

# MIDI IH Series

## Bolt-down Fuses – Rated 32 V-SF30

RoHS



### Description

Innovative body design ensure an increased accessibility for sockets and ring terminals on new Littelfuse MIDI Improved Housing 32 V bolt-down fuses.

Additional improvements include making color-coded ampere markings more visible to OCR scanners and housing features which allow this new MIDI fuse 32 V to withstand up to 10.5 Nm of torque on mounting screws (contact a Littelfuse expert to receive details on the test setup).

Available with current ratings from 30 A to 200 A, these fuses are optimized for use in automotive applications and refer to ISO 8820-5 standard, type SF30.

### Features & Benefits

- High-contrast ampere rating stamp on housing aids identification
- Available with two or one mounting holes
- Refer to ISO 8820-5
- High accessibility for screwing operation
- Maximum tightening torque up to 10.5 Nm \*

### Additional Information



Resources



Samples

### Applications

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

[See Disclaimer Notice](#)

### Specifications

<b>Voltage Rating:</b>	32 V DC
<b>Interrupting Rating:</b>	2000 A @ 32 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 (UL 94 Flammability rating of V-0)
<b>Mounting Torque M6:</b>	Recommended: 6 Nm ± 1 Nm (acc. ISO) Max. 10.5 Nm (with specific test setup)
<b>Typical Weight per Fuse:</b>	3.2 g
<b>Comply With:</b>	ISO 8820-5 – Type SF30

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


## Bolt-down Fuses – Rated 32 V-SF30

### Ordering Information

Part Number	Plating	Current Rating (A)		Package Size
0498xxx.MX2M6-IH	30-200	M6	2	800
0498xxx.MX1M6-IH	30-200	M6	1	800

\*Note: With specific test setup. Please contact Littelfuse for more details.

### 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)
0498030_	30		2.5	65	2.06	4200
0498040_	40		4	65	1.40	10 000
0498050_	50		6	65	1.02	13 000
0498060_	60		6	68	0.87	21 700
0498070_	70		10	70	0.72	24 000
0498080_	80		10	58	0.54	24 600
0498100_	100		16	60	0.46	51 300
0498125_	125		25	71	0.39	73 200
0498150_1	150		25	49 <sup>3</sup>	0.32	81 900
0498175_1,2	175		25	53 <sup>3</sup>	0.29	100 000
0498200_1	200		35	51 <sup>3</sup>	0.26	125 000

**Note 1:** 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.

**Note 2:** Short Circuit Protector only

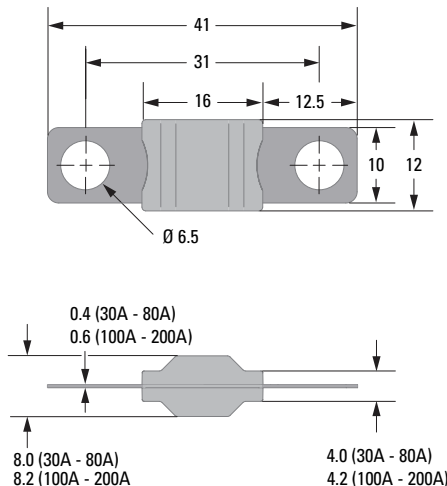
**Note 3:** Color Coding deviating from ISO standard

