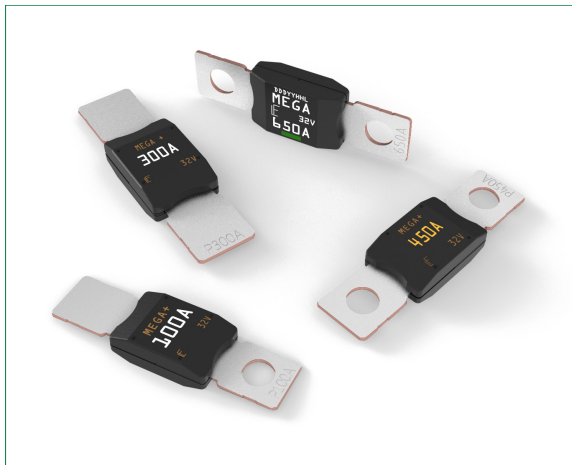


# MEGA® +

## Rated 32 V DC

RoHS



### Description

The MEGA+® Fuse is designed for high current circuit protection up to 650A 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.

### Features & Benefits

- Interrupting Rating of 2000A @ 32 Vdc
- Voltage Rating of 32 Vdc
- Operates from -40 °C to +125 °C
- Mounting Torque M8 of 12+-1 Nm (Max. allowed up to 25 Nm ten times for the ratings 40A to 500A; 20 Nm one time for the 650 A rating)
- Mounting Torque M6 of 9 ±1 Nm (Max. allowed 14 Nm)
- Terminals in tin plated copper alloy
- Housing in PET-GF30FR (U.L.94 Flammability rating - V0)
- Refers to ISO 8820-8

### Applications

- Cars
- Trucks
- SUVs
- Offroad vehicles
- Buses
- Watercraft

















### Ordering Information

Part Number	Rating	Termination	Bolt Hole Q.ty	Package Size
0298xxx.UXP-2M8	40 A - 500 A	M8 Bolt Down	2	500
0298xxx.UXP-1M8	40 A - 500 A	M8 Bolt Down	1	500
0298xxx.UXP-2M6	40 A - 500 A	M8 Bolt Down	2	500
0298xxx.UXP-1M6	40 A - 500 A	M8 Bolt Down	1	500
0298xxx.UXP-NH	40 A - 500 A	M8 Bolt Down	0	500
<b>MEGA+ 650 A</b>				
0298650.U-2M8	650 A	M8 Bolt Down	2	500
0298650.U-2M6	650 A	M6 Bolt Down	2	500

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### Ratings

Part Number	Current Rating (A)	Color Coding <sup>4</sup>	Test Cable Size (mm <sup>2</sup> )	Typical Voltage Drop at 100% I <sub>r</sub> (mV)	Typical Cold Resistance (mΩ)	Typical Melting I <sup>2</sup> t (A <sup>2</sup> s)
0298040._ <sup>1</sup>	40		4	87	1.52	6,600
0298060._ <sup>1</sup>	60		6	88	0.95	22,200
0298080._	80		10	77	0.66	22,900
0298100._	100		16	86	0.55	27,600
0298125._	125		16	79	0.41	78,000
0298150._	150		25	91	0.34	97,300
0298175._	175		25	77	0.28	205,500
0298200._	200		35	93	0.26	245,800
0298225._	225		35	84	0.21	135,300
0298250._	250		50	86	0.19	176,200
0298300._ <sup>2</sup>	300		70	45 <sup>3</sup>	0.16	378,900
0298350._ <sup>2</sup>	350		70	48 <sup>3</sup>	0.13	573,000
0298400._ <sup>2</sup>	400		70	52 <sup>3</sup>	0.12	844,400
0298450._ <sup>2</sup>	450		70	58 <sup>3</sup>	0.11	1,323,600
0298500._ <sup>2</sup>	500		70	58 <sup>3</sup>	0.09	1,850,200
0298650._ <sup>2</sup>	650		95	55 <sup>3</sup>	0.07	4,202,800

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.

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).

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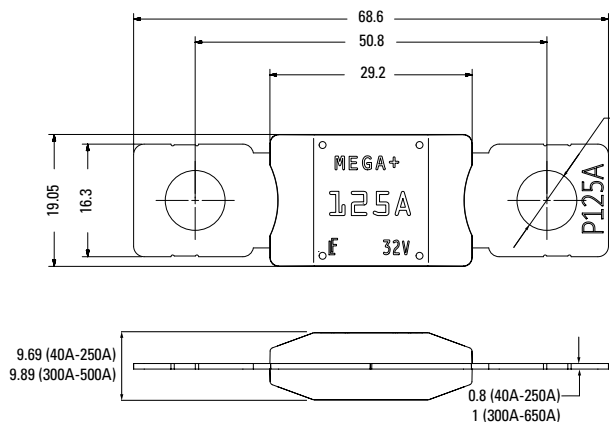
## Rated 32 V DC

### Dimensions

Dimensions in mm. Please refer to the outline drawing for dimensions, tolerances and markings.

