

MEGA® High Breaking Capacity

Rated 60 V-SF51

RoHS



Description

MEGA® High Breaking Capacity SF51 fuses were developed specifically to provide overcurrent and short circuit protection to circuits for 48 V batteries. The fuses can withstand large inrushes of current and short circuit currents up to 5 kA at 60 V dc. These capabilities make the fuses a perfect fit for many applications where ultra-high current protection is needed.

Features & Benefits

- Rated at 60 V DC
- Interrupting rating of 5 kA at 60 V DC
- Tin-plated copper alloy terminals
- Operate from -40 °C to +85 °C
- M6 mounting torque of 9 Nm ±1 Nm (ISO prescription)
- M8 mounting torque of 20 Nm ±1 Nm (ISO prescription)
- Typical weight of 13 g
- Refer to ISO 20934 – Type SF51
- Available with two, one, or no mounting holes
- High-contrast ampere rating stamp on housings aid identification
- Date codes are optimized for OCR reading by digital camera

Applications

- Cars and SUVs
- Trucks
- Buses
- Offroad vehicles
- Watercraft

Ratings

Part Number	Current Rating (A)	Wire Size (mm ²)	Typ. Voltage Drop at 75% I _r (mV)	Typ. Cold Resistance (mΩ)	Typ. Melting I ² t (A ² s)
0878450.UX-XXX	450	35	60	0.105	810 492

Ordering Information

Part Number	Rating	Package Qty	Bolt Size	Bolt Hole Qty
0878450.UX-NH	450A	400	N/A	0
0878450.UX-2M8	450A	400	M8	2
0878450.UX-1M8	450A	400	M8	1
0878450.UX-2M6	450A	400	M6	2
0878450.UX-1M6	450A	400	M6	1

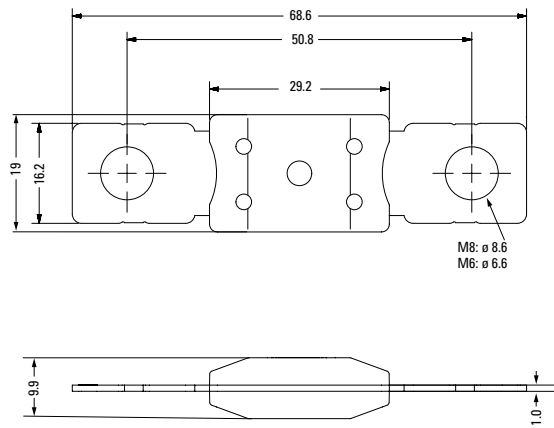
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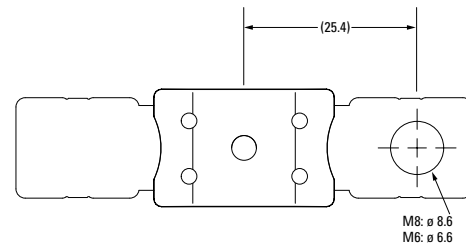
Dimensions

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

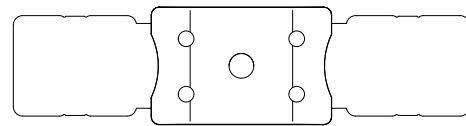
2 Holes M8/M6



1 Hole M8/M6



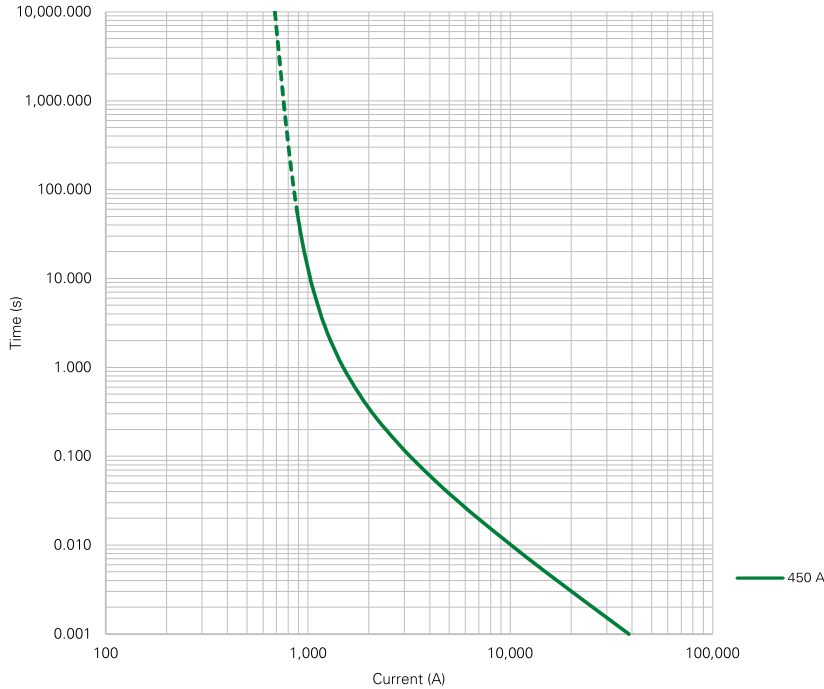
No-Holes Version



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Time-Current Characteristic



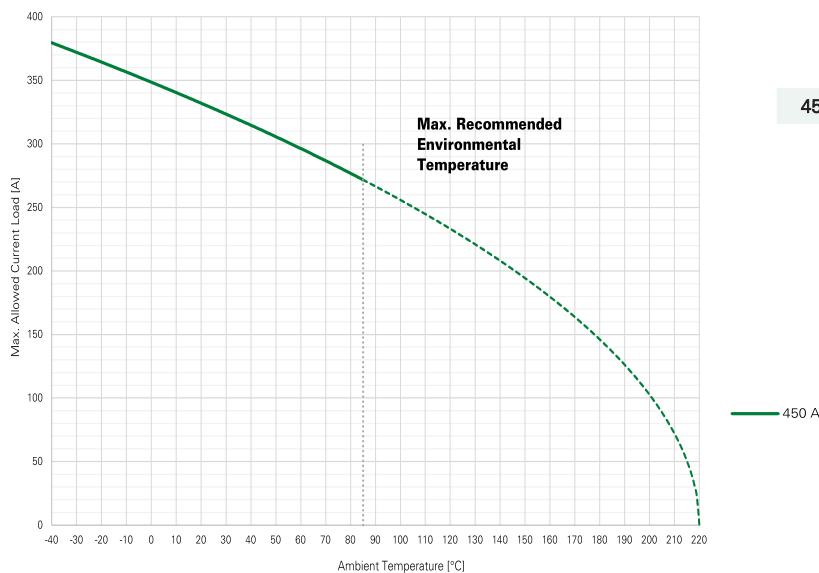
IR (%)	Opening Time (s)	
	Typical	Max.
450 A		
200	28.5	35
211	13.8	18
222	7.85	9.5
333	0.99	1.2
444	0.51	0.65
778	0.07	0.09
1111	0.04	0.045

* Average current during short circuit tests.
Peak current above 5000 A.

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

Typical Derating Curves

Please contact Littelfuse[®] for Details Regarding Derating Test Set Up



	Max. allowed current load (A) according to typical derating					
	-40 °C	-20 °C	0 °C	20 °C	65 °C	85 °C
450 A	380	360	350	330	290	270

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