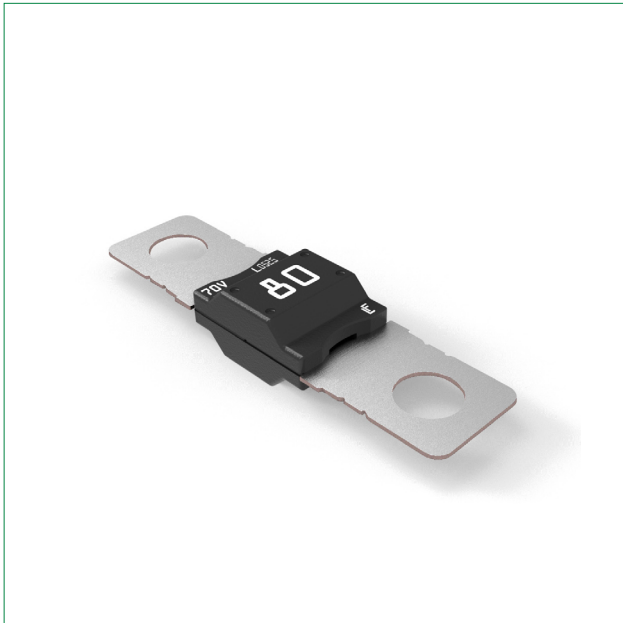


MIDI ISO Series

Bolt-down Fuses – Rated 70 V-SF36

RoHS



Description

MIDI 70V ISO is the new Littelfuse bolt-down series designed to fulfill the ISO standard 20934, which makes this compact fuse the perfect solution for high current circuit protection in both 48V and 12V systems. With new housing features and a completely redesigned shape, MIDI 70V ISO M6 - SF36 can withstand a tightening torque up to 11.5 Nm. Covering the complete ISO fuse ratings from 30 A to 200 A, MIDI 70V ISO is available in different versions to satisfy every kind of mounting necessities (one-hole M6, two-holes M6 and no-hole version).

Features & Benefits

- High-contrast ampere rating stamp on housing aids identification
- Available with two, one, or no mounting holes
- Suitable for 48V and 12V networks
- Comply with ISO 20934 – Type SF36
- High 1-time mounting torque

Applications

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

[See Disclaimer Notice](#)

Specifications

| | |
|---|--|
| Voltage Rating: | 70 V DC |
| Interrupting Rating: | 2500 A @ 70 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: | 9 Nm ± 1 Nm |
| Typical Weight per Fuse: | |
| Comply With: | ISO 20934 – Type SF36 |

Additional Information



Resources



Samples












Ordering Information

| Part Number | Current Rating (A) | Bolt Size | Bolt Qty. | Package Size |
|-------------------|--------------------|-----------|-----------|--------------|
| 4998xxx.MXISO-2M6 | 30–200 | M6 | 2 | 700 |
| 4998xxx.MXISO-1M6 | 30–200 | M6 | 1 | 700 |
| 4998xxx.MXISO-NH | 30–200 | - | - | 700 |

MIDI ISO Series

Bolt-down Fuses – Rated 70 V-SF36

Ratings

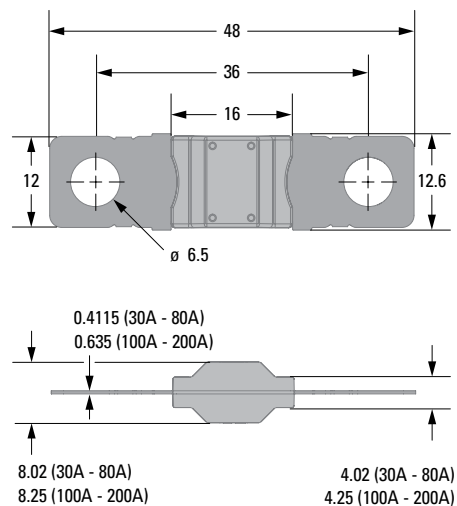
| Part Number | Current Rating (A) | Housing Material Color | Test Cable Size (mm ²) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I ² t (A ² s) |
|---------------|--------------------|---|------------------------------------|------------------------|---------------------------|--|
| 4998030.MXISO | 30 |  | 2.5 | 120 | 2.00 | 5500 |
| 4998040.MXISO | 40 |  | 4 | 120 | 1.53 | 8500 |
| 4998050.MXISO | 50 |  | 6 | 120 | 1.25 | 6500 |
| 4998060.MXISO | 60 |  | 6 | 110 | 0.99 | 14 500 |
| 4998070.MXISO | 70 |  | 10 | 110 | 0.74 | 25 000 |
| 4998080.MXISO | 80 |  | 10 | 110 | 0.70 | 22 500 |
| 4998100.MXISO | 100 |  | 10 | 100 | 0.5 | 52 000 |
| 4998125.MXISO | 125 |  | 16 | 100 | 0.41 | 78 000 |
| 4998150.MXISO | 150 |  | 25 | 100 ¹ | 0.32 | 114 000 |
| 4998175.MXISO | 175 |  | 25 | 100 ¹ | 0.24 | 207 000 |
| 4998200.MXISO | 200 |  | 35 | 100 ¹ | 0.24 | 207 000 |

