

# MIDI®, Clear MIDI®, One-Hole MIDI® Style

## Bolt-down Fuse Rated 32V



Clear MIDI® Fuses  
(clear nylon composite cover)

### Description

Space-saving MIDI® fuses protect high-current wiring harnesses. The bolt-down automotive fuses employ diffusion pill technology to offer time-delay characteristics. Use MIDI fuses with ratings of 150 A to 200 A only for short circuit protection.

### Specifications

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

### Applications

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

### Features & Benefits

- Color-coded ampere labels aid identification
- Clear tops make it easy to see when fuse blows
- Available with one or two mounting holes
- Compact design and light weight enable greater circuit protection in less space

### Ordering Information

| Part Number   | Current Rating (A) | Housing Color | Bolt Size | Bolt Qty. | Package Size |
|---------------|--------------------|---------------|-----------|-----------|--------------|
| 0498xxx.M     | 30–200             | Black         | M5        | 2         | 1000         |
| 0498xxx.H     | 30–200             | Black         | M5        | 2         | 100          |
| 0498xxx.MXM6  | 30–200             | Black         | M6        | 2         | 1000         |
| 0498xxx.MX1M5 | 30–200             | Black         | M5        | 1         | 1000         |
| 0498xxx.MX1M6 | 30–200             | Black         | M6        | 1         | 1000         |
| 0498xxx.MXT   | 30–200             | Clear         | M5        | 2         | 1000         |
| 0498xxx.MXTM6 | 30–200             | Clear         | M6        | 2         | 1000         |

**Note:** 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.

# MIDI<sup>®</sup>, Clear MIDI<sup>®</sup>, One-Hole MIDI<sup>®</sup> Style

## Bolt-down Fuse Rated 32V

### Ratings

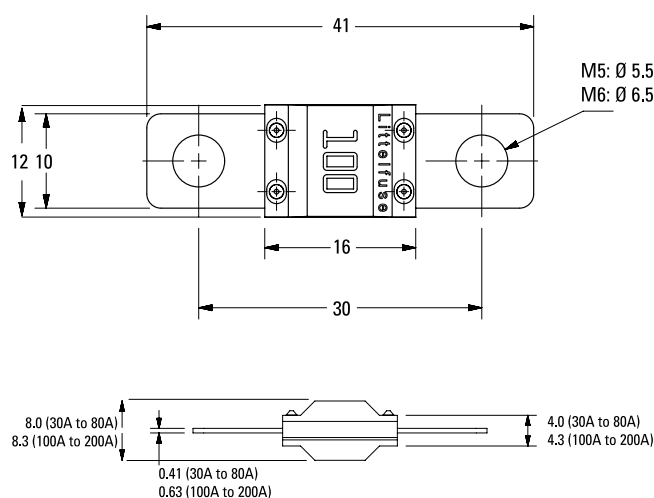
| Part Number                | Current Rating (A) | Color Code                                                                        | Test Cable size (mm <sup>2</sup> ) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I <sup>2</sup> t (A <sup>2</sup> s) |
|----------------------------|--------------------|-----------------------------------------------------------------------------------|------------------------------------|------------------------|---------------------------|------------------------------------------|
| 0498030._ <sup>2</sup>     | 30                 |  | 2.5                                | 65                     | 2.06                      | 4,200                                    |
| 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._ <sup>2</sup>     | 125                |  | 25                                 | 71                     | 0.39                      | 73,200                                   |
| 0498150._ <sup>1,2</sup>   | 150                |  | 25                                 | 49 <sup>4</sup>        | 0.32                      | 81,900                                   |
| 0498175._ <sup>1,2,3</sup> | 175                |  | 25                                 | 53 <sup>4</sup>        | 0.29                      | 100,000                                  |
| 0498200._ <sup>1,2</sup>   | 200                |  | 25                                 | 51 <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% Ir  
The typical I<sup>2</sup>t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

