# MEGA® High Performance Fuse

## Rated 70V-SF56

RoHS

## Specifications

| | |
|---|---|
| **Voltage Rating:** | 70 V DC |
| **Interrupting Rating:** | 2500A @ 70 V DC |
| **Recommended Environmental Temperature:** | -40 °C to +125 °C |
| **Terminals Material:** | Tin Plated ETP Copper |
| **Housing Material:** | PPA-GF33HS (U.L. 94 Flammability rating - HB) |
| **Mounting Torque M6:** | 9 Nm +/- 1 Nm |
| **Mounting Torque M8:** | 20 Nm +/- 1 Nm |
| **Complies with:** | ISO 20934 - Type SF56 |
| **Open State Resistance (after fuse opening)** | >1MOhm |

## Description

The MEGA® 70V-SF56 High Performance (HP) Fuses iemploy diffusion pill technology to provide predictable time-delayed circuit protection. These MEGA fuses are ideal for protecting batteries, alternators, and heavy gauge wire harnesses that experience large inrushes of current. Use fuses with ampere ratings of between 350 A and 500 A only for short circuit protection.

## Features & Benefits

- High-contrast ampere rating stamp on housing aids indentification
- More than 1 Mohm open state resistance
- Available with two, one, or no mounting holes
- 56 mm pitch prevents mistaken replacement with other types of high-current fuses

## Applications

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

## Ordering Information

| Part Number | Rating | Package Size | Bolt Size | Bolt Hole Qty |
|---|---|---|---|---|
| 0898xxx.U-2M8 | 60–500 | 500 | M8 | 2 |
| 0898xxx.U-1M8 | 60–500 | 500 | M8 | 1 |
| 0898xxx.U-2M6 | 60–500 | 500 | M6 | 2 |
| 0898xxx.U-1M6 | 60–500 | 500 | M6 | 1 |
| 0898xxx.U-NH | 60–500 | 500 | N/A | 0 |

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## Ratings

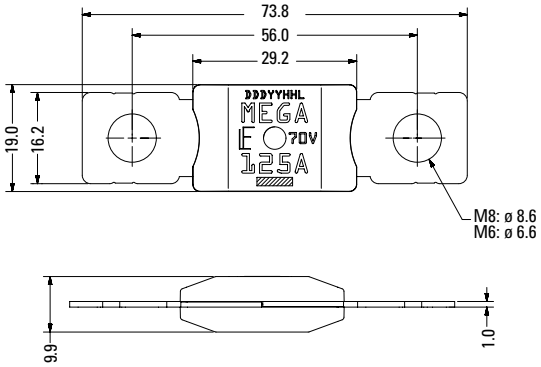
| Part Number | Current Rating (A) | Font Color | Test Cable Size (mm²) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I²t (A²s) |
|---|---|---|---|---|---|---|
| 0898060._ | 60 | | 6 | 75.5 | 0.90 | 22 800 |
| 0898080._ | 80 | | 10 | 88.0 | 0.75 | 34 900 |
| 0898100._ | 100 | | 10 | 66.7 | 0.46 | 24 000 |
| 0898125._ | 125 | | 16 | 70.4 | 0.37 | 38 000 |
| 0898150._ | 150 | | 25 | 70.6 | 0.32 | 58 100 |
| 0898175._ | 175 | | 25 | 79.2 | 0.28 | 79 300 |
| 0898200._ | 200 | | 35 | 76.9 | 0.24 | 123 600 |
| 0898225._ | 225 | | 35 | 76.6 | 0.21 | 142 500 |
| 0898250._ | 250 | | 50 | 66.0 | 0.17 | 220 000 |
| 0898300._ | 300 | | 50 | 46.9 [2] | 0.15 | 340 000 |
| 0898350._ | 350 [1] | | 50 | 50.7 [2] | 0.14 | 495 000 |
| 0898400._ | 400 [1] | | 70 | 50.1[2] | 0.12 | 872 000 |
| 0898450._ | 450 [1] | | 70 | 52.9 [2] | 0.10 | 1 224 000 |
| 0898500._ | 500 [1] | | 70 | 56.3 [2] | 0.09 | 1 800 000 |

1 Short Circuit Protector only
2 Voltage Drop measurements for short circuit protectors taken at 75% of rated current.
The I2t value is calculated from the breaking capacity tests by using the current time profile before the arcing occurs.

