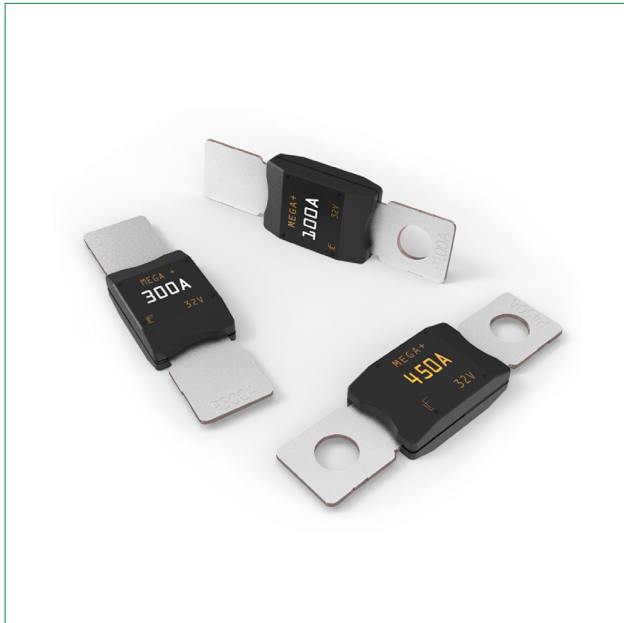


# MEGA<sup>®</sup>+ Series

## Bolt-down Fuses – Rated 32 V DC

RoHS


### Description

The MEGA+<sup>®</sup> Fuse is designed for high current circuit protection up to 650A with “Diffusion Pill Technology.” The MEGA+<sup>®</sup> Fuse also provides time delay characteristics. Designed and patented by Littelfuse, the MEGA+<sup>®</sup> Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultrahigh current protection.

### Features & Benefits

- Mounting Torque M6 of  $9 \pm 1$  Nm (Max. allowed 14 Nm)
- Mounting Torque M8 of  $12 \pm 1$  Nm (Max. allowed 18 Nm)
- High-contrast color coding on housing aids identification
- Terminals in tin plated copper alloy
- Housing in PET-GF30FR (U.L.94 Flammability rating - V0)
- Refers to ISO 8820-5

### Applications

- Cars / SUVs
- Trucks
- Offroad vehicles
- Buses
- Watercraft as approved by Littelfuse<sup>®</sup>

[See Disclaimer Notice](#)

### Specifications

<b>Voltage Rating:</b>	32 V DC
<b>Interrupting Rating:</b>	2000 A @ 32 V DC
<b>Recommended Environmental Temperature:</b>	-40 °C to +125 °C
<b>Terminals Material:</b>	Tin-plated copper alloy
<b>Housing Material:</b>	PET-GF30FR (UL 94 Flammability rating of V0)
<b>Typical Weight per Fuse:</b>	12.0 g
<b>Mounting Torque M6:</b>	9 Nm $\pm$ 1 Nm (Max. allowed 14 Nm)
<b>Mounting Torque M8:</b>	12 Nm $\pm$ 1 Nm (Max. allowed 18 Nm)
<b>Refer to:</b>	ISO 8820-5

### Additional Information



Resources



Samples

















### Ordering Information

Part Name	Part Number	Current Rating (A)	Termination	Bolt Hole Qty.	Package Size
MEGA+	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	M6 Bolt Down	2	500
	0298xxx.UXP-1M6	40 A - 500 A	M6 Bolt Down	1	500
	0298xxx.UXP-NH	40 A - 500 A	-	-	500
MEGA+ 650 A	0298650.U-2M8	650 A	M8 Bolt Down	2	500
	0298650.U-2M6	650 A	M6 Bolt Down	2	500

# MEGA<sup>®</sup>+ Series

## Bolt-down Fuses – Rated 32 V DC

### Ratings

Part Number	Current Rating (A)	Color Coding <sup>4</sup>	Test Cable Size (mm <sup>2</sup> )	Typ. Voltage Drop at 100% I <sub>r</sub> (mV)	Typ. Cold Resistance (mΩ)	Typ. I <sup>2</sup> t (A <sup>2</sup> s)
0298040_ <sup>1</sup>	40		4	87	1.52	6600
0298060_ <sup>1</sup>	60		6	88	0.95	22 200
0298080_	80		10	77	0.66	22 900
02980100_	100		16	86	0.55	27 600
02980125_	125		16	79	0.41	78 000
02980150_	150		25	91	0.34	97 300
02980175_	175		25	77	0.28	205 500
02980200_	200		35	93	0.26	245 800
02980225_	225		35	84	0.21	135 300
02980250_	250		50	86	0.19	176 200
02980300_ <sup>2</sup>	300		70	45 <sup>3</sup>	0.16	378 900
02980350_ <sup>2</sup>	350		70	48 <sup>3</sup>	0.13	573 000
02980400_ <sup>2</sup>	400		70	52 <sup>3</sup>	0.12	844 400
02980450_ <sup>2</sup>	450		70	58 <sup>3</sup>	0.11	1 323 600
02980500_ <sup>2</sup>	500		70	58 <sup>3</sup>	0.09	1 850 200
02980650_ <sup>2</sup>	650		95	55 <sup>3</sup>	0.07	4 202 800

