MEGA®+ RIVET Series

Bolt-down Fuses – Rated 32 V DC

RoHS

Additional Information

Resources

Samples

Description

The MEGA+® RIVET fuse is designed for high current circuit protection and provides time delay characteristics.
Available in different mounting configurations, the MEGA+® 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+® 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)
- Clinch version available
- High-contrast white OCR markings easily readable by cameras and naked eye
- 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®

See Disclaimer Notice

Specifications

Voltage Rating:	32 V DC
Interrupting Rating:	2000 A @ 32 V DC
Recommended Environmental Temperature:	–40 ˚C to +125 ˚C
Terminals Material:	Tin-plated copper alloy
Housing Material:	PET-GF30FR (UL 94 Flammability rating of V0)
Typical Weight per Fuse:	12.0 g
Mounting Torque M6:	8 - 14 Nm (Recommended range value)
Mounting Torque M8:	12 - 18 Nm (Recommended range value) 25 Nm max. allowed
Refer to:	ISO 8820-5

Revised: 04/15/2024

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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^2)	Typ. Voltage Drop at 100% Ir (mV)	Typ. Cold Resistance (mΩ)	Typ. I^2t (A^2s)
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[2]	TBD	TBD
0298350._[1]	350		70	TBD[2]	TBD	TBD
0298400._[1]	400		70	TBD[2]	TBD	TBD
0298450._[1]	450		70	TBD[2]	TBD	TBD
0298500._[1]	500		70	TBD[2]	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^2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

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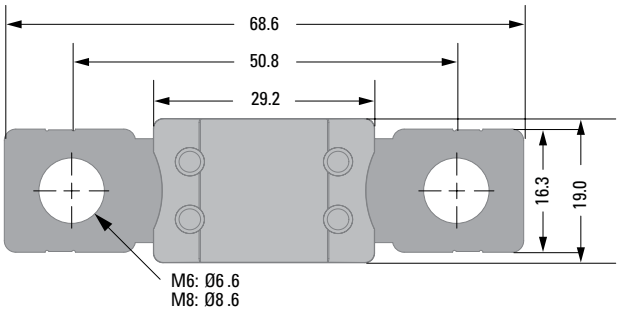
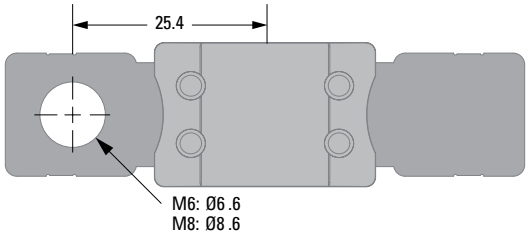
Dimensions

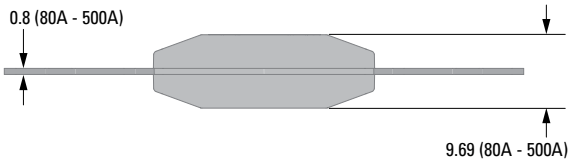
Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.

2-holes version

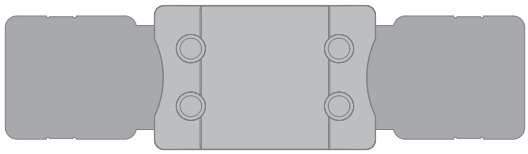


1-hole version





NH version



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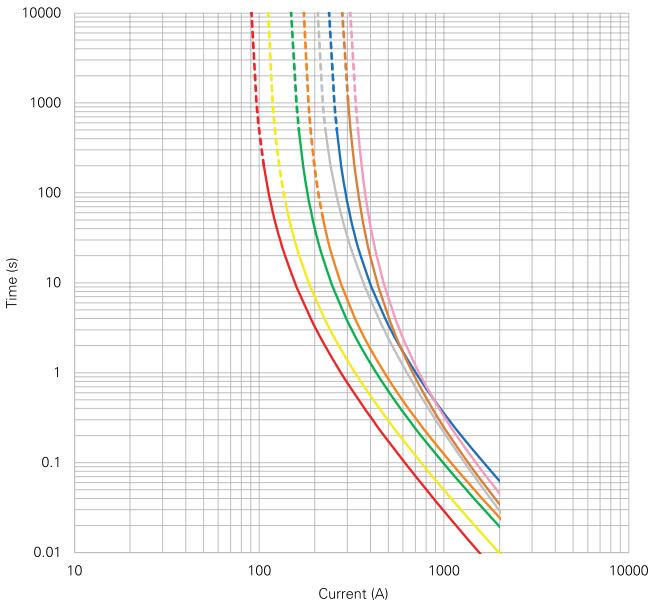
Time-Current Characteristic