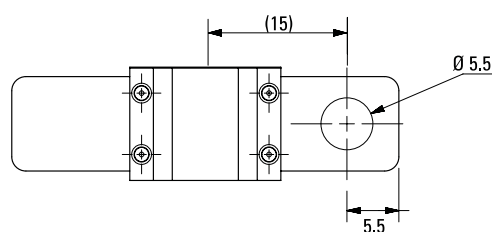
### Dimensions

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

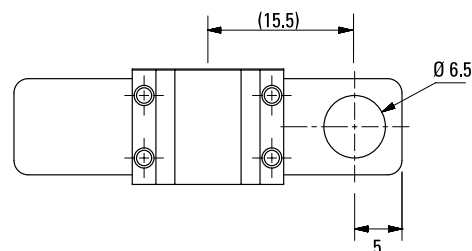
#### MIDI 2 Holes M5/M6 versions



#### MIDI 1 Hole M5 versions



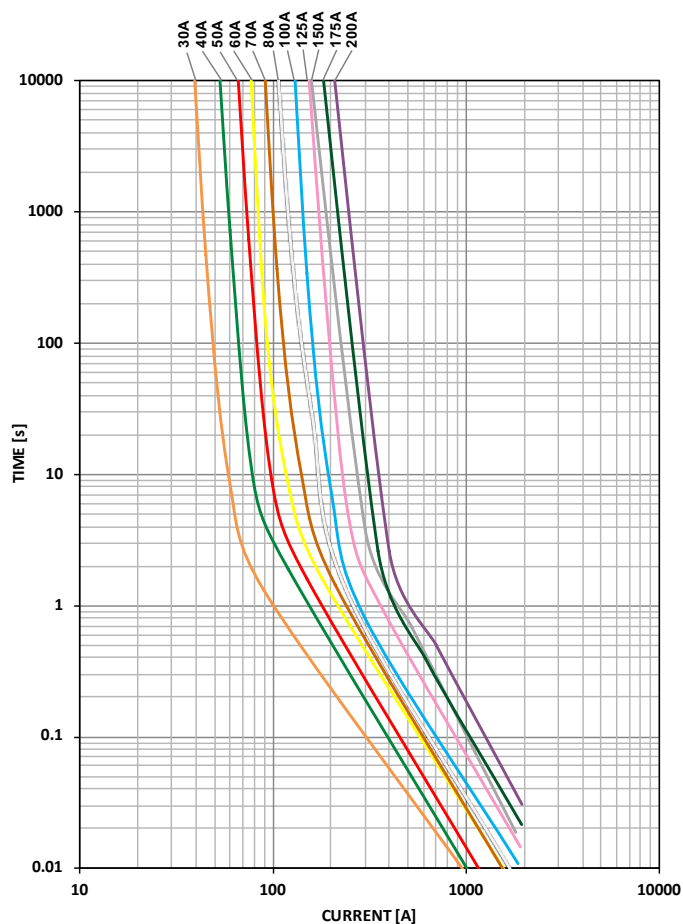
#### MIDI 1 Hole M6 versions



# MIDI<sup>®</sup>, Clear MIDI<sup>®</sup>, One-Hole MIDI<sup>®</sup> Style

Bolt-down Fuse Rated 32V

## Time-Current Characteristic Curves



## 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     |

# MIDI®, Clear MIDI®, One-Hole MIDI® Style

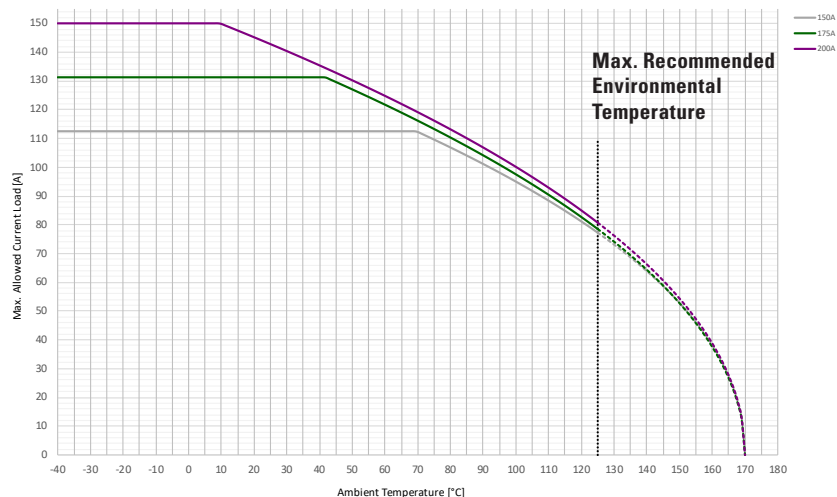
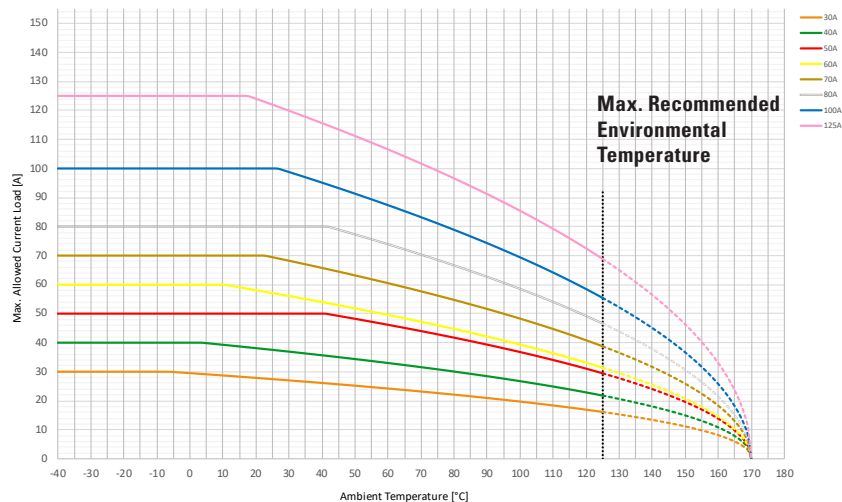
## Bolt-down Fuse Rated 32V

### Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-3

Please Contact Littelfuse® For Details Regarding Derating Test Set Up



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

### 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.