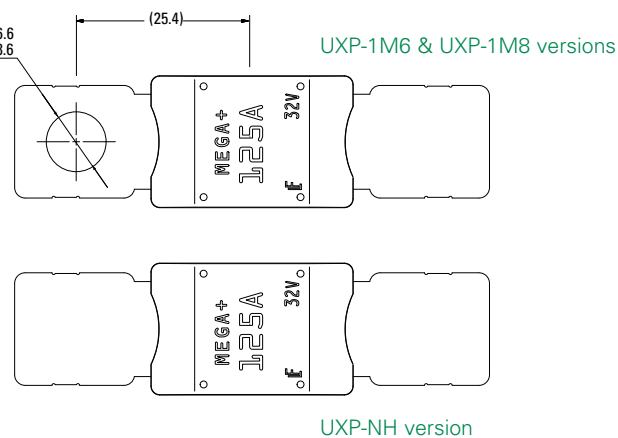
#### Marking Type "A"

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



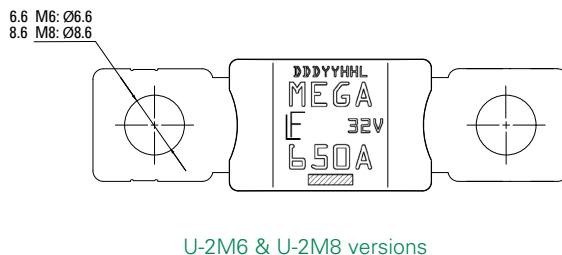
#### Marking Type "B"

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



#### Marking Type "C"

Color Code Bar Hot Stamped applicable for U-2M8 and U-2M6 versions (650 A fuse rating) on one side only

