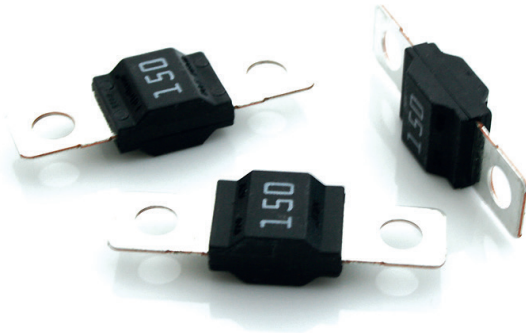
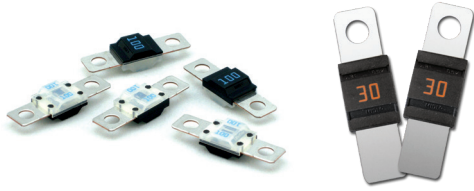




MIDI® Fuses



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

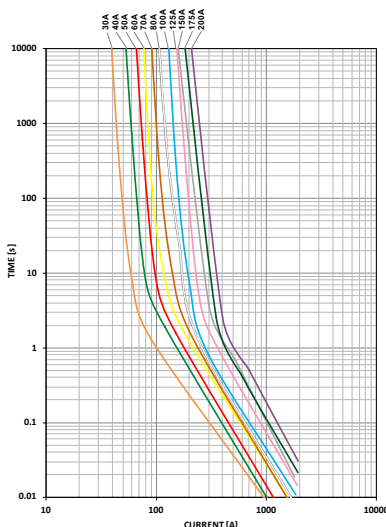
| Part Number      | Rating   | Package Size | Housing Color | Bolt Size | Bolt Hole Qty | Mfg Location |
|------------------|----------|--------------|---------------|-----------|---------------|--------------|
| 0498xxx.M        | 30 - 200 | 1000         | Black         | M5        | 2             | 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 <sup>4</sup>        | 0.32                      | 81,900         |
| 0498175_1,2,3 | 175                | Dark Green | 25                    | 77 <sup>4</sup>        | 0.26                      | 100,000        |
| 0498200_1,2   | 200                | Purple     | 25                    | 77 <sup>4</sup>        | 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% I<sub>r</sub>

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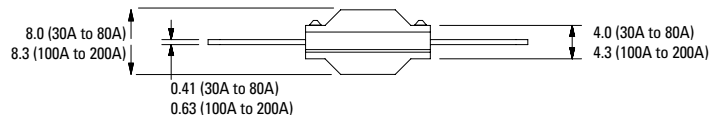
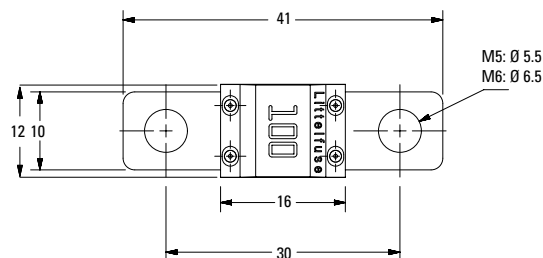
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## MIDI®, Clear MIDI®, and One Hole MIDI® Style Bolt-down Fuse Rated 32V

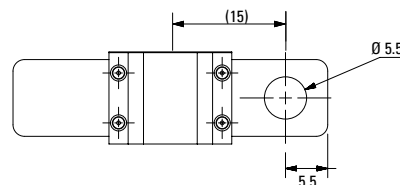
### Dimensions

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

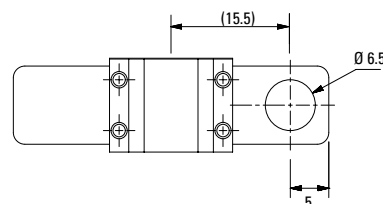
#### MIDI 2 Holes M5/M6 versions



#### MIDI 1 Hole M5 versions



#### MIDI 1 Hole M6 versions

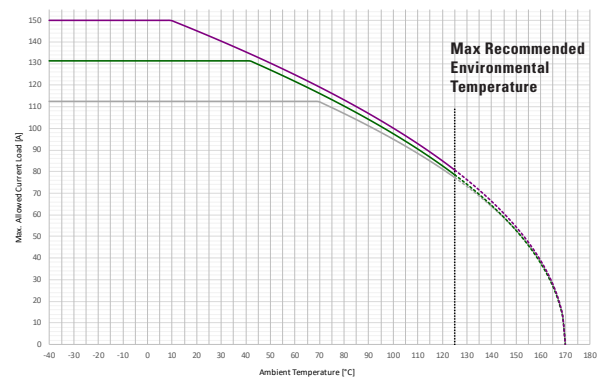
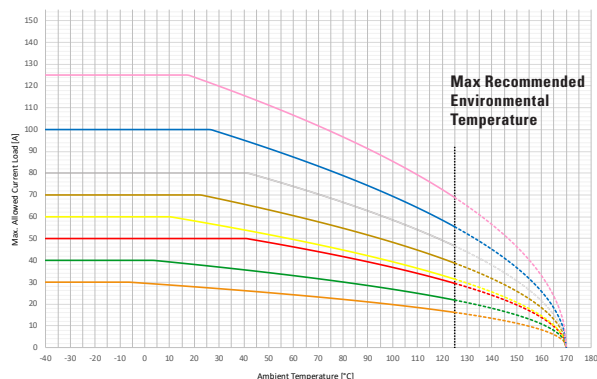


### Typical Derating of Fuse Melting Element

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 |
| <b>30A</b>  | 30                                                                      | 30  | 28   | 24   | 22   | 18    | 16    |
| <b>40A</b>  | 40                                                                      | 40  | 38   | 32   | 29   | 25    | 22    |
| <b>50A</b>  | 50                                                                      | 50  | 50   | 45   | 41   | 34    | 29    |
| <b>60A</b>  | 60                                                                      | 60  | 58   | 48   | 43   | 36    | 31    |
| <b>70A</b>  | 70                                                                      | 70  | 70   | 59   | 53   | 45    | 39    |
| <b>80A</b>  | 80                                                                      | 80  | 80   | 72   | 65   | 54    | 47    |
| <b>100A</b> | 100                                                                     | 100 | 100  | 85   | 77   | 64    | 55    |
| <b>125A</b> | 125                                                                     | 125 | 124  | 104  | 94   | 79    | 69    |
| <b>150A</b> | 113                                                                     | 113 | 113  | 113  | 104  | 88    | 77    |
| <b>175A</b> | 131                                                                     | 131 | 131  | 119  | 107  | 90    | 79    |
| <b>200A</b> | 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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