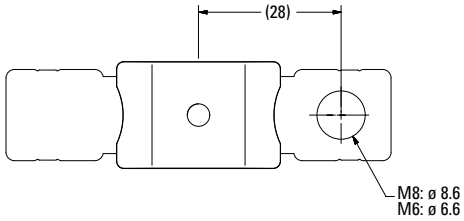
## Dimensions

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

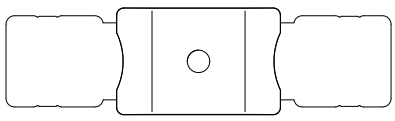
### MEGA HP SF56 2 Holes M8/M6 versions




### MEGA HP SF56 1 Hole M8/M6 versions




### MEGA HP SF56 No-Holes version





Revised: 01/19/2023

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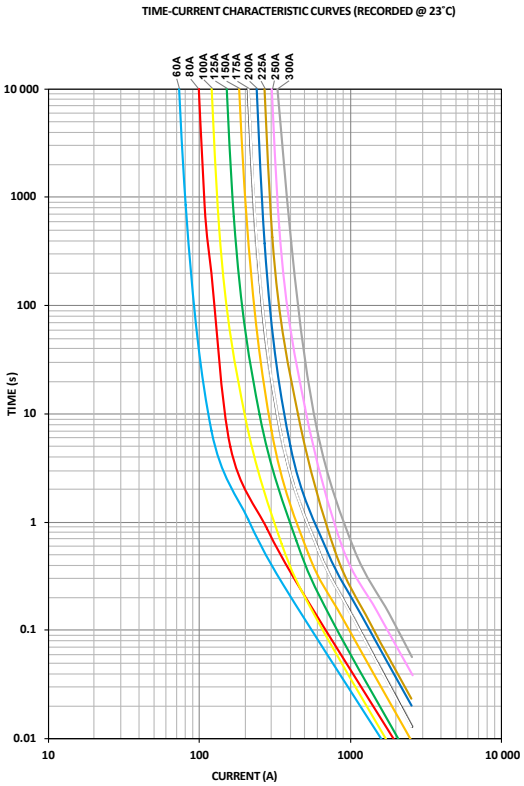
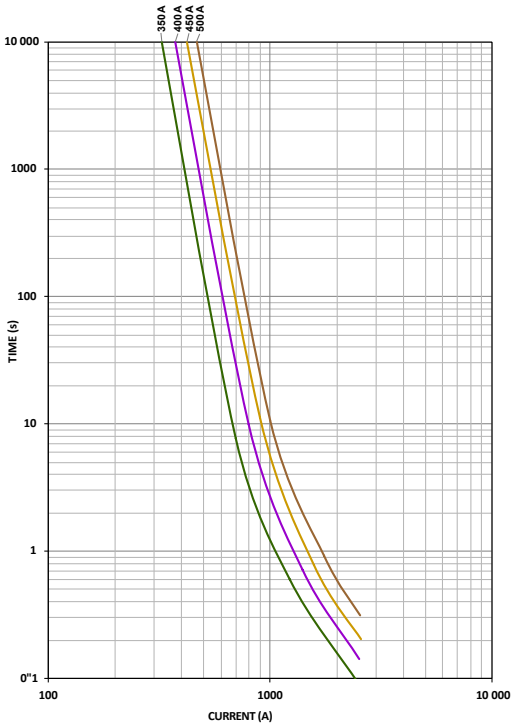
## Time-Current Characteristic Curves




## Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) | | |
|---|---|---|---|
| | 60-250 | 300 | 350-500 |
| 75 | – / – | 14 400 / ∞ | 14 400 / ∞ |
| 100 | 14 400 / ∞ | – / – | – / – |
| 135 | 120 / 1800 | 120 / 1800 | – / – |
| 150 | 20 / 450 | 20 / 450 | – / – |
| 200 | 1 / 15 | 1 / 15 | 1 / 15 |
| 350 | 0.3 / 5 | 0.3 / 5 | 0.5 / 5 |
| 600 | 0.1 / 1 | 0.1 / 1 | 0.1 / 1 |