Fuses

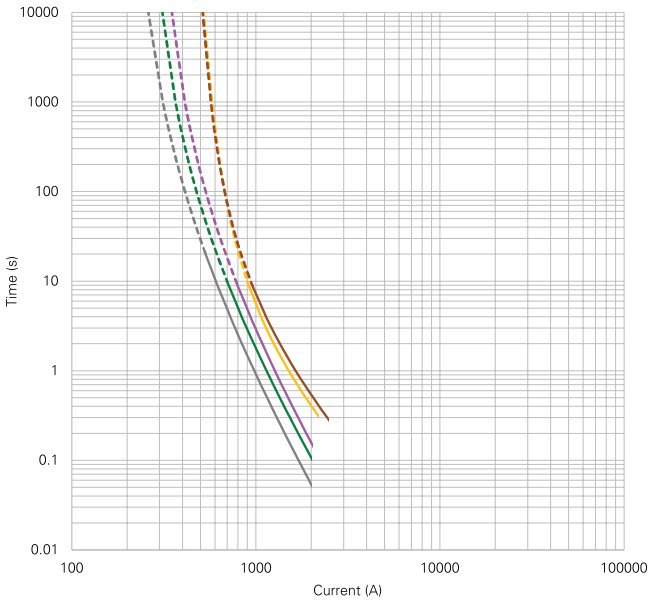


% of Rating	Opening Time Min. / Max. (s) 80 A - 250 A
75	- / -
100	14 400 / -
135	120 / 1800
150	20 / 450
200	1 / 15
350	0.3 / 5
500	- / -
600	0.1 / 1

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® for more information.

Protectors



% 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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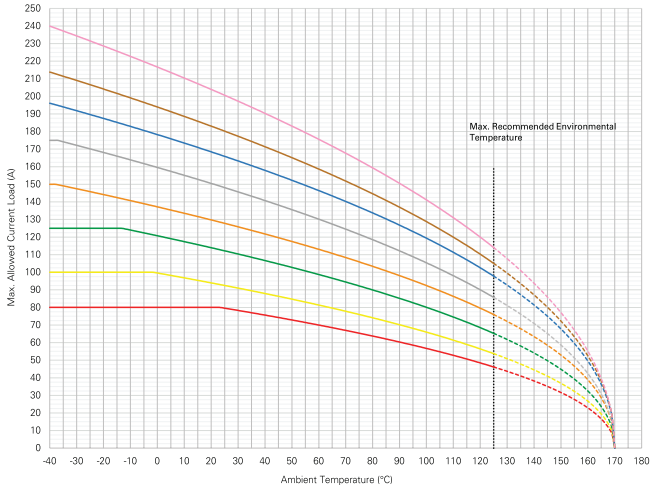
Typical Derating Curves

Temperature security margin is 20%.

Please contact Littelfuse® 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
80 A	80	80	80	68	62	53	46
100 A	100	100	94	80	72	61	54
125 A	125	121	114	97	88	75	65
150 A	150	137	130	111	101	86	76
175 A	175	160	151	127	115	98	86
200 A	196	178	168	143	130	111	98
225 A	214	194	183	155	141	120	105
250 A	240	217	204	172	155	131	114

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

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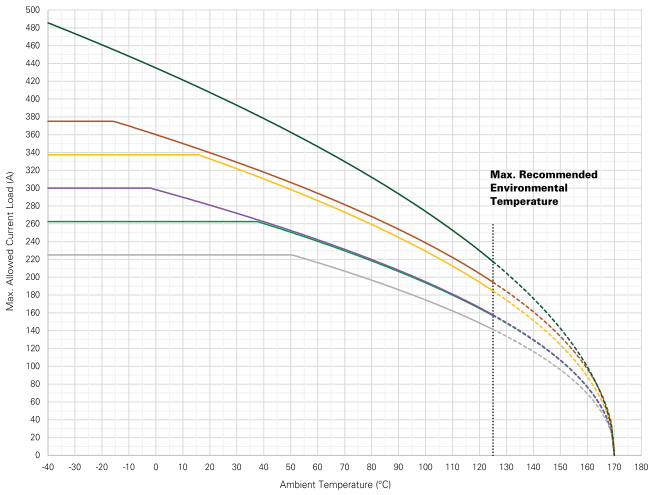
Protectors



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

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

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