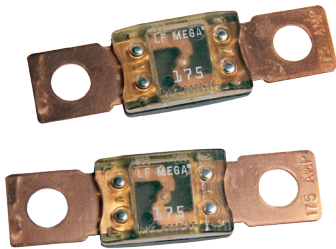


MEGA® Fuses



MEGA® Clear Top Housing Fuse

MEGA® and MEGA® Clear Top Fuse Rated 32V

The MEGA® Fuse is designed for high current circuit protection up to 500A with “Diffusion Pill Technology.” The MEGA® Fuse also provides time delay characteristics. Designed and patented by Littelfuse, the MEGA® Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.

Specifications

| | |
|------------------------------|---|
| Interrupting Rating: | 2000A @ 32 VDC |
| Voltage Rating: | 32 VDC |
| Operating Temperature Range: | -40°C to + 125°C |
| Housing Material: | PPA-GF33HS |
| Flammability (UL 94): | HB |
| Clear Top Housing Material: | PES (top) PPA-GF33HS (bottom) |
| Terminals: | Copper (Silver plated copper available) M6 or M8 bolts available |
| Mounting Torque: | 8-14 Nm M6 12-18 Nm M8 |
| Complies with: | ISO 8820-5 |



Ordering Information

| Part Number | Rating | Package Size | Plating | Bolt Size | Bolt Hole Qty |
|---|-----------|--------------|---------|-----------|---------------|
| 0298xxx.ZXEH | 80 - 250 | 500 | None | M8 | 2 |
| 0298xxx.ZXH | 300 - 500 | 500 | None | M8 | 2 |
| 0298xxx.UX1M8 | 80 - 500 | 500 | None | M8 | 1 |
| 0298xxx.ZXB | 40 - 250 | 500 | Ag | M8 | 2 |
| 0298xxx.ZXA | 80 - 500 | 500 | None | M6 | 2 |
| MEGA Clear Top Housing Material Fuse | | | | | |
| 0298xxx.UXT | 40 - 250 | 500 | None | M8 | 2 |

Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) | |
|-------------|----------------------------|---------------|
| | 40-250 | 300-500 |
| 75 | - / - | 14,400 s / - |
| 100 | 14,400 s / - | - / - |
| 135 | 120 s / 1800 s | - / - |
| 200 | 1 s / 15 s | 1 s / 15 s |
| 350 | 0.300 s / 5 s | 0.500 s / 5 s |
| 600 | 0.100 s / 1 s | 0.100 s / 1 s |

Ratings

| Part Number | Current Rating (A) | Font Color* | Typ. Voltage Drop (mV) | Cold Resistance (mΩ) | Wire (mm ²) | I ² t (A ² s) |
|-------------|--------------------|-------------|------------------------|----------------------|-------------------------|-------------------------------------|
| 0298040._1 | 40 | - | 132 | 2.510 | 4 | 8700 |
| 0298060._1 | 60 | - | 119 | 1.504 | 6 | 21000 |
| 0298080._ | 80 | Red | 87 | 0.720 | 10 | 21500 |
| 0298100._ | 100 | Yellow | 87 | 0.562 | 16 | 31100 |
| 0298125._ | 125 | Green | 80 | 0.423 | 16 | 57800 |
| 0298150._ | 150 | Orange | 92 | 0.352 | 25 | 100000 |
| 0298175._ | 175 | White | 86 | 0.294 | 25 | 168000 |
| 0298200._ | 200 | Blue | 83 | 0.257 | 35 | 204000 |
| 0298225._ | 225 | Brown | 82 | 0.222 | 35 | 257000 |
| 0298250._ | 250 | Pink | 82 | 0.201 | 50 | 389000 |
| 0298300._2 | 300 | Grey | 74 ** | 0.167 | 70 | 315000 |
| 0298350._2 | 350 | Dark Green | 68 ** | 0.138 | 70 | 500000 |
| 0298400._2 | 400 | Purple | 64 ** | 0.126 | 70 | 610000 |
| 0298450._2 | 450 | Yellow | 60 ** | 0.112 | 70 | 1050000 |
| 0298500._2 | 500 | Brown | 58 ** | 0.092 | 70 | 2050000 |

Note 1: Not mentioned in ISO standards Note 2: Short Circuit Protector only

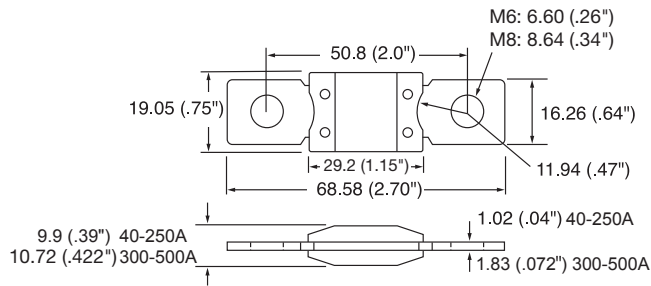
* 0298xxx.ZXB has white font color on all ratings.

