



MEGA® 120V HP Fuse-SF56

## MEGA® High Performance Fuse Rated 120V-SF56

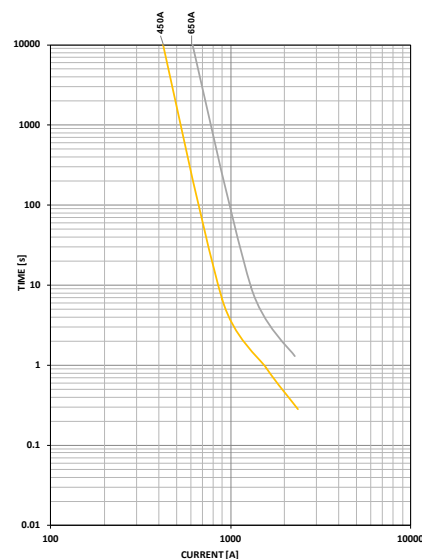
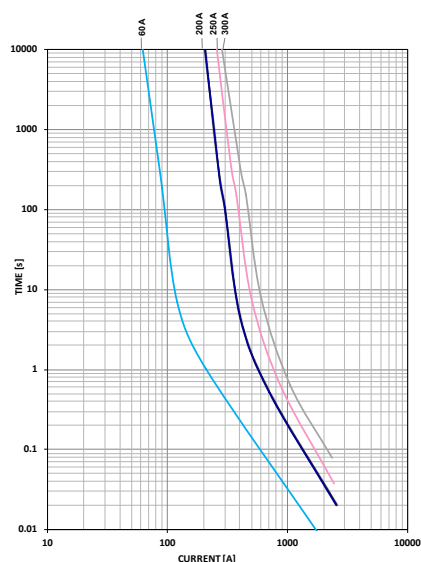
The MEGA® 120V-SF56 High Performance (HP) Fuse is designed for high current circuit protection up to **650A** with "Diffusion Pill Technology." The MEGA® 120V HP Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection. The bigger pitch of 56mm serves as a mechanical coding feature to avoid standard SF51 fuses being mounted.

### Specifications

Voltage Rating:	120 VDC
Interrupting Rating:	2500A @ 120 VDC
Recommended Environmental Temperature:	-40°C to + 125°C
Terminals Material:	Tin Plated Copper Alloy
Housing Material:	PPA-GF33 (U.L. 94 Flammability rating - HB)
Net Weight Per Fuse:	12.1±15% gr
Mounting Torque M6:	9Nm+/-1Nm
Mounting Torque M8:	20Nm+/-1Nm
Refers to:	ISO 20934 – Type SF56



### Time-Current Characteristic Curves



### Ordering Information

Part Number	Rating	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	N/A	0

### Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)		
	60A - 250A	300A	450A - 650A
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 650A.

### Ratings

Part Number	Current Rating (A)	Color Code	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I²t (A²s)
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	46.9²	0.15	434,000
0888450._	450¹	■	70	52.9²	0.10	1,579,000
0888650._	650¹	□ □	95	53.7²	0.07	5,262,500

Note 1: Short Circuit Protector only

Note 2: Voltage Drop measurements taken at 75% of rated current.

The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

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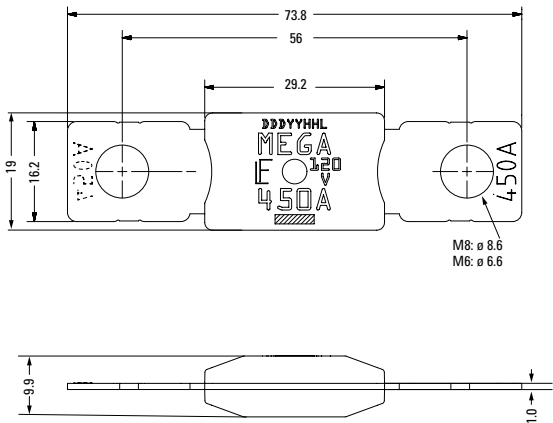
# High Current Fuses

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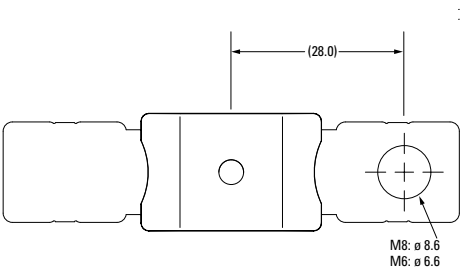
### Dimensions

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

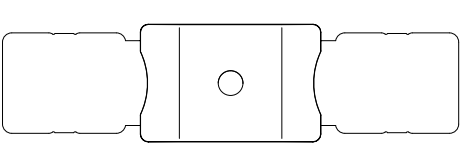
#### MEGA 2 Holes M8/M6 versions



#### MEGA 1 Hole M8/M6 versions

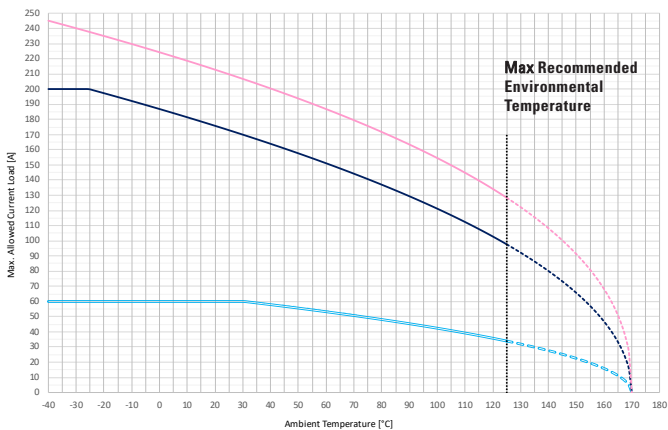


#### MEGA No-Holes Version



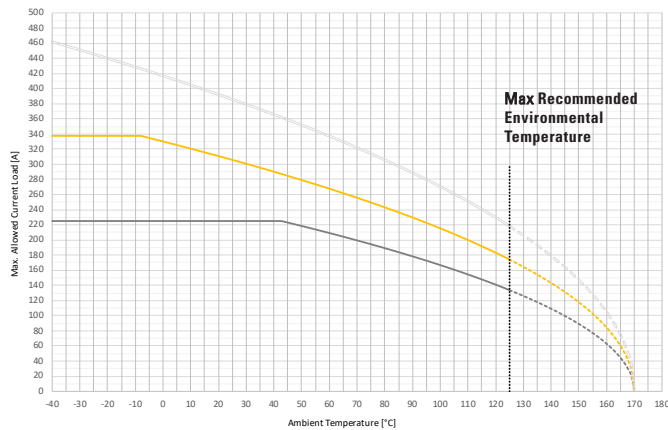
### Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%  
Please Contact Littelfuse® For Details Regarding Derating Test Set Up.



### 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
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
450A	338	330	311	262	236	200	174
650A	462	417	392	330	297	251	218



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

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