Note 1: Voltage drop measurements taken at 75 % of rated current.

Note 2: The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

Dimensions

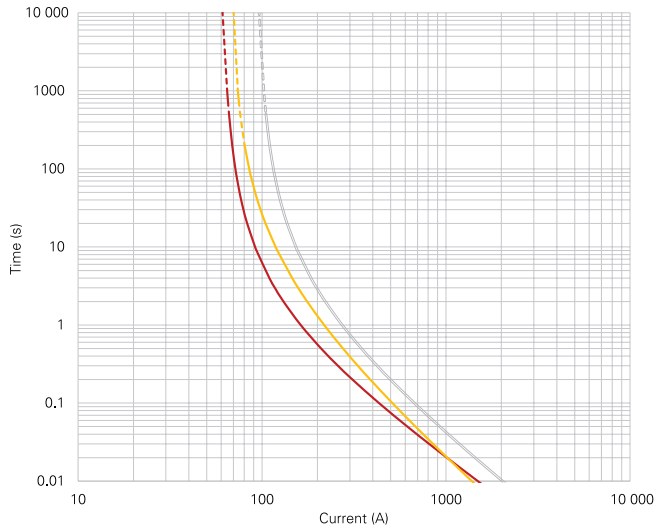
Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.



MIDI ISO Series

Bolt-down Fuses – Rated 70 V-SF36

Time-Current Characteristic



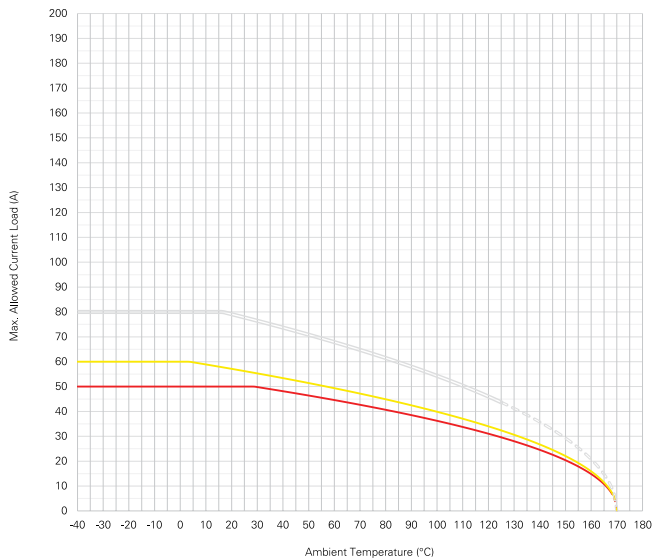
| % of Rating | Opening Time Min. / Max. (s) |
|-------------|------------------------------|
| 100 | 360 000 / - |
| 135 | 300 / 3600 |
| 150 | 90 / 500 |
| 200 | 1 / 50 |
| 300 | 0.3 / 4 |
| 500 | 0.1 / 1 |
| 600 | 0.07 / 0.7 |

— 50 A
— 60 A
— 80 A

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 |
| 30 A | - | - | - | - | - | - | - |
| 40 A | - | - | - | - | - | - | - |
| 50 A | 50 | 50 | 50 | 44 | 40 | 34 | 30 |
| 60 A | 60 | 60 | 57 | 48 | 44 | 37 | 32 |
| 70 A | - | - | - | - | - | - | - |
| 80 A | 80 | 80 | 79 | 66 | 60 | 50 | 44 |
| 100 A | - | - | - | - | - | - | - |
| 125 A | - | - | - | - | - | - | - |
| 150 A | - | - | - | - | - | - | - |
| 175 A | - | - | - | - | - | - | - |
| 200 A | - | - | - | - | - | - | - |

Note: The ratings without values are under development.

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