



New product introduction **MIDI** **IMPROVED HOUSING**

Bolt-Down fuse series – Rated 32V

PVB TM
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Expertise Applied | Answers Delivered

MIDI IMPROVED HOUSING Series

Bolt-down fuse – Rated 32 V

OVERVIEW



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.

Website: [Littelfuse MIDI IH Series](#)

MIDI IMPROVED HOUSING Series

Bolt-down fuse – Rated 32 V

GENERAL SPECIFICATIONS:

Interrupting Rating:	2000A @32VDC
Voltage Rating:	32VDC
Operating Temperature Range:	-40 °C up to +125 °C
Housing Material:	PA66-GF25
Flammability acc. UL94:	V0
Terminal Material:	Copper alloy
Terminal Plating:	Tin
Typical Weight per fuse:	3.2 g
M6 Mounting Torque:	Recommended: 6 ± 1 Nm (according ISO) Max. up to 10.5 Nm (with specific test setup)
Refer to:	ISO 8820-5
Fuse rating:	30 A – 200 A



MIDI IMPROVED HOUSING Series

Bolt-down fuse – Rated 32 V

FEATURES & BENEFITS

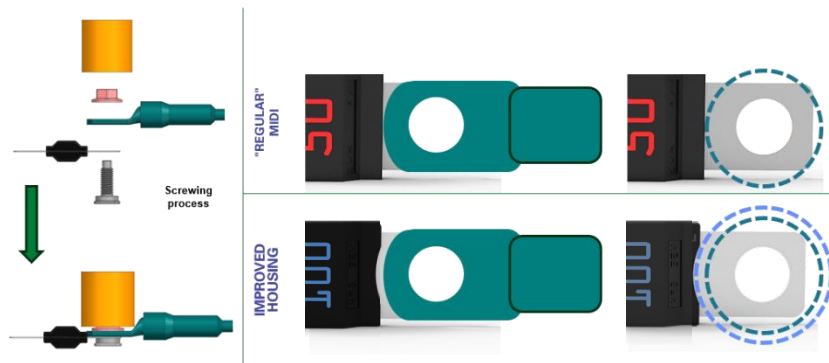
- Fuse rating in OCR-A font (ISO color coding)
- Maximum torque up to 10.5 Nm with specific test setup
- High accessibility for screwdrivers' sockets and terminals
- UL 94 Flammability ratings V-0
- Available in different variants (2-M6 and 1-M6)



2-Holes M6



1-Hole M6



Space for socket accessibility:

Ø 15 mm

Space for socket accessibility:

Ø 16.5 mm



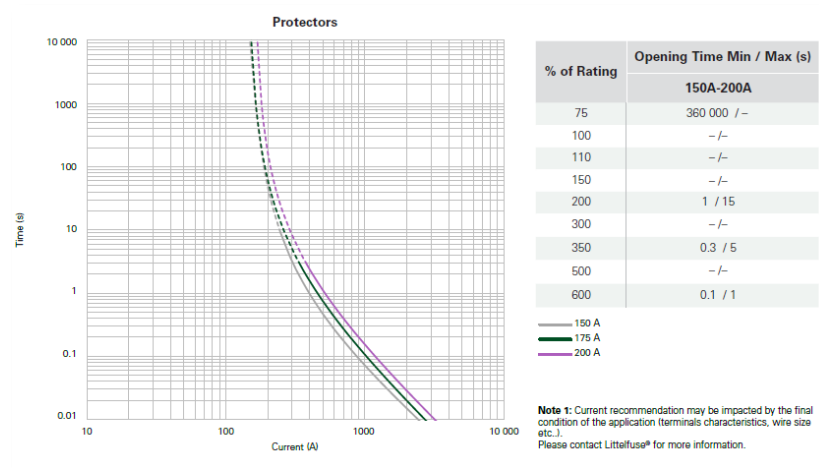
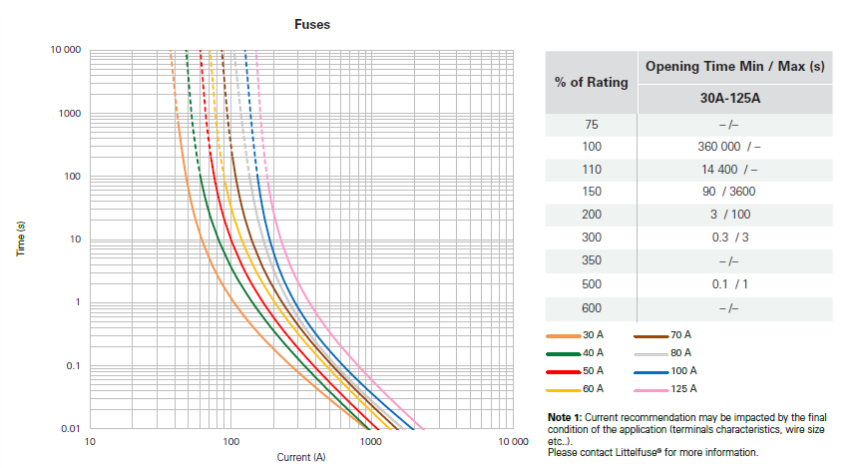
socket

