



Bolt Down Versions



Clinch Versions
(1 Hole and No Holes variants)

MEGA+® 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.

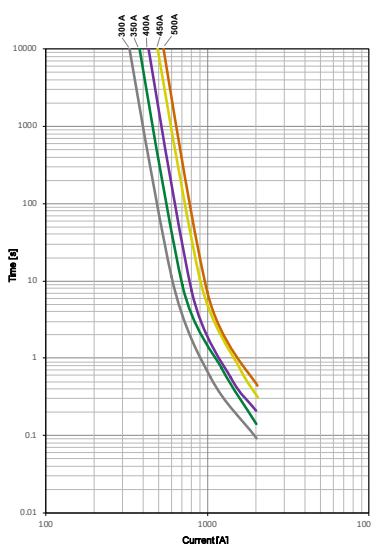
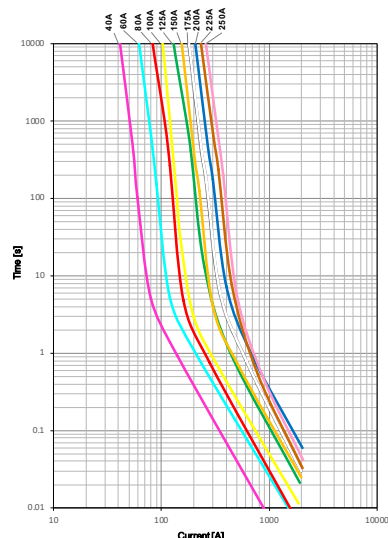
Specifications

| | |
|--|---|
| Voltage Rating: | 32VDC |
| Interrupting Rating: | 2000A @ 32VDC |
| Recommended Environmental Temperature: | -40°C to +125°C |
| Terminals Material: | Tin Plated Copper Alloy |
| Housing Material: | PET-GF30FR (U.L. 94 Flammability rating - V-0) |
| Net Weight Per Fuse: | 11.6±15% gr |
| M6 Mounting Torque: | 8-14Nm - Recommended Range Value |
| M8 Mounting Torque: | 12-18Nm - Recommended Range Value (25Nm Max Allowed) (ISO prescription 12±1Nm) |
| Refers to: | ISO 8820-5 |



Time-Current Characteristic Curves

TIME-CURRENT CHARACTERISTIC CURVES (RECORDED @ 23°C)



Ordering Information

| Part Number | Rating | Package Size | Bolt Size | Bolt Hole Qty | % of Rating | Opening Time Min / Max (s) | | |
|-----------------|----------|--------------|-----------|---------------|-------------|----------------------------|------------|------------|
| | | | | | | 40A-250A | 300A | 350A-500A |
| 0298XXX.UXP-2M8 | 40 - 500 | 500 | M8 | 2 | 75 | - / - | 14,400 / ∞ | 14,400 / ∞ |
| 0298XXX.UXP-1M8 | 40 - 500 | 500 | M8 | 1 | 100 | 14,400 / ∞ | - / - | - / - |
| 0298XXX.UXP-2M6 | 40 - 500 | 500 | M6 | 2 | 135 | 120 / 1800 | - / - | - / - |
| 0298XXX.UXP-1M6 | 40 - 500 | 500 | M6 | 1 | 150 | 20 / 450 | - / - | - / - |
| 0298XXX.UXP-NH | 40 - 500 | 500 | N/A | 0 | 200 | 1 / 15 | 1 / 15 | 1 / 15 |
| | | | | | 350 | 0.3 / 5 | 0.5 / 5 | 0.5 / 5 |
| | | | | | 500 | - / - | 0.1 / 2 | 0.1 / 2 |
| | | | | | 600 | 0.1 / 1 | 0.1 / 1 | - / - |

