

# MEGA<sup>®</sup>+ RIVET Series

## Bolt-down Fuses – Rated 32 V DC

RoHS



### Description

The MEGA<sup>®</sup> RIVET fuse is designed for high current circuit protection and provides time delay characteristics.

Available in different mounting configurations, the MEGA<sup>®</sup> RIVET fuse covers a wide range of rating (**80 A up to 500 A**) with the same terminal thickness of 0.8 mm.

The four metal rivets improve the mechanical resistance to stress, tightening torques and forces generated by eventual short-circuits, making this new bolt-down fuse extremely robust. High contrast OCR white marking is ideal for camera reading in the assembly lines.

The MEGA<sup>®</sup> RIVET Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.

### Features & Benefits

- High tightening torque (up to 25 Nm for M8 versions)
- Terminals in tin plated copper alloy
- Clinch version available
- Housing in PET-GF30FR (U.L.94 Flammability rating -V0)
- High-contrast white OCR markings easily readable by cameras and naked eye
- Refers to ISO 8820-5

### Applications

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

[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>	8 - 14 Nm (Recommended range value)
<b>Mounting Torque M8:</b>	12 - 18 Nm (Recommended range value) 25 Nm max. allowed
<b>Refer to:</b>	ISO 8820-5

### Additional Information



Resources



Samples














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### Ordering Information

Part Number	Current Rating (A)	Termination	Bolt Hole Qty.	Package Size
0298xxx.UXR-2M8	80 A - 500 A	M8 Bolt Down	2	500
0298xxx.UXR-1M8	80 A - 500 A	M8 Bolt Down	1	500
0298xxx.UXR-2M6	80 A - 500 A	M6 Bolt Down	2	500
0298xxx.UXR-1M6	80 A - 500 A	M6 Bolt Down	1	500
0298xxx.UXR-NH	80 A - 500 A	-	-	500

### Ratings

Part Number	Current Rating (A)	Marking Color	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)
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_1	300		70	TBD <sup>2</sup>	TBD	TBD
0298350_1	350		70	TBD <sup>2</sup>	TBD	TBD
0298400_1	400		70	TBD <sup>2</sup>	TBD	TBD
0298450_1	450		70	TBD <sup>2</sup>	TBD	TBD
0298500_1	500		70	TBD <sup>2</sup>	TBD	TBD

**Note 1:** Short Circuit Protector only, Products in development - please contact Littelfuse® for more details regarding availability timing.

**Note 2:** Voltage Drop measurements for short circuit protectors taken at 75% of rated current.

**Note 3:** 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.

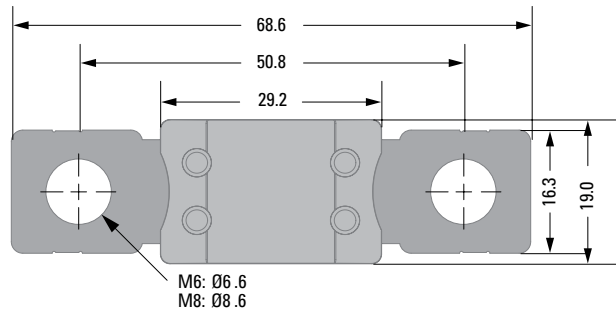
# MEGA<sup>®</sup>+ RIVET Series

## Bolt-down Fuses – Rated 32 V DC

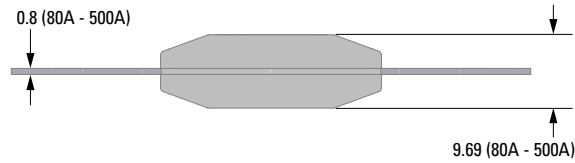
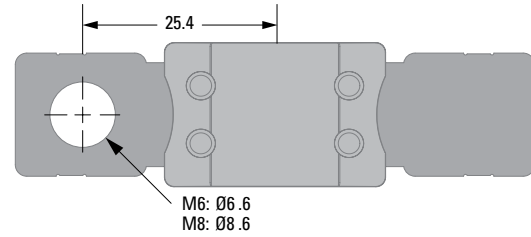
### Dimensions