MIDI IMPROVED HOUSING Series

Bolt-down fuse – Rated 32 V

PERFORMANCES

Same electrical performances in terms of **operating time** and derating of "REGULAR" MIDI 32V

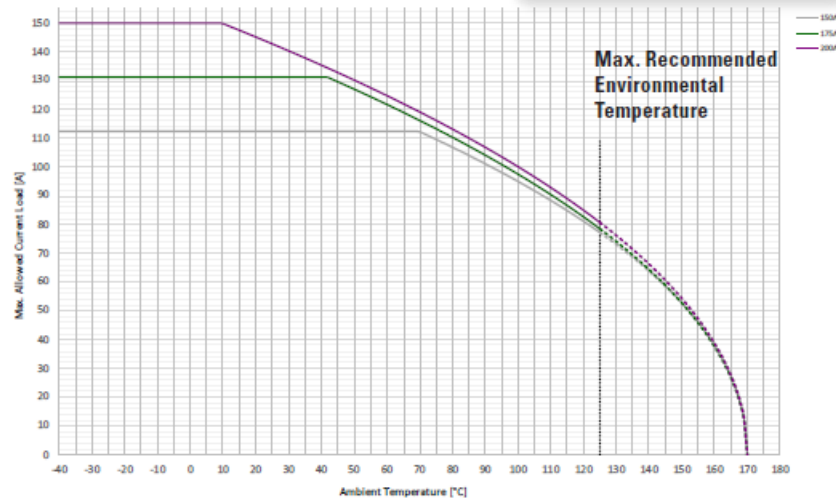
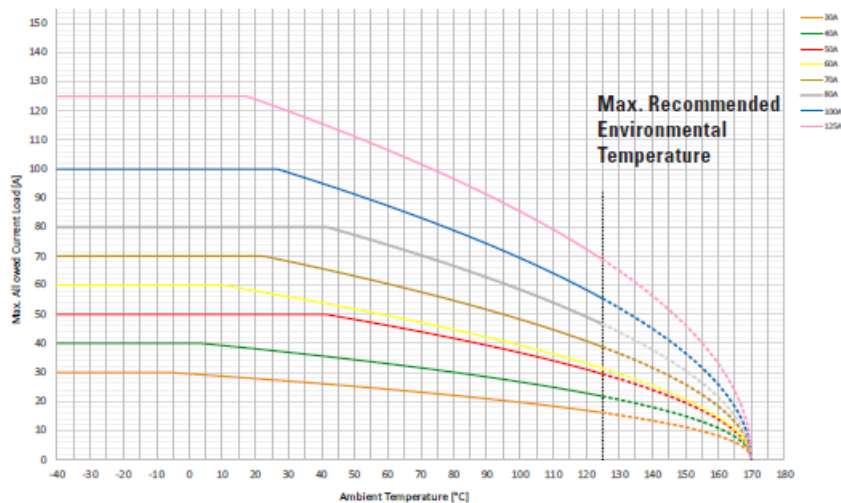


