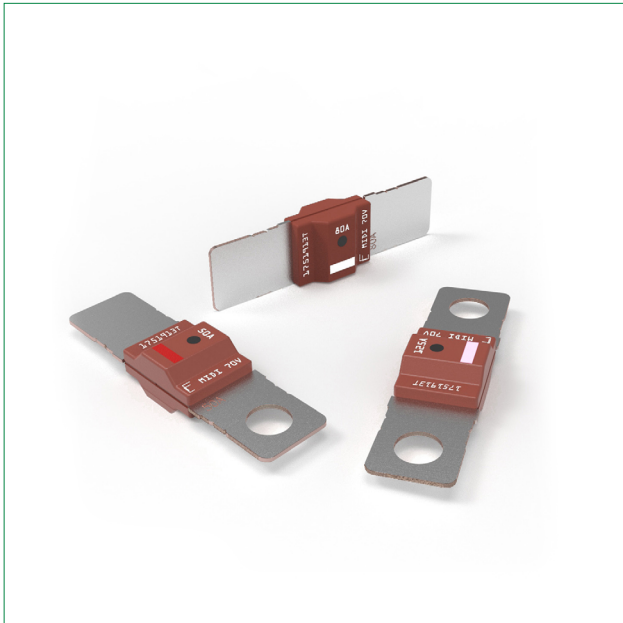


# MIDI High Performance Series

## Bolt-down Fuses – Rated 70V-SF36



### Description

MIDI® High Performance 120V automotive fuses protect circuits that receive large inrushes of current, such as those for fans, heaters, batteries, and starters. Silicon inserts ensure these fuses offer more than 1 Mohm of resistance in their open state. Like all bolt-down MIDI fuses, these employ diffusion pill technology to offer predictable time-delayed performance.

### Features & Benefits

- 1 Mohm open state resistance
- High-contrast color coding on housing aids identification
- High tightening torque resistance
- Available with two, one, or no mounting holes
- Recognized as UL 248-1 Special Purpose Fuses (at 120V DC File E71611) and Directive 2011/65/EU
- Refers to ISO 20934 – Type SF36

### Applications

- Cars / SUVs
- Trucks
- Offroad vehicles
- Power Tools
- 2/3 wheelers
- Buses
- Watercraft as approved by Littelfuse®

### Agency Approvals

Agency	Agency File Number	Current Rating (A)
	ULUS-L71611-295-03219102-3	30 A - 200 A

### Additional Information



Resources



Samples

[See Disclaimer Notice](#)

### Specifications

<b>Voltage Rating:</b>	120 V DC
<b>Interrupting Rating:</b>	2500 A @ 120 V DC
<b>Recommended Environmental Temperature:</b>	-40 °C to +125 °C
<b>Terminals Material:</b>	Tin-plated copper alloy
<b>Housing Material:</b>	PA66-GF25 FR (UL 94 Flammability rating of V-0)
<b>Open State Resistance (OSR):</b>	> 1 Mohm (after fuse opening)
<b>Mounting Torque M6:</b>	9 Nm +/- 1Nm
<b>Typical Weight per Fuse:</b>	3.5 g
<b>Refers To:</b>	ISO 20934 – Type SF36. Fuse ratings 150 A, 175 A and 200 A deviate from ISO standard (current cycles and current steps not applicable).
<b>Comply With:</b>	Standard UL 248-1 as a Special Purpose Fuse in UL File E71611 and Directive 2011/65/EU.












# MIDI High Performance Series

## Bolt-down Fuses – Rated 70V-SF36

### Ordering Information

Part Number	Current Rating (A)	Bolt Size	Bolt Qty.	Package Size
4998xxx.M-M6	30 – 200	M6	2	500
4998xxx.M1M6	30 – 200	M6	1	500
4998xxx.M-NH	30 – 200	-	0	500

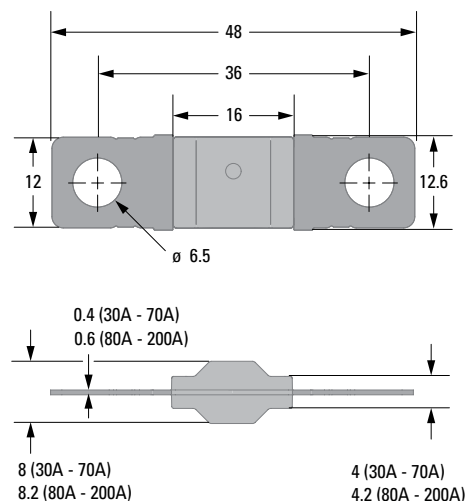
### Ratings

Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm <sup>2</sup> )	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I <sup>2</sup> t (A <sup>2</sup> s)
4998030.M_	30		2.5	100	2.20	3200
4998040.M_	40		4	94	1.56	4700
4998050.M_	50		6	86	1.16	7500
4998060.M_	60		6	81	0.94	6800
4998070.M_	70		10	76	0.74	10 900
4998080.M_	80		10	64	0.57	10 500
4998100.M_	100		10	68	0.44	18 300
4998125.M_	125		16	66	0.35	51 300
4998150.M_	150		25	72	0.29	45 100
4998175.M_	175		25	70	0.24	88 000
4998200.M_	200		35	67	0.20	111 700