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

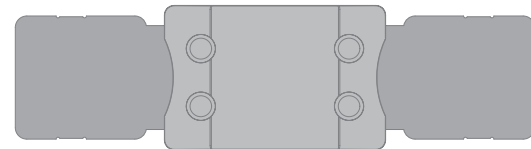
2-holes version



1-hole version



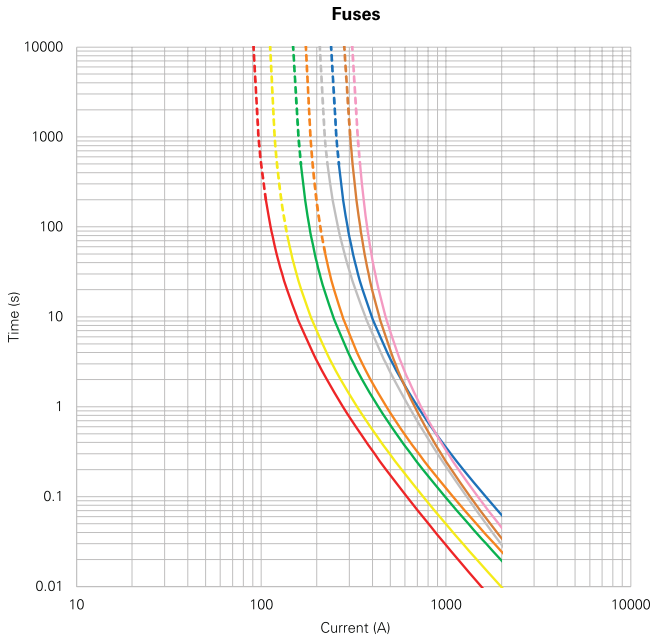
NH version



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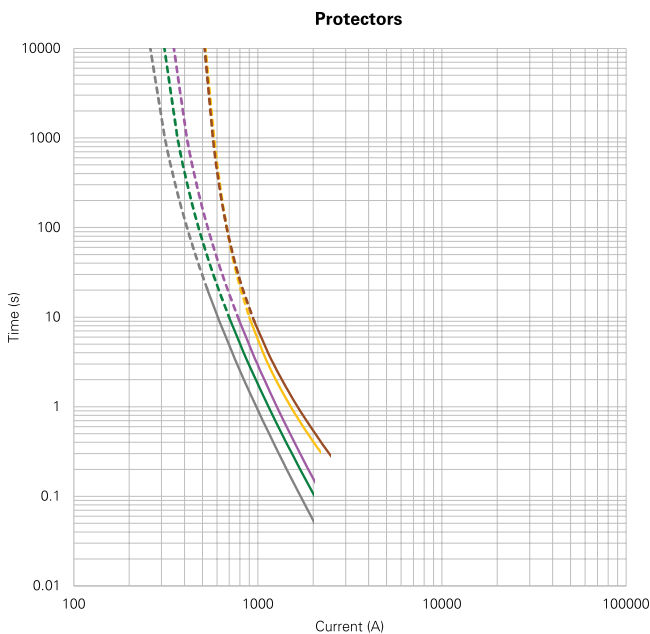
### Time-Current Characteristic



% of Rating	Opening Time Min. / Max. (s)	
	80 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	

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

**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	350 A - 500 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	0.1 / 2
600	0.1 / 1	- / -

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

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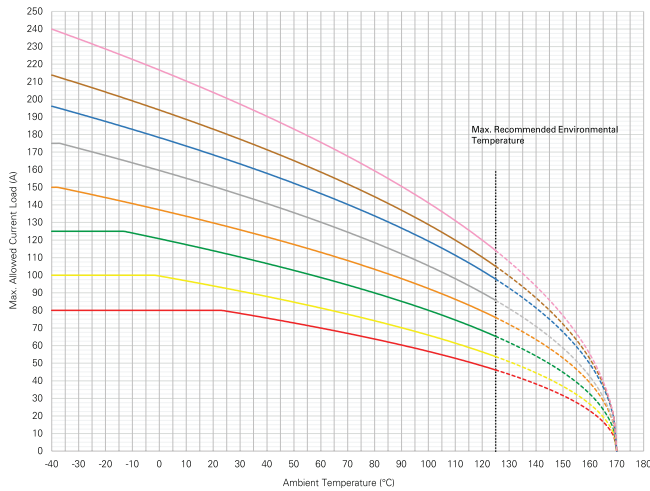
## Bolt-down Fuses – Rated 32 V DC

### Typical Derating Curves

Temperature security margin is 20%.

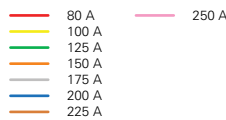
Please contact Littelfuse<sup>®</sup> for Details Regarding Derating Test Set Up.

Fuses



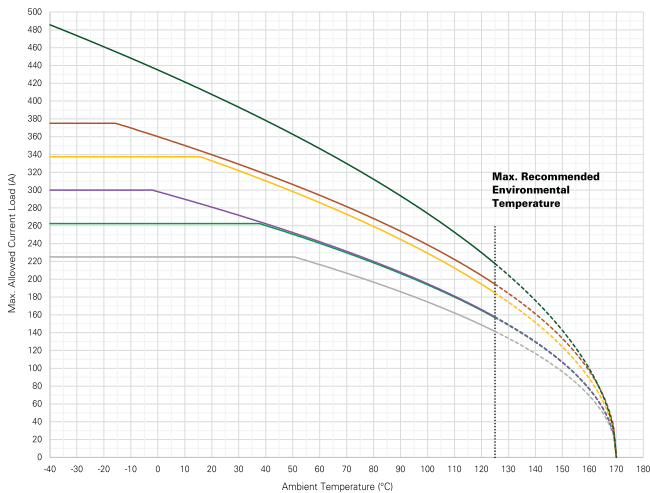
Max. allowed current load (A) at ambient temperature based on typical derating

	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
<b>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



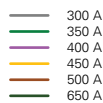
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Protectors



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



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