**1:** Not mentioned in ISO standards

**2:** Short Circuit Protector only

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

**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).

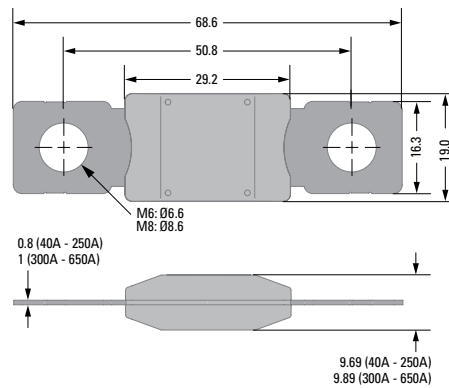
**Note:** The typical I<sup>2</sup>t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

# MEGA<sup>®</sup>+ Series

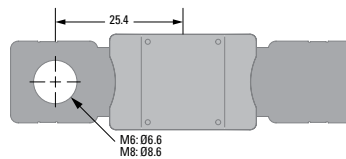
## Bolt-down Fuses – Rated 32 V DC

### Dimensions

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



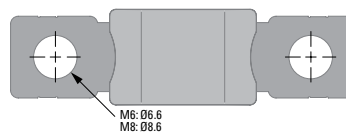
#### UXP-1M6 & UXP-1M8 versions



#### UXP-NH version



#### U-2M6 & U-2M8 versions



**Marking Type "A":** Color Code Rating Mark Applicable for the UXP-2M8 and UXP-2M6 versions only.

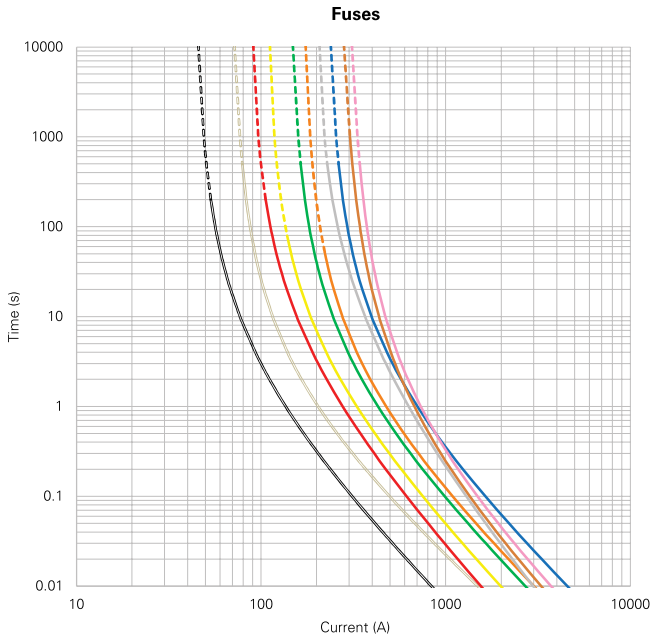
**Marking Type "B":** High Contrast Mark (White Color Only - No Color Code) applicable for UXP-1M6, UXP-1M8 and UXP-NH clinch versions.

**Marking Type "C":** Color Code Bar Hot Stamped applicable for U-2M8 and U-2M6 versions (650 A fuse rating) on one side only.

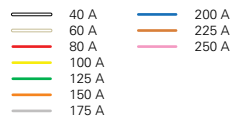
# MEGA<sup>®</sup>+ Series

## Bolt-down Fuses – Rated 32 V DC

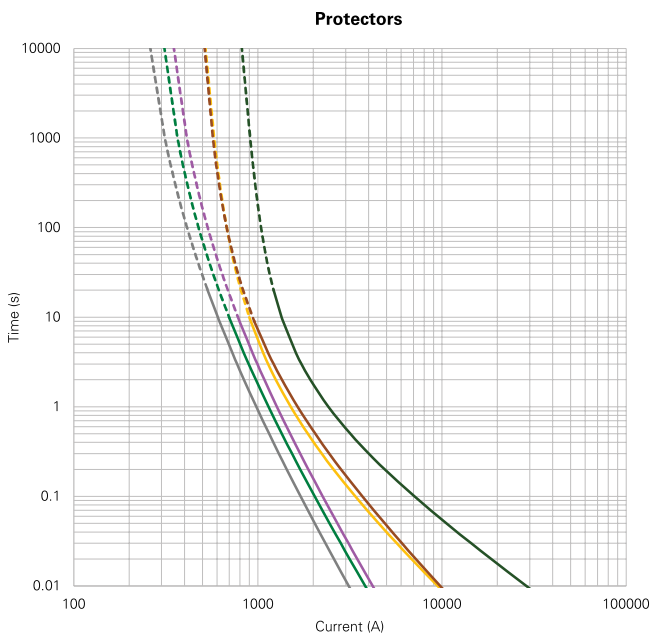
### Time-Current Characteristic



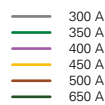
% of Rating	Opening Time Min. / Max. (s)	
	40 A - 250 A	
75	- / -	
100	14 400 / -	
135	120 / 1800	
150	20 / 450	
200	1 / 15	
350	0.3 / 5	
500	- / -	
600	0.1 / 1	