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

### Dimensions

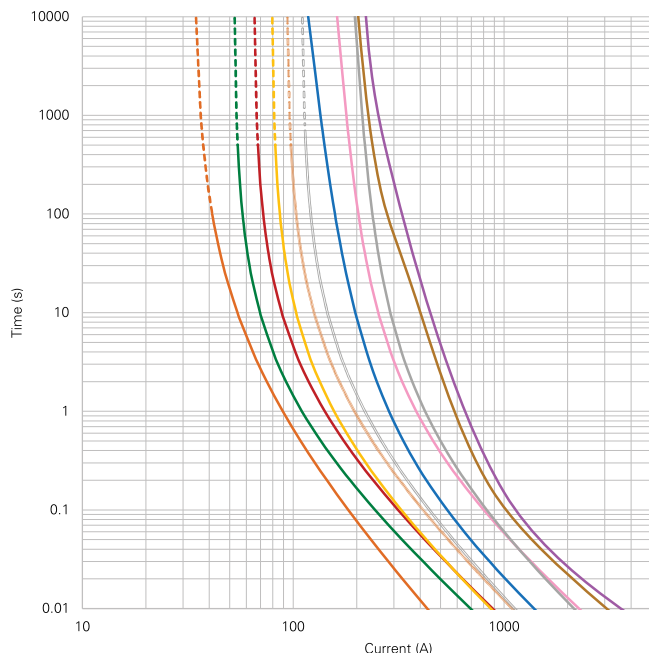
Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.



# MIDI High Performance Series

## Bolt-down Fuses – Rated 70V-SF36

### Time-Current Characteristic



% of Rating	Opening Time Min. / Max. (s)
100	360 000 / -
135	300 / 3 600
150	90 / 500
200	1 / 50
300	0.3 / 4
500	0.1 / 1
600	0.07 / 0.7

- 30 A
- 40 A
- 50 A
- 60 A
- 70 A
- 80 A
- 100 A
- 125 A
- 150 A
- 175 A
- 200 A

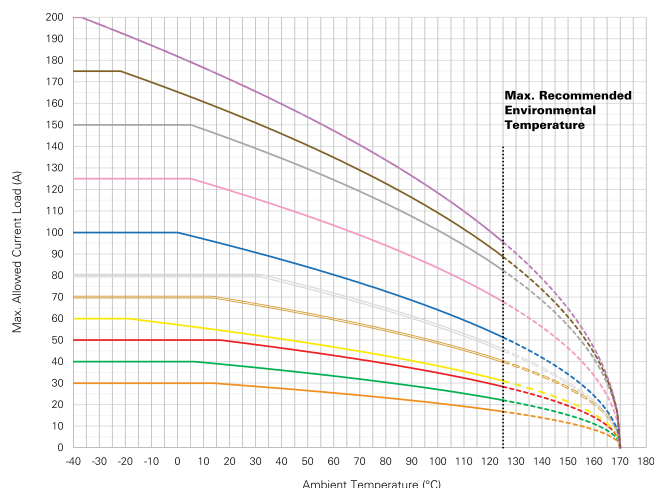
**Note 1:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse® for more information.

**Note 2:** Fuse ratings 150 A, 175 A and 200 A deviate from ISO standard (current cycles and current steps not applicable).

### 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
<b>30 A</b>	30	30	29	25	23	19	17
<b>40 A</b>	40	40	38	33	30	25	22
<b>50 A</b>	50	50	49	42	38	32	28
<b>60 A</b>	57	57	54	46	42	35	31
<b>70 A</b>	70	70	69	59	53	46	40
<b>80 A</b>	80	80	80	70	63	52	45
<b>100 A</b>	100	100	94	78	71	59	51
<b>125 A</b>	125	125	120	101	91	78	68
<b>150 A</b>	150	150	144	122	110	94	82
<b>175 A</b>	175	165	156	132	119	101	89
<b>200 A</b>	200	182	171	144	130	110	96

- 30 A
- 40 A
- 50 A
- 60 A
- 70 A
- 80 A
- 100 A
- 125 A
- 150 A
- 175 A
- 200 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.

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