MIDI IMPROVED HOUSING Series

Bolt-down fuse – Rated 32 V

PERFORMANCES

Same electrical performances in terms of operating time and derating of "REGULAR" MIDI 32V:



		max. allowed current load according to typical derating						
		-20°C	0°C	20°C	65°C	85°C	110°C	125°C
30A	30	30	28	24	22	18	16	
40A	40	40	38	32	29	25	22	
50A	50	50	50	45	41	34	29	
60A	60	60	58	48	43	36	31	
70A	70	70	70	59	53	45	39	
80A	80	80	80	72	65	54	47	
100A	100	100	100	85	77	64	55	
125A	125	125	124	104	94	79	69	
150A	113	113	113	113	104	88	77	
175A	131	131	131	119	107	90	79	
200A	150	150	145	122	110	93	81	

MIDI IMPROVED HOUSING Series

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COMPARISON WITH EXISTING PRODUCTS - GENERAL

"REGULAR" MIDI



- Fuse rating in OCR-A font (ISO color coding)
- Hot laser-marked Voltage rating / LF logo / Date code
- Standard housing

& Clear housing version



MIDI IMPROVED HOUSING

NEW



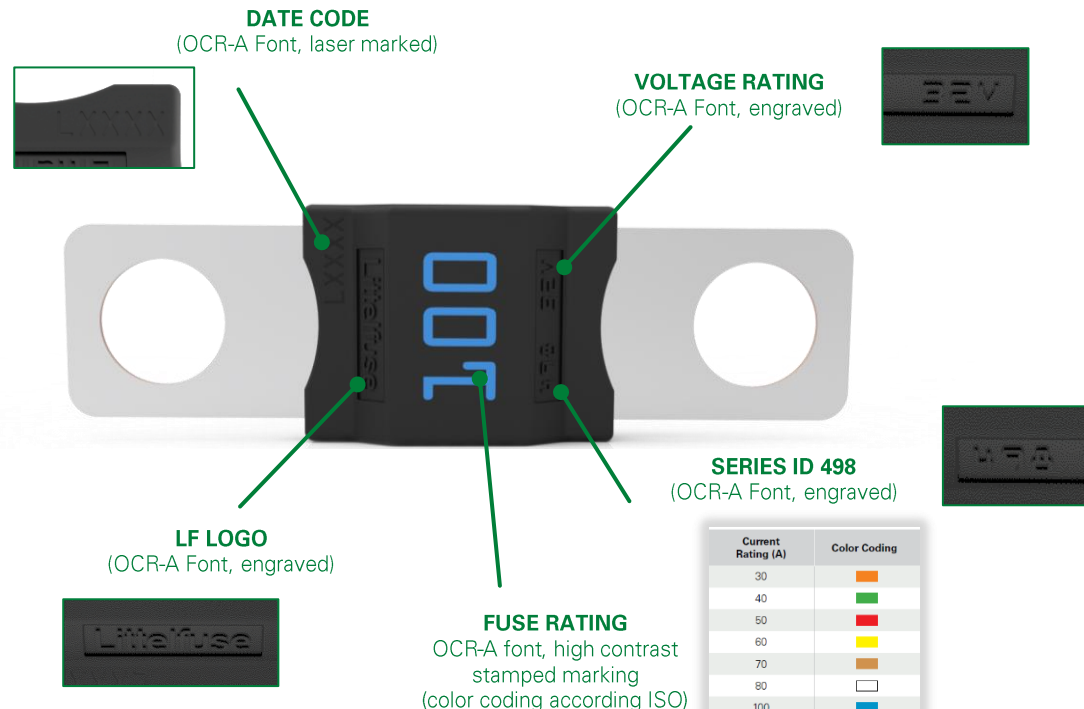
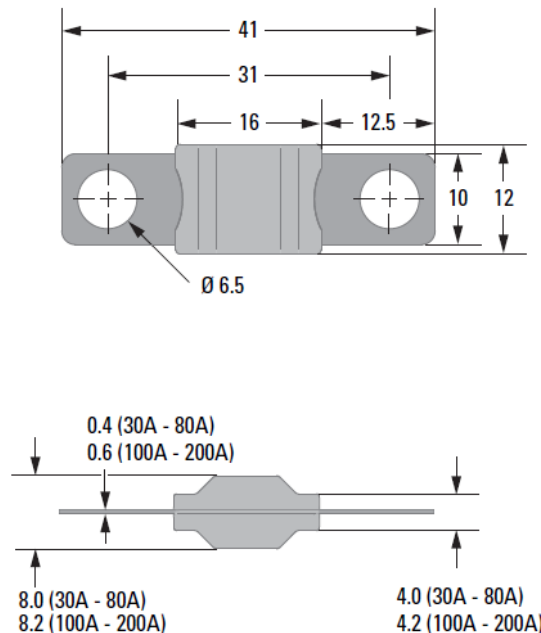
- Fuse rating in OCR-A font (ISO color coding)
- Engraved Voltage rating / LF logo / Series ID 498 (OCR-A)
- Laser-marked date code
- **Improved housing for better screwdrivers sockets and terminals accessibility (Nominal Ø 16.5mm)**
- **Max. torque (up to 10.5 Nm)**
- No clear housing version available