**Note:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse<sup>®</sup> for more information.



% of Rating	Opening Time Min. / Max. (s)	
	300 A - 500 A	650 A
75	14 400 / -	14 400 / -
100	- / -	- / -
135	- / -	- / -
150	- / -	- / -
200	1 / 15	1 / 15
350	0.5 / 5	0.5 / 5
500	0.1 / 2	- / -
600	- / -	0.1 / 1



**Note:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse<sup>®</sup> for more information.

# MEGA<sup>®</sup>+ Series

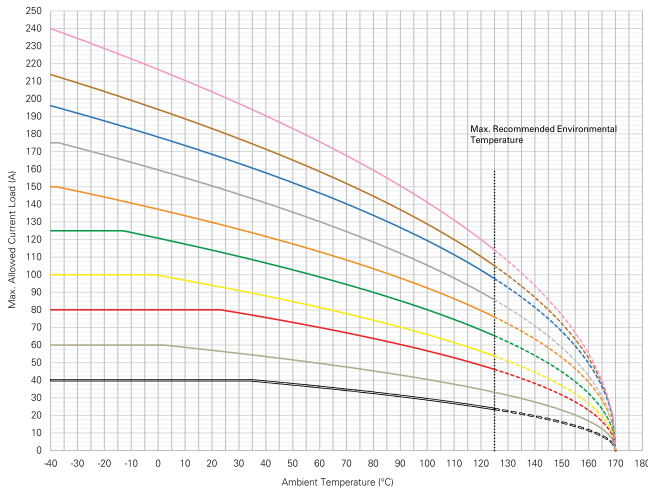
## Bolt-down Fuses – Rated 32 V DC

### Typical Derating Curves

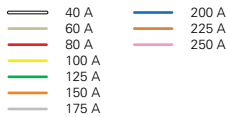
Temperature security margin is 20%.

Please contact Littelfuse<sup>®</sup> for Details Regarding Derating Test Set Up.

Fuses

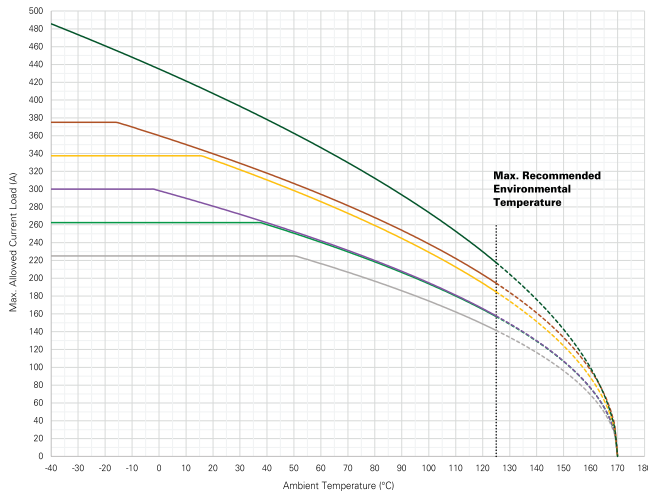


Max. allowed current load (A) at ambient temperature based on typical derating							
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
<b>40 A</b>	40	40	40	35	32	27	24
<b>60 A</b>	60	60	57	49	44	38	33
<b>80 A</b>	80	80	80	68	62	53	46
<b>100 A</b>	100	100	94	80	72	61	54
<b>125 A</b>	125	121	114	97	88	75	65
<b>150 A</b>	150	137	130	111	101	86	76
<b>175 A</b>	175	160	151	127	115	98	86
<b>200 A</b>	196	178	168	143	130	111	98
<b>225 A</b>	214	194	183	155	141	120	105
<b>250 A</b>	240	217	204	172	155	131	114

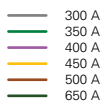


**Note:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse<sup>®</sup> for more information.

Protectors



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
<b>300 A</b>	225	225	225	212	191	162	141
<b>350 A</b>	263	263	263	235	213	180	157
<b>400 A</b>	300	300	300	237	214	181	158
<b>450 A</b>	338	338	333	280	252	213	185
<b>500 A</b>	375	360	340	288	261	222	194
<b>650 A</b>	486	435	407	338	303	253	217



**Note:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse<sup>®</sup> for more information.

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