**Note 4:** Measured at 75% I<sub>r</sub>

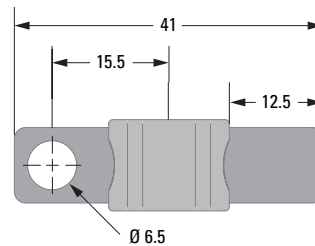
### Dimensions

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

2-Holes M6 version



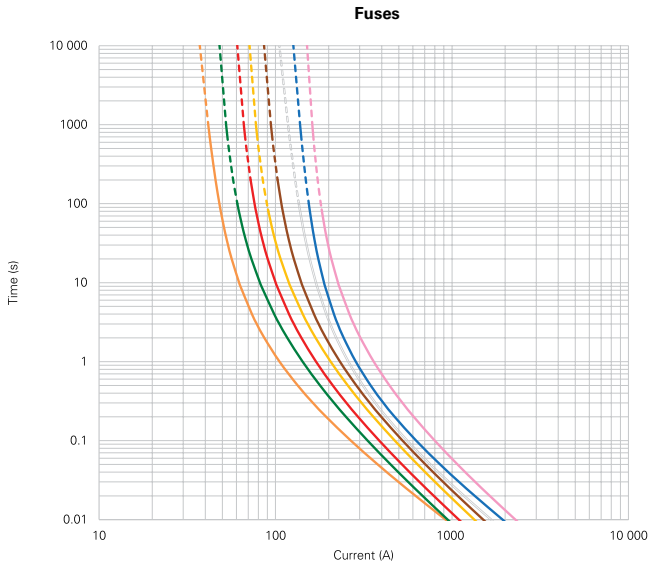
1-Hole M6 version



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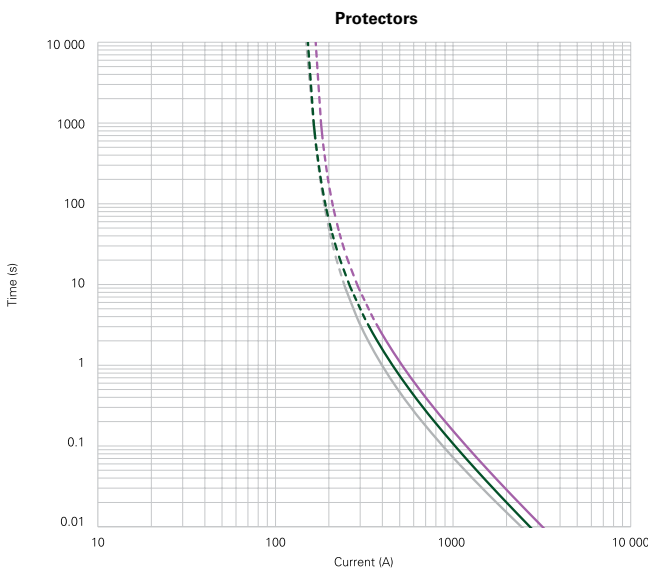
## Time-Current Characteristic



% of Rating	Opening Time Min. / Max. (s)
	30A-125A
75	- / -
100	360 000 / -
110	14 400 / -
150	90 / 3600
200	3 / 100
300	0.3 / 3
350	- / -
500	0.1 / 1
600	- / -

- 30 A
- 40 A
- 50 A
- 60 A
- 70 A
- 80 A
- 100 A
- 125 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.



% of Rating	Opening Time Min. / Max. (s)
	150A-200A
75	360 000 / -
100	- / -
110	- / -
150	- / -
200	1 / 15
300	- / -
350	0.3 / 5
500	- / -
600	0.1 / 1

- 150 A
- 175 A
- 200 A

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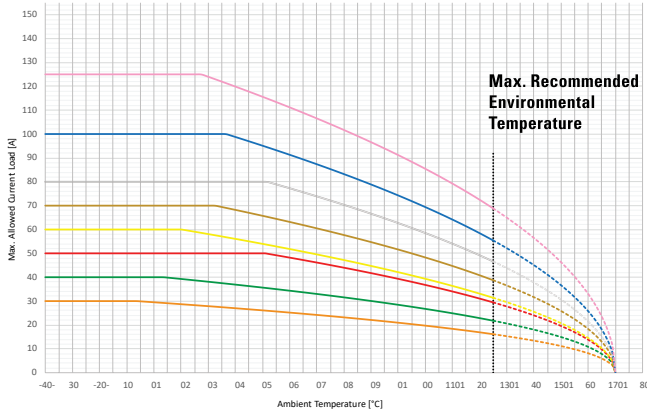
## Bolt-down Fuses – Rated 32 V-SF30

### Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-5

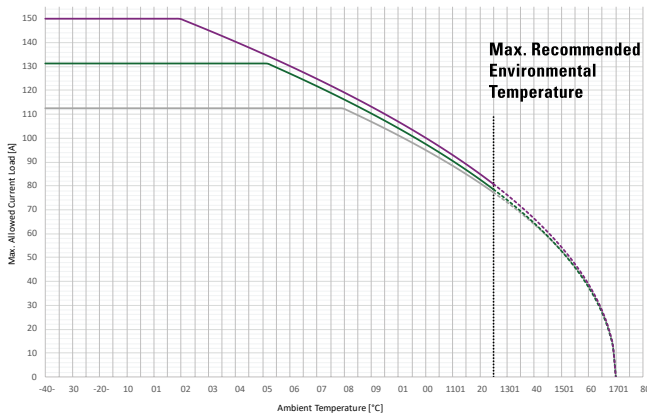
Please Contact Littelfuse® For Details Regarding Derating Test Set Up



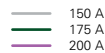
Max. allowed current load (A) at ambient temperature based on typical derating							
	-20 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
<b>30 A</b>	30	30	28	24	22	18	16
<b>40 A</b>	40	40	38	32	29	25	22
<b>50 A</b>	50	50	50	45	41	34	29
<b>60 A</b>	60	60	58	48	43	36	31
<b>70 A</b>	70	70	70	59	53	45	39
<b>80 A</b>	80	80	80	72	65	64	55
<b>100 A</b>	100	100	100	85	77	64	55
<b>125 A</b>	125	125	124	104	94	79	69



**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.



Max. allowed current load (A) at ambient temperature based on typical derating							
	-20 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
<b>150 A</b>	113	113	113	113	104	88	77
<b>175 A</b>	131	131	131	119	107	90	79
<b>200 A</b>	150	150	145	122	110	93	81



**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.

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