MIDI IMPROVED HOUSING Series

Bolt-down fuse – Rated 32 V

DIMENSIONS & MARKINGS



Current Rating (A)	Color Coding
30	Orange
40	Green
50	Red
60	Yellow
70	Brown
80	White
100	Blue
125	Pink
150	Grey
175	Black
200	Purple

MIDI IMPROVED HOUSING Series

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DATASHEET

Download the product datasheet and other technical documentation (3D etc.) at Littelfuse.com:

[Littelfuse MIDI IH Series](http://Littelfuse.com/MIDI_IH_Series)

MIDI IH Series

Bolt-down Fuses – Rated 32 V-SF30

Description

The new Littelfuse MIDI IH (IMPROVED HOUSING) 32V has a new body design compared to standard MIDI 32V to allow a better terminal connection and accessibility for the screwdriver socket wrench.

Features & Benefits

- High-contrast ampere rating stamp on housing aids identification
- Available with two, one, or no mounting holes
- Better accessibility for the socket wrench and eyeslets
- Refer to ISO 8820-5

Applications

- Cars / SUVs
- Trucks
- Offroad vehicles
- Watercraft as approved by UL

Specifications

Voltage Rating	32 V DC
Interconnecting Rating	200V A @ 50 V DC
Recommended Environmental Temperature	-40 °C to +125 °C
Termination Material	Tin plated copper alloy
Housing Material	PA66-GF30
Flammability Rating	UL 94V-0
Mounting Torque M/N	8 Nm x 1 Nm
Typical Weight per Fuse	2.2 g
Reference	ISO 8820-5 - Type SF30

Ordering Information

Part Number	Current Rating (A)	Bolt Size	Bolt Hole Qty	Package Size
00000000 MIDI IH 10A	10-200	M6	2	800
00000000 MIDI IH 15A	10-200	M6	1	800

MIDI IH Series

Bolt-down Fuses – Rated 32 V-SF30

Ratings

Part Number	Current Rating (A)	Housing Material Color	Bolt Hole Size (mm)	Top Voltage Drop (mV)	Top I ₂ t (A ² s)
00000000	10	RED	2.5	85	2.0
00000000	15	RED	4	85	1.8
00000000	20	RED	6	85	1.6
00000000	25	RED	8	85	1.4
00000000	30	RED	10	85	1.2
00000000	35	RED	12	85	1.0
00000000	40	RED	14	85	0.8
00000000	45	RED	16	85	0.6
00000000	50	RED	18	85	0.4
00000000	60	RED	20	85	0.3
00000000	75	RED	25	85	0.2
00000000	100	RED	30	85	0.1
00000000	125	RED	35	85	0.05
00000000	150	RED	40	85	0.03
00000000	200	RED	50	85	0.01

Dimensions

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

Time-Current Characteristic

Protections

MIDI IH Series

Bolt-down Fuses – Rated 32 V-SF30

Typical Derating of Fuse Melting Element

Temperature Coefficient: 0.2% / °C
 With Case Series and Plastic Part Set Up Refer to ISO 8820-5
 Power Coefficient: 0.2% / °C (See Temperature Derating Table Set Up)

Temp (°C)	10A	15A	20A	25A	30A	35A	40A	45A	50A	60A	75A	100A	125A	150A
-40	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
-30	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
-20	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
-10	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
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70	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
80	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
90	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
100	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
110	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
120	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
130	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
140	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0
150	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0	75.0	100.0	125.0	150.0