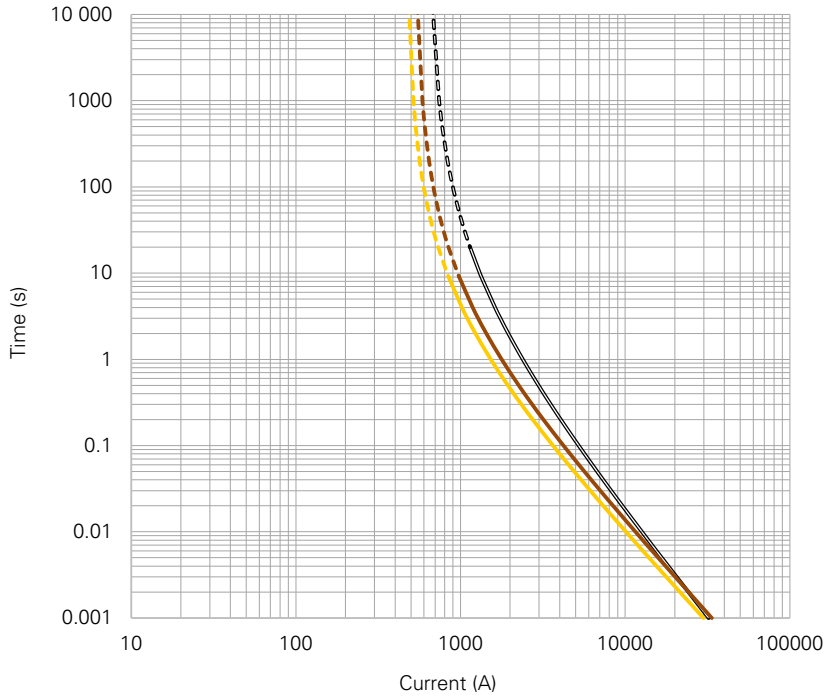


% of Rating	Fuses Opening Time Min. / Max. (s)	
	60–250 A	300 A
75	-/-	14 400 / -
100	14 400 / -	-/-
135	120 / 1800	120 / 1800
150	20 / 450	20 / 450
200	1 / 15	1 / 15
350	0.3 / 5	0.3 / 5
600	0.1 / 1	0.1 / 1

60 A, 80 A, 100 A, 125 A, 150 A, 175 A, 200 A, 225 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.

Protectors



% of Rating	Protectors Opening Time Min. / Max. (s)	
	450-500 A	650 A
75	14 400 / -	14 400 / -
100	-/-	-/-
135	-/-	-/-
150	-/-	-/-
200	1 / 15	1 / 15
350	0.5 / 5	0.5 / 5
600	0.1 / 1	-/-

450 A, 500 A, 650 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.

©2024 Littelfuse, Inc.
Specifications are subject to change without notice.

Revised: 01/30/2024

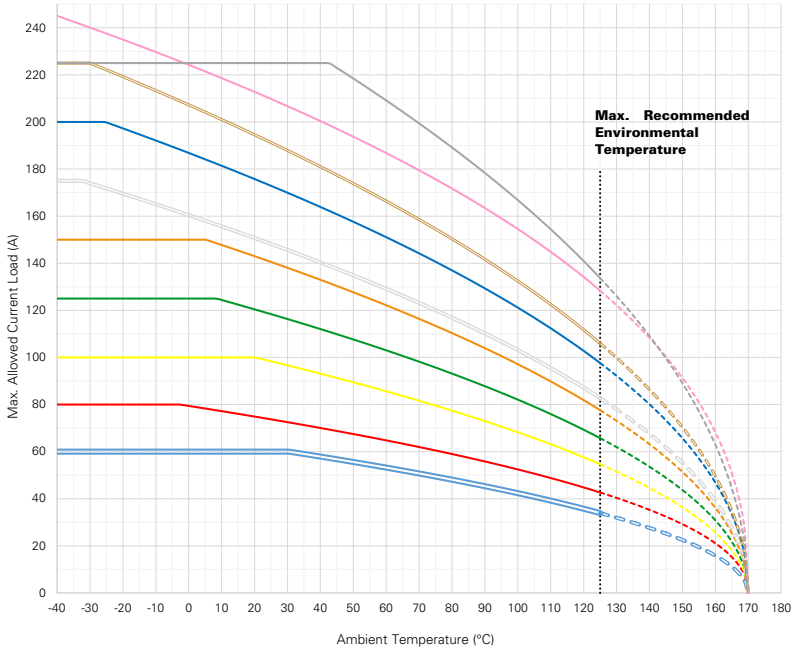
MEGA® High Performance Fuses

Rated 120 V-SF56

Typical Derating Curves

Please contact Littelfuse® for Details Regarding Rerating Test Set Up

Fuses

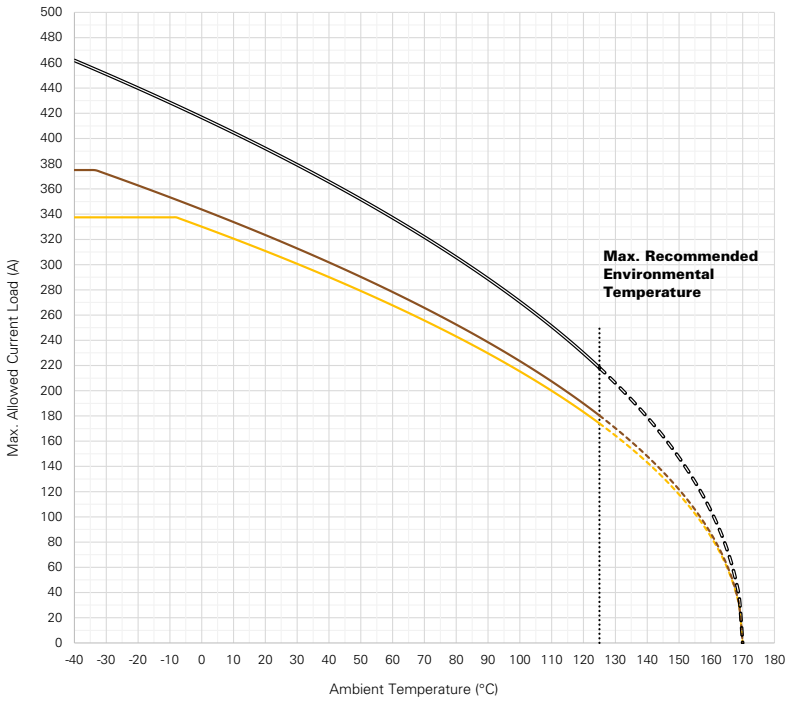


	Max. allowed current load (A) at ambient temperature based on typical derating						
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
60 A	60	60	60	52	47	39	34
80 A	80	79	75	63	57	49	43
100 A	100	100	100	84	75	63	55
125 A	125	125	120	101	90	76	66
150 A	150	150	143	119	107	90	78
175 A	175	160	151	126	114	95	83
200 A	200	187	176	148	133	112	98
225 A	225	207	195	163	146	123	106
250 A	245	224	213	183	168	145	128
300 A	225	225	225	204	184	154	134

60 A, 80 A, 100 A, 125 A, 150 A, 175 A, 200 A, 225 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.

Protectors



	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
450 A	338	330	311	262	236	200	174
500 A	375	344	323	272	246	207	180
650 A	462	417	392	330	297	251	218

450 A, 500 A, 650 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.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at https://www.littelfuse.com/legal/disclaimers/product-disclaimer.aspx

©2024 Littelfuse, Inc.
Specifications are subject to change without notice.