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# MEGA® High Performance Fuse

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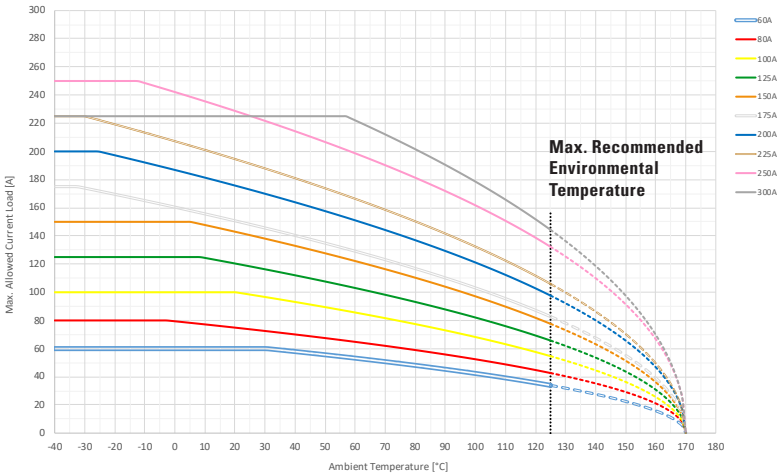
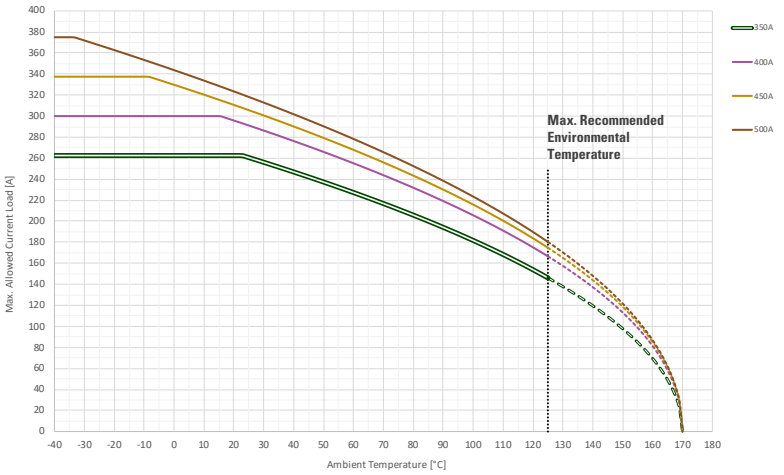
### Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%
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) | | | | | | | |
|---|---|---|---|---|---|---|---|
| | -40 °C | 0 °C | 20 °C | 65 °C | 85 °C | 110 °C | 125 °C |
| **60A** | 60 | 60 | 60 | 52 | 47 | 39 | 34 |
| **80A** | 80 | 79 | 75 | 63 | 57 | 49 | 43 |
| **100A** | 100 | 100 | 100 | 84 | 75 | 63 | 55 |
| **125A** | 125 | 125 | 120 | 101 | 90 | 76 | 66 |
| **150A** | 150 | 150 | 143 | 119 | 107 | 90 | 78 |
| **175A** | 175 | 160 | 151 | 126 | 114 | 95 | 83 |
| **200A** | 200 | 187 | 176 | 148 | 133 | 112 | 98 |
| **225A** | 225 | 207 | 195 | 163 | 146 | 123 | 106 |
| **250A** | 250 | 242 | 229 | 194 | 177 | 151 | 132 |
| **300A** | 225 | 225 | 225 | 217 | 196 | 166 | 144 |
| **350A** | 263 | 263 | 263 | 222 | 200 | 168 | 146 |
| **400A** | 300 | 300 | 296 | 250 | 226 | 191 | 167 |
| **450A** | 338 | 330 | 311 | 262 | 237 | 201 | 175 |
| **500A** | 375 | 344 | 323 | 272 | 246 | 207 | 180 |



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