

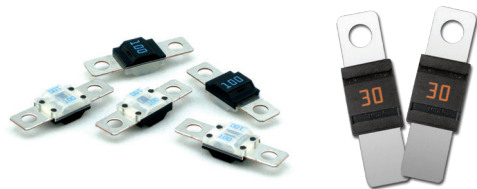


THE DATASHEET OF
0498080.M





MIDI® Fuses



Clear MIDI® Fuses
(clear nylon composite cover)

One Hole MIDI® Fuses

MIDI®, Clear MIDI®, and One Hole MIDI® Style Bolt-down Fuse Rated 32V

This MIDI® style fuse offers a bolt-on space saving fuse for high current wiring protection and provides time delay characteristics with “Diffusion Pill Technology”.

Specifications

| | |
|--|---|
| Voltage Rating: | 32 VDC |
| Interrupting Rating: | 2000A @ 32 VDC |
| Recommended Environmental Temperature: | -40°C to + 125°C |
| Terminals Material: | Tin plated Copper |
| Black Housing Material: | PA66-GF25 (U.L. 94 Flammability rating – V0) |
| Clear Housing Material: | PA6/66 (U.L. 94 Flammability rating – HB) |
| Mounting Torque M5: | 4.5 Nm +/- 1Nm |
| Mounting Torque M6: | 6.0 Nm +/- 1Nm |
| Refers to: | ISO 8820-5:2015 |
| Complies with: | Standard UL 248-1 as a Special Purpose Fuses in UL file E71611 (40-100A) and Directive 2011/65/EU |



Ordering Information

| Part Number | Rating | Package Size | Housing Color | Bolt Size | Bolt Hole Qty | Mfg Location |
|------------------|----------|--------------|---------------|-----------|---------------|--------------|
| 0498xxx.M | 30 - 200 | 1000 | Black | M5 | 2 | Mexico |
| 0498xxx.M-CN | 30 - 200 | 1000 | Black | M5 | 2 | China |
| 0498xxx.H | 30 - 200 | 100 | Black | M5 | 2 | Mexico |
| 0498xxx.MXM6 | 30 - 200 | 1000 | Black | M6 | 2 | Mexico |
| 0498xxx.MXM6-CN | 30 - 200 | 1000 | Black | M6 | 2 | China |
| 0498xxx.MX1M5 | 30 - 200 | 1000 | Black | M5 | 1 | Mexico |
| 0498xxx.MX1M5-CN | 30 - 200 | 1000 | Black | M5 | 1 | China |
| 0498xxx.MX1M6 | 30 - 200 | 1000 | Black | M6 | 1 | Mexico |
| 0498xxx.MX1M6-CN | 30 - 200 | 1000 | Black | M6 | 1 | China |
| 0498xxx.MXT | 30 - 200 | 1000 | Clear | M5 | 2 | Mexico |
| 0498xxx.MXT-CN | 30 - 200 | 1000 | Clear | M5 | 2 | China |
| 0498xxx.MXTM6 | 30 - 200 | 1000 | Clear | M6 | 2 | Mexico |
| 0498xxx.MXTM6-CN | 30 - 200 | 1000 | Clear | M6 | 2 | China |

Materials manufactured in Asia are produced with the same specifications as materials manufactured in North America and meets the same test requirements. Multiple production locations are for capacity expansion only.

Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) | |
|-------------|----------------------------|-------------|
| | 30A-125A | 150A-200A |
| 75 | - / - | 360,000 / ∞ |
| 100 | 360,000 / ∞ | - / - |
| 110 | 14,400 / ∞ | - / - |
| 150 | 90 / 3,600 | - / - |
| 200 | 3 / 100 | 1 / 15 |
| 300 | 0.3 / 3 | - / - |
| 350 | - / - | 0.3 / 5 |
| 500 | 0.1 / 1 | - / - |
| 600 | - / - | 0.1 / 1 |

Time-Current Characteristic Curves



Ratings

| Part Number | Current Rating (A) | Color Code | Test Cable size (mm2) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I²t (A²s) |
|---------------|--------------------|------------|-----------------------|------------------------|---------------------------|----------------|
| 0498030_2 | 30 | Orange | 2.5 | 65 | 2.06 | 4,200 |
| 0498040_ | 40 | Green | 4 | 65 | 1.40 | 10,000 |
| 0498050_ | 50 | Red | 6 | 65 | 1.02 | 13,000 |
| 0498060_ | 60 | Yellow | 6 | 68 | 0.87 | 21,700 |
| 0498070_ | 70 | Brown | 10 | 70 | 0.72 | 24,000 |
| 0498080_ | 80 | White | 10 | 58 | 0.54 | 24,600 |
| 0498100_ | 100 | Blue | 16 | 60 | 0.46 | 51,300 |
| 0498125_2 | 125 | Pink | 25 | 71 | 0.39 | 73,200 |
| 0498150_1,2 | 150 | Grey | 25 | 77 ⁴ | 0.32 | 81,900 |
| 0498175_1,2,3 | 175 | Dark Green | 25 | 77 ⁴ | 0.26 | 100,000 |
| 0498200_1,2 | 200 | Purple | 25 | 77 ⁴ | 0.26 | 125,000 |

Note 1: Short Circuit Protector only
 Note 2: Not UL Recognized
 Note 3: Color Coding deviating from ISO standard
 Note 4: Measured at 75% Ir

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

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MIDI®, Clear MIDI®, and One Hole MIDI® Style Bolt-down Fuse Rated 32V

Dimensions

Dimensions in mm for reference only. See outline drawing for dimensions and tolerances.

MIDI 2 Holes M5/M6 versions



MIDI 1 Hole M5 versions



MIDI 1 Hole M6 versions



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



Temperature Table

| | max. allowed current load [A] at ambient temperature (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 |

Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc.). Please ask Littelfuse for more information.

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