Time-Current Characteristics

Ratings

| Part Number | Current Rating (A) | Color Code ⁴ | Test Cable size (mm ²) | Typ. Voltage Drop at 100% I _r (mV) | Typ. Cold Resistance (mΩ) | Typ. I ² t (A ² s) |
|-------------|--------------------|-------------------------|------------------------------------|---|---------------------------|--|
| 0298040_1 | 40 | | 4 | 86.9 | 1.52 | 6,600 |
| 0298060_1 | 60 | | 6 | 88.5 | 0.95 | 22,200 |
| 0298080_ | 80 | | 10 | 77.1 | 0.66 | 22,900 |
| 0298100_ | 100 | | 16 | 85.9 | 0.55 | 27,600 |
| 0298125_ | 125 | | 16 | 79.0 | 0.41 | 78,000 |
| 0298150_ | 150 | | 25 | 90.9 | 0.34 | 97,300 |
| 0298175_ | 175 | | 25 | 77.3 | 0.28 | 205,500 |
| 0298200_ | 200 | | 35 | 92.8 | 0.26 | 245,800 |
| 0298225_ | 225 | | 35 | 83.5 | 0.21 | 135,300 |
| 0298250_ | 250 | | 50 | 85.8 | 0.19 | 176,200 |
| 0298300_2 | 300 | | 70 | 45.3 ³ | 0.16 | 378,900 |
| 0298350_2 | 350 | | 70 | 48.2 ³ | 0.13 | 573,000 |
| 0298400_2 | 400 | | 70 | 52.0 ³ | 0.12 | 844,400 |
| 0298450_2 | 450 | | 70 | 58.3 ³ | 0.11 | 1,323,600 |
| 0298500_2 | 500 | | 70 | 57.5 ³ | 0.09 | 1,850,200 |

Note 1: Not mentioned in ISO standards

Note 2: Short Circuit Protector only

Note 3: Voltage Drop measurements for short circuit protectors taken at 75% of rated current.

Note 4: Color Code Applicable for the UXP-2M8 and UXP-2M6 versions only - Not applicable for UXP-1M6, UXP-1M8 and UXP-NH clinch versions that have the High Contrast Mark (White Color Only)

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

REV07272021

Littelfuse® products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse® product documentation. Warranties granted by Littelfuse® shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse® documentation. Littelfuse® shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse® as set forth in applicable Littelfuse® documentation. The sale and use of Littelfuse® products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse®.

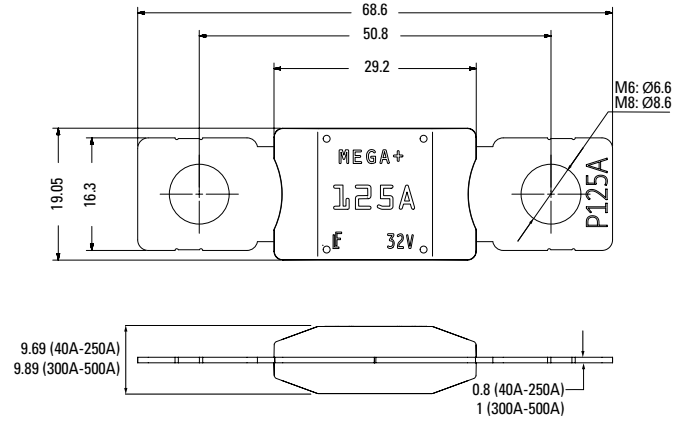
MEGA+® Fuses Rated 32V

Dimensions

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

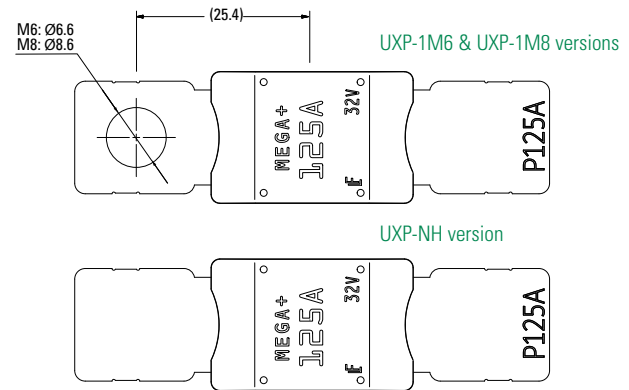
Marking Type "A"

