Bolt-down Fuses – Rated 32 V-SF30





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

*Note: Silver plating allows up to 150 °C at the terminal interface.



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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 (mm²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I²t (A²s)
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
04981501	150		25	49³	0.32	81 900
0498175 ^{1,2}	175		25	53³	0.29	100 000
04982001	200		35	51 ³	0.26	125 000

Note 1: The typical |2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

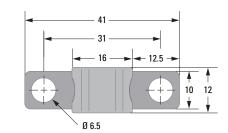
Note 2: Short Circuit Protector only

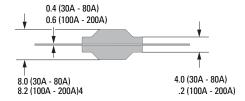
Note 3: Color Coding deviating from ISO standard Note 4: Measured at 75% Ir

Dimensions

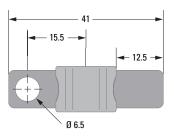
Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.

2-Holes M6 version



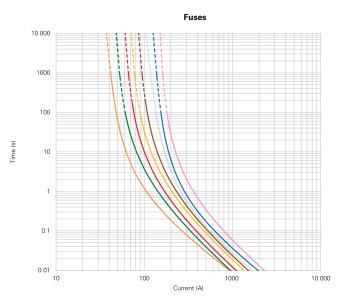


1-Hole M6 version



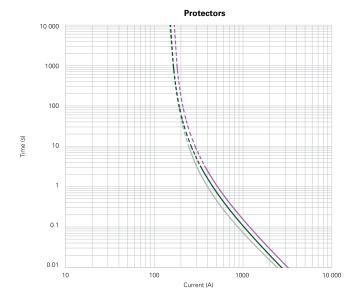
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Time-Current Characteristic



% of Rating	Opening Time Min. / Max. (s)			
3	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 70 A 80 A 50 A 100 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.



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

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.

150 A 175 A 200 A

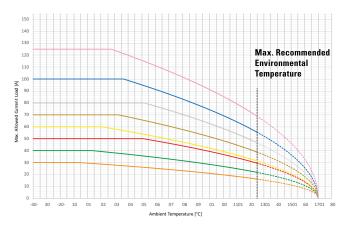
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Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

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

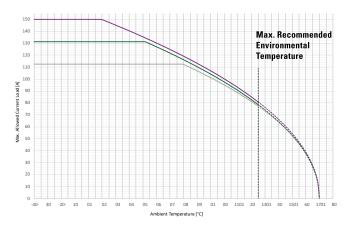
Please Contact Littelfuse® For Details Regarding Derating Test Set Up



	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

70 A 80 A 100 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.



	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..).
Please contact Littelfuse® for more information.

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