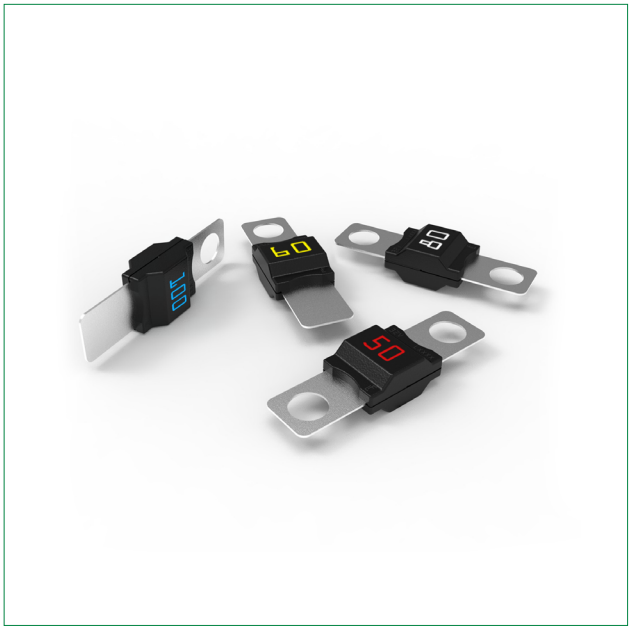
MIDI IH Series

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
- Refer to ISO 8820-5
- Maximum tightening torque up to 10.5 Nm *
- Available with two or one mounting holes
- High accessibility for screwing operation

Additional Information

Resources

Samples

Applications

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

See Disclaimer Notice

Specifications

Voltage Rating:	32 V DC
Interrupting Rating:	2000 A @ 32 V DC
Recommended Environmental Temperature:	–40 ˚C to +125 ˚C
Terminals Material:	Tin-plated copper alloy
Housing Material:	PA66-GF25 (UL 94 Flammability rating of V-0)
Mounting Torque M6:	Recommended: 6 Nm ± 1 Nm (acc. ISO) Max. 10.5 Nm (with specific test setup)
Typical Weight per Fuse:	3.2 g
Comply With:	ISO 8820-5 – Type SF30

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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

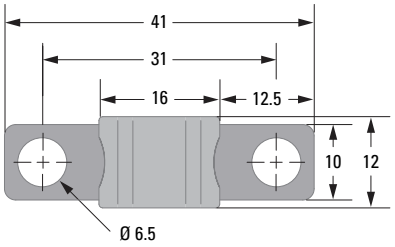
Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm^2)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I^2t (A^2s)
0498030._	30		2.5	65	2.06	4200
0498040._	40		4	65	1.40	10 000
0498050._	50		6	65	1.02	13 000
0498060._	60		6	68	0.87	21 700
0498070._	70		10	70	0.72	24 000
0498080._	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[3]	0.32	81 900
0498175._[1,2]	175		25	53[3]	0.29	100 000
0498200._[1]	200		35	51[3]	0.26	125 000

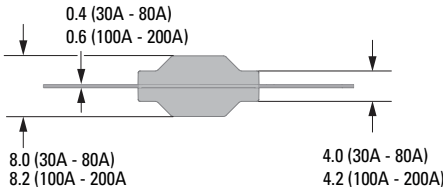
Note 1: The typical I^2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.
Note 2: Short Circuit Protector only
Note 3: Color Coding deviating from ISO standard
Note 4: Measured at 75% Ir

Dimensions

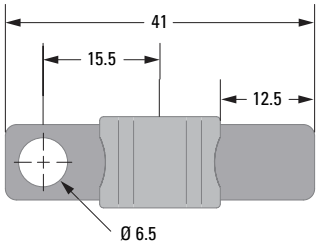
Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.