Color Code Rating Mark Applicable for the UXP-2M8 and UXP-2M6 versions only



Marking Type "B"

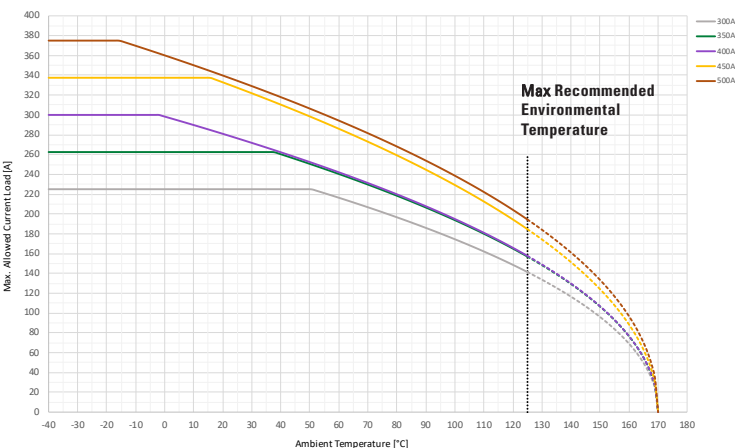
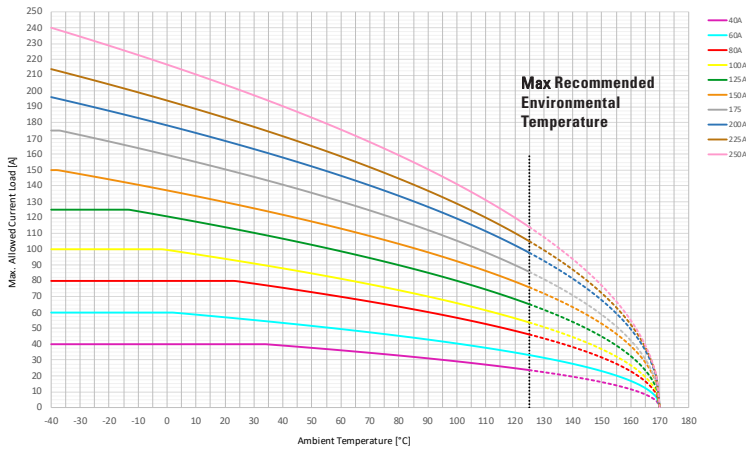
High Contrast Mark (White Color Only - No Color Code) applicable for UXP-1M6, UXP-1M8 and UXP-NH clinch versions



Typical Derating Of Fuse Melting Element

Temperature Security Margin is 20%

Please Contact Littelfuse® For Details Regarding Derating Test Set Up



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 |
| 40A | 40 | 40 | 40 | 35 | 32 | 27 | 24 |
| 60A | 60 | 60 | 57 | 49 | 44 | 38 | 33 |
| 80A | 80 | 80 | 80 | 68 | 62 | 53 | 46 |
| 100A | 100 | 100 | 94 | 80 | 72 | 61 | 54 |
| 125A | 125 | 121 | 114 | 97 | 88 | 75 | 65 |
| 150A | 150 | 137 | 130 | 111 | 101 | 86 | 76 |
| 175A | 175 | 160 | 151 | 127 | 115 | 98 | 86 |
| 200A | 196 | 178 | 168 | 143 | 130 | 111 | 98 |
| 225A | 214 | 194 | 183 | 155 | 141 | 120 | 105 |
| 250A | 240 | 217 | 204 | 172 | 155 | 131 | 114 |
| 300A | 225 | 225 | 225 | 212 | 191 | 162 | 141 |
| 350A | 263 | 263 | 263 | 235 | 213 | 180 | 157 |
| 400A | 300 | 298 | 281 | 237 | 214 | 181 | 158 |
| 450A | 338 | 338 | 333 | 280 | 252 | 213 | 185 |
| 500A | 375 | 360 | 340 | 288 | 261 | 222 | 194 |

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

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