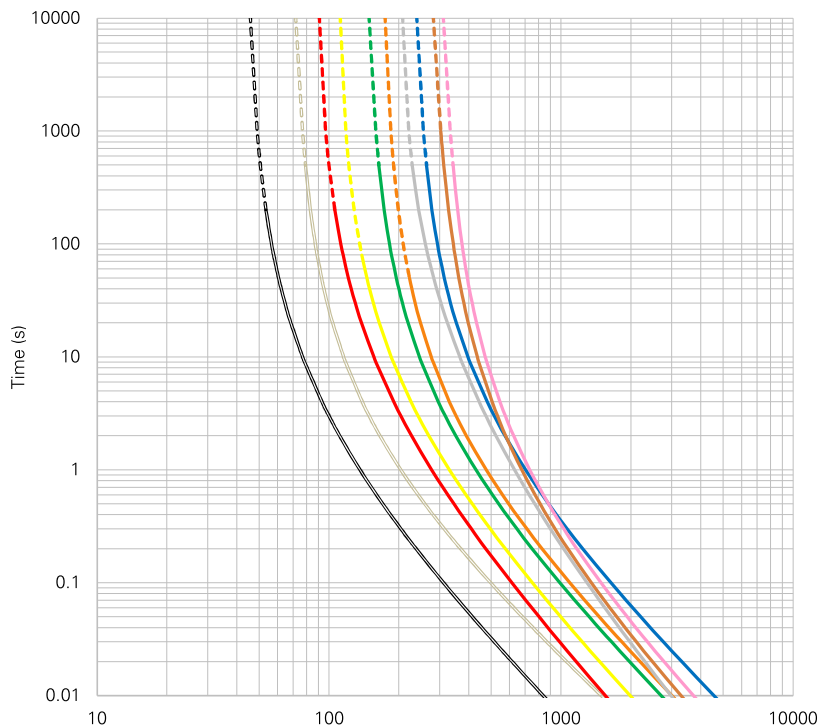


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## Rated 32 V DC

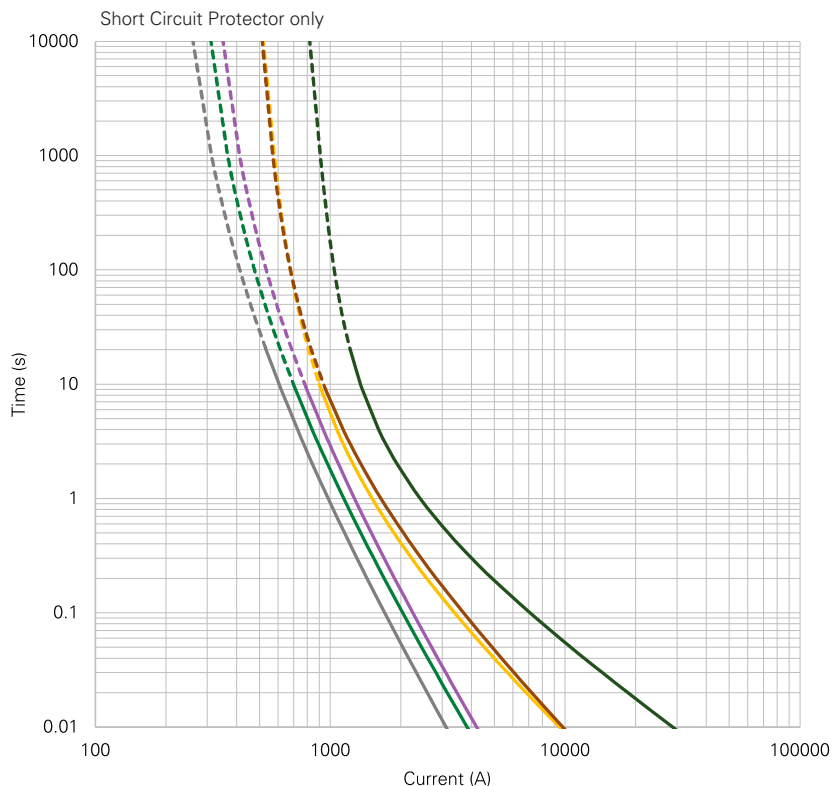
### Time-Current Characteristic

Please contact Littelfuse® for Details Regarding Test Set Up



% of Rating	Opening Time Min. / Max. (s)			
	40 A - 250 A	300 A	350 A - 500 A	650 A
75	- / -	14400 / -	14400 / -	14400 / -
100	14400 / -	- / -	- / -	- / -
135	120 / 1800	- / -	- / -	- / -
150	20 / 450	- / -	- / -	- / -
200	1 / 15	1 / 15	1 / 15	1 / 15
350	0.3 / 5	0.5 / 5	0.5 / 5	0.5 / 5
500	- / -	0.1 / 2	0.1 / 2	- / -
600	0.1 / 1	0.1 / 1	- / -	0.1 / 1

- 40 A
- 60 A
- 80 A
- 100 A
- 125 A
- 150 A
- 175 A
- 200 A
- 225 A
- 250 A



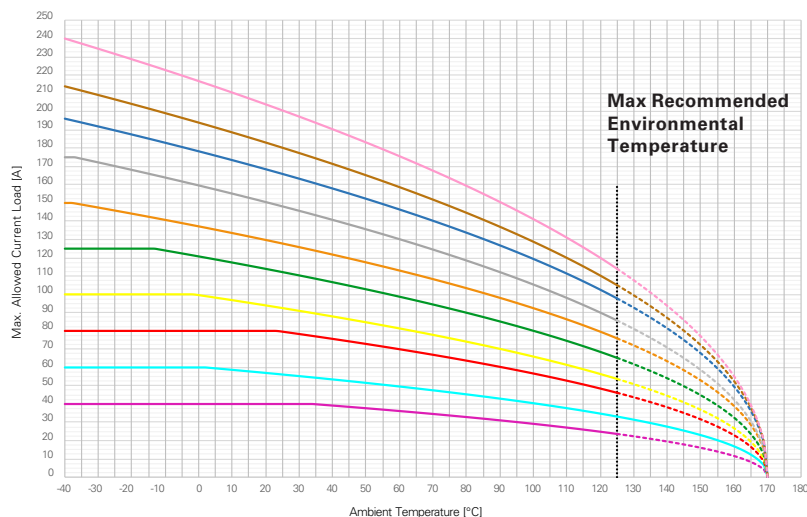
- 300 A
- 350 A
- 400 A
- 450 A
- 500 A
- 650 A

# MEGA® +

## Rated 32 V DC

### Typical Derating Curves

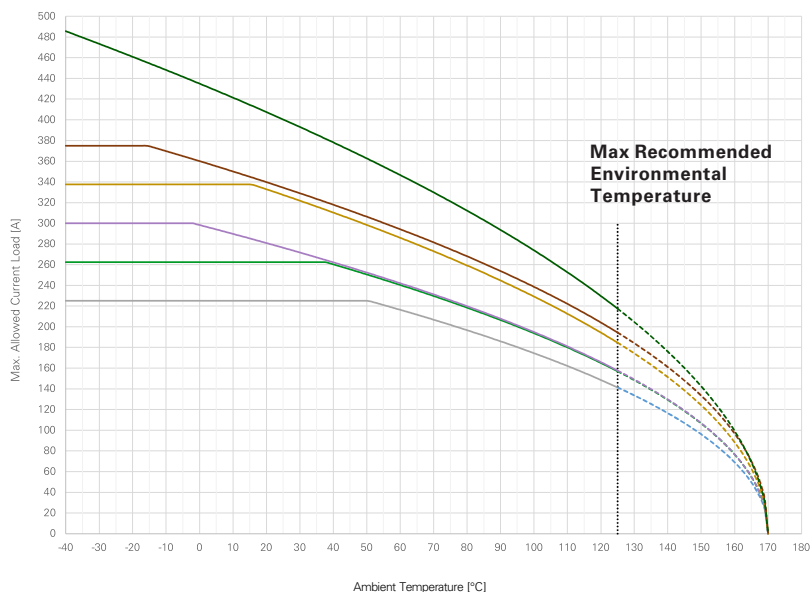
Please contact Littelfuse® for Details Regarding Derating Test Set Up



Max. Allowed Current Load (A) at Ambient Temperature based on 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
650A	486	435	407	338	303	253	217

Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc..). Please contact Littelfuse® for more information.

#### Short Circuit Protector only



- 40A
- 60A
- 80A
- 100A
- 125A
- 150A
- 175
- 200A
- 225A
- 250A
- 300A
- 350A
- 400A
- 450A
- 500A
- 650A