2-Holes M6 version





1-Hole M6 version



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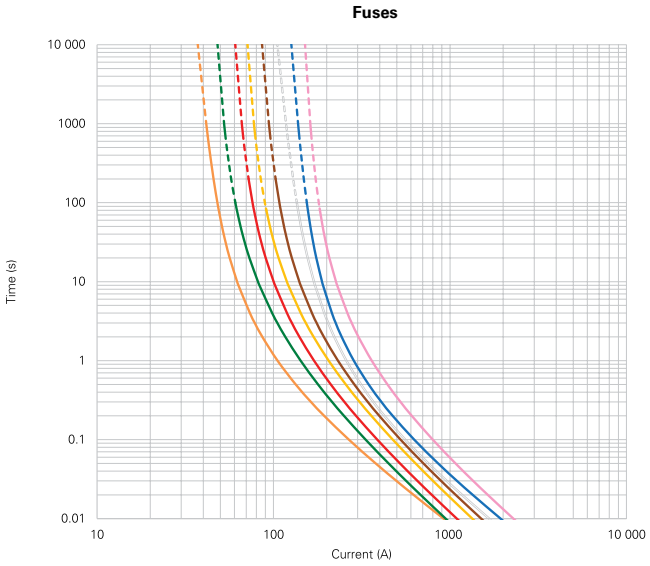
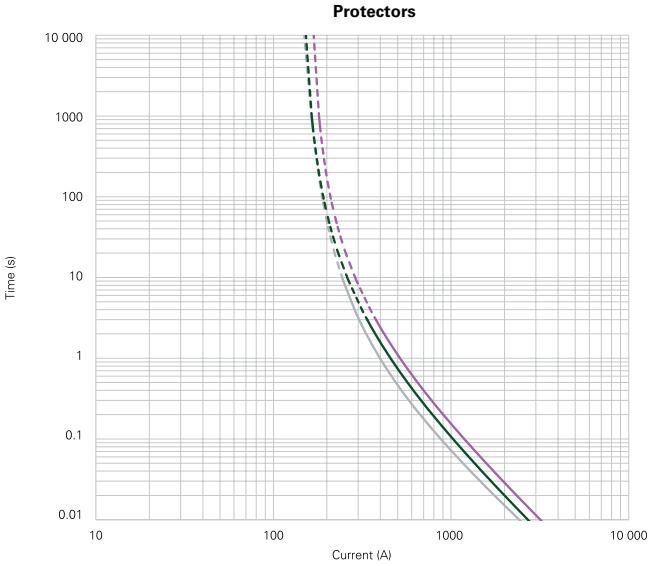
Time-Current Characteristic



% 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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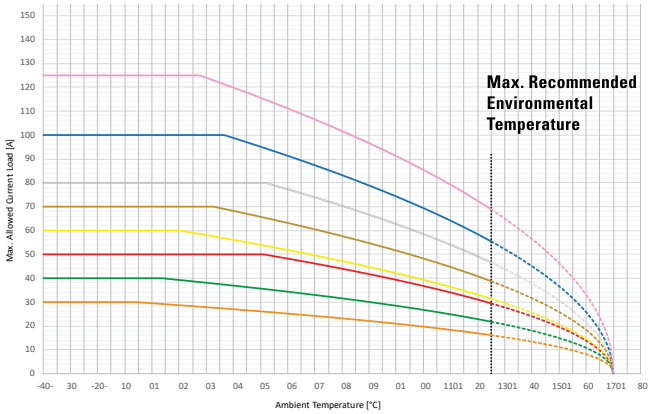
Typical Derating of Fuse Melting Element

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
30 A	30	30	28	24	22	18	16
40 A	40	40	38	32	29	25	22
50 A	50	50	50	45	41	34	29
60 A	60	60	58	48	43	36	31
70 A	70	70	70	59	53	45	39
80 A	80	80	80	72	65	64	55
100 A	100	100	100	85	77	64	55
125 A	125	125	124	104	94	79	69

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

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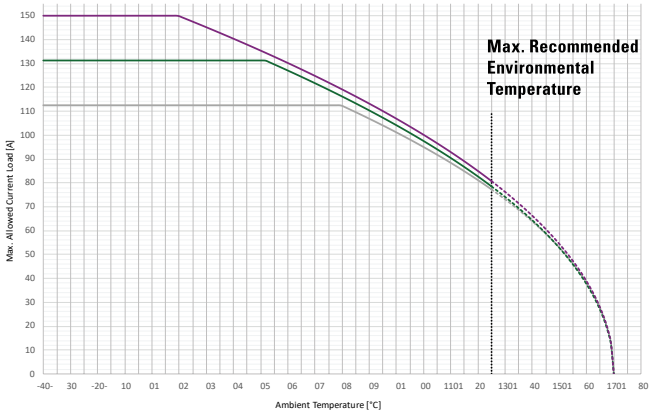

	Max. allowed current load (A) at ambient temperature based on typical derating						
	-20 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
150 A	113	113	113	113	104	88	77
175 A	131	131	131	119	107	90	79
200 A	150	150	145	122	110	93	81

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..).
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