** Voltage Drop measurements for short circuit protectors taken at 75% of rated current.

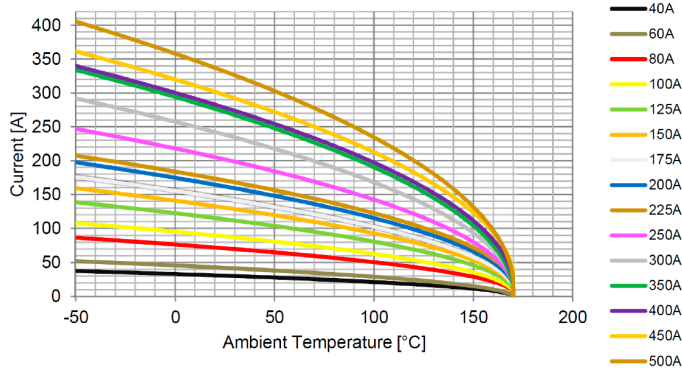
MEGA® Fuse Rated 32V

Dimensions

Dimensions in mm



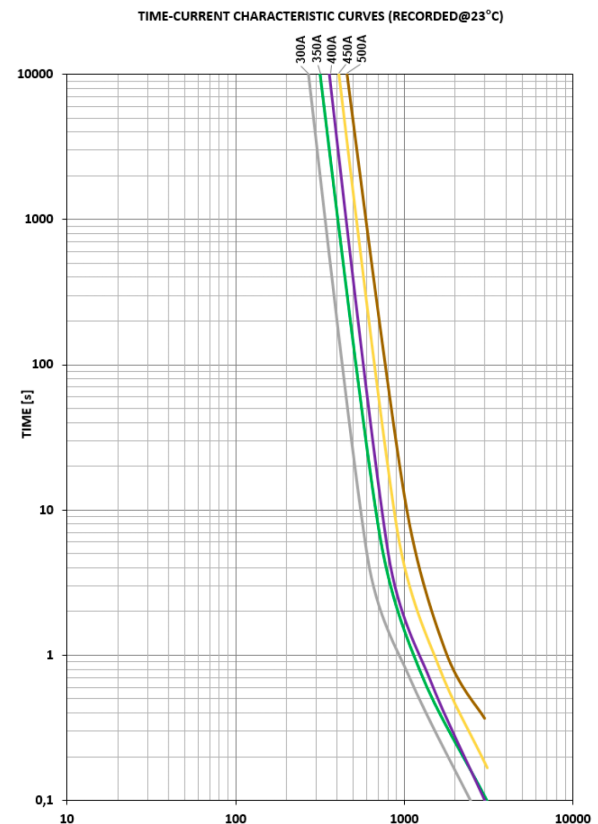
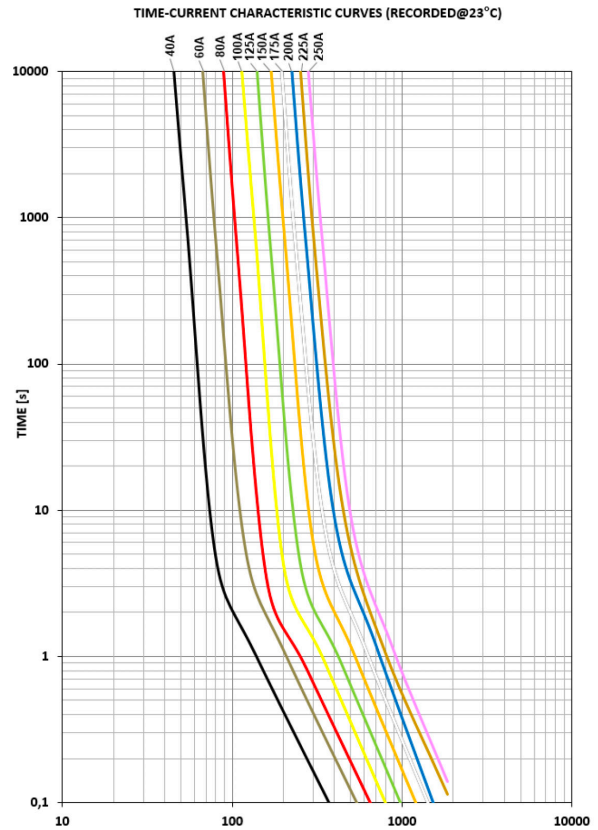
Typical Derating



Temperature Security Margin is 20%
Wire Cross Sections And Test Fixture acc. ISO 8820-5

| max. allowed current load [A] at ambient temperature | | | | | | | | |
|--|-------|-----|------|------|------|------|-------|-------|
| | -20°C | 0°C | 20°C | 65°C | 85°C | 95°C | 105°C | 125°C |
| 40A | 35 | 33 | 31 | 26 | 23 | 22 | 20 | 17 |
| 60A | 48 | 46 | 43 | 36 | 32 | 30 | 28 | 23 |
| 80A | 81 | 76 | 72 | 61 | 55 | 52 | 49 | 41 |
| 100A | 101 | 95 | 90 | 76 | 69 | 65 | 61 | 51 |
| 125A | 129 | 123 | 116 | 98 | 88 | 83 | 78 | 66 |
| 150A | 149 | 141 | 133 | 112 | 102 | 96 | 90 | 76 |
| 175A | 164 | 156 | 147 | 124 | 112 | 106 | 99 | 84 |
| 200A | 184 | 175 | 165 | 139 | 126 | 119 | 112 | 94 |
| 225A | 194 | 184 | 174 | 147 | 134 | 127 | 119 | 101 |
| 250A | 230 | 218 | 205 | 173 | 157 | 147 | 138 | 116 |
| 300A | 272 | 258 | 242 | 204 | 184 | 174 | 162 | 136 |
| 350A | 311 | 294 | 277 | 232 | 209 | 197 | 184 | 154 |
| 400A | 317 | 300 | 283 | 239 | 216 | 204 | 191 | 161 |
| 450A | 337 | 320 | 302 | 256 | 232 | 219 | 206 | 175 |
| 500A | 378 | 358 | 337 | 284 | 257 | 242 | 227 | 191 |

Time-Current Characteristic Curves



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