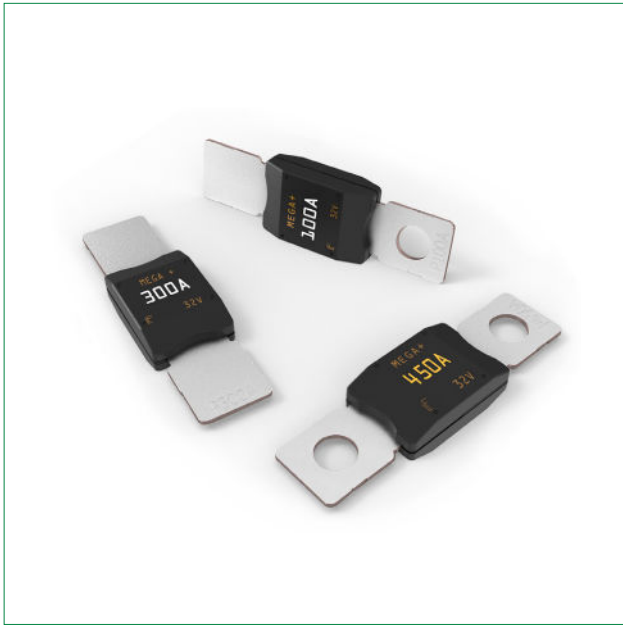


MEGA®+ Series

Bolt-down Fuses – Rated 32 V DC

RoHS



Additional Information



Resources



Samples

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 ultrahigh current protection.

Features & Benefits

- Mounting Torque M6 of 9 ± 1 Nm (Max. allowed 14 Nm)
- Mounting Torque M8 of 12 ± 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®

[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:	9 Nm $\pm$ 1 Nm (Max. allowed 14 Nm)
Mounting Torque M8:	12 Nm $\pm$ 1 Nm (Max. allowed 18 Nm)
Refer to:	ISO 8820-5

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[®]+ Series

Bolt-down Fuses – Rated 32 V DC

Ratings

Part Number	Current Rating (A)	Color Coding 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	87	1.52	6600
0298060._ ¹	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._ ²	300		70	45 ³	0.16	378 900
02980350._ ²	350		70	48 ³	0.13	573 000
02980400._ ²	400		70	52 ³	0.12	844 400
02980450._ ²	450		70	58 ³	0.11	1 323 600
02980500._ ²	500		70	58 ³	0.09	1 850 200
02980650._ ²	650		95	55 ³	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).

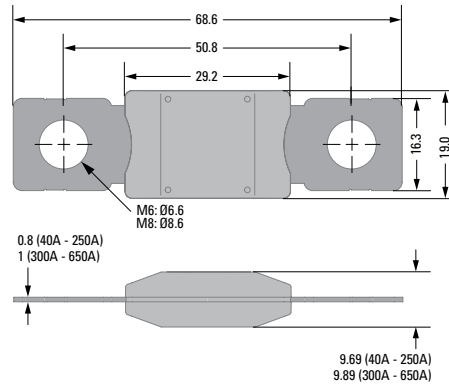
Note: The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

MEGA[®]+ Series

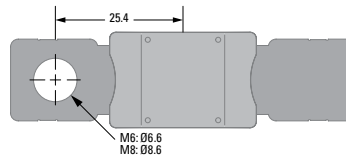
Bolt-down Fuses – Rated 32 V DC

Dimensions

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



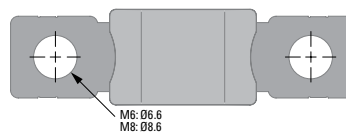
UXP-1M6 & UXP-1M8 versions



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.

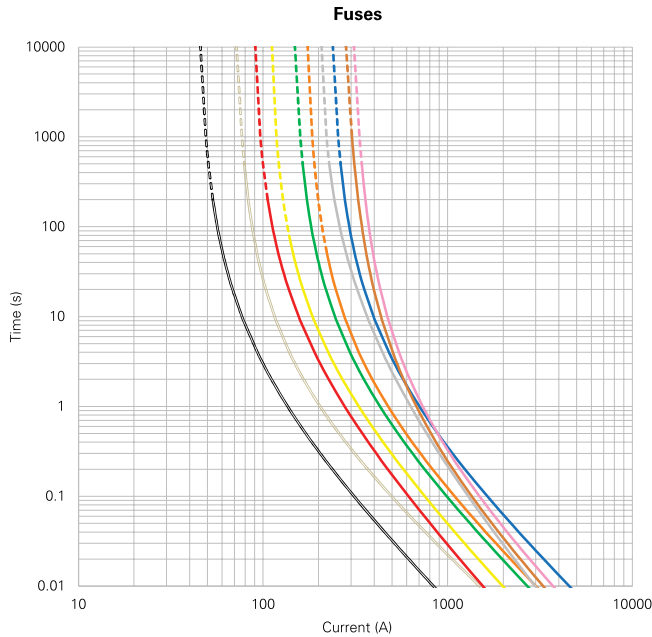
Marking Type "B": High Contrast Mark (White Color Only - No Color Code) applicable for UXP-1M6, UXP-1M8 and UXP-NH clinch versions.

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

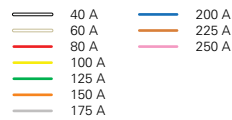
MEGA[®]+ Series

Bolt-down Fuses – Rated 32 V DC

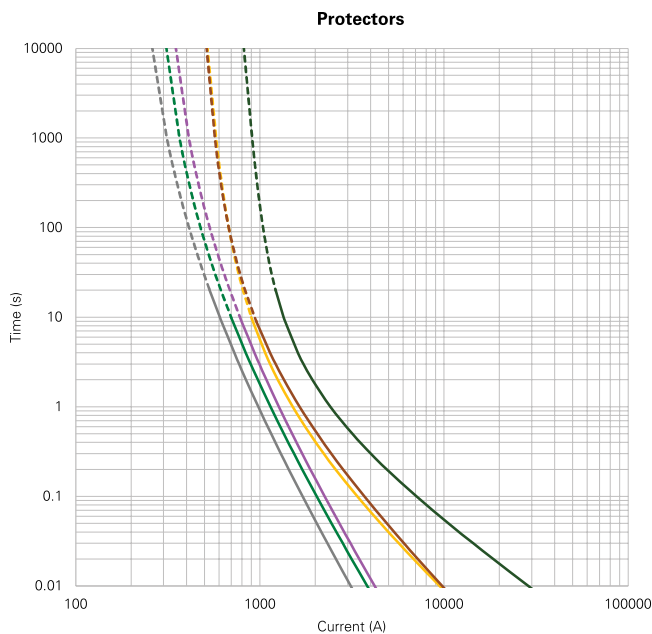
Time-Current Characteristic



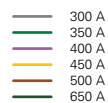
% of Rating	Opening Time Min. / Max. (s)
	40 A - 250 A
75	- / -
100	14 400 / -
135	120 / 1800
150	20 / 450
200	1 / 15
350	0.3 / 5
500	- / -
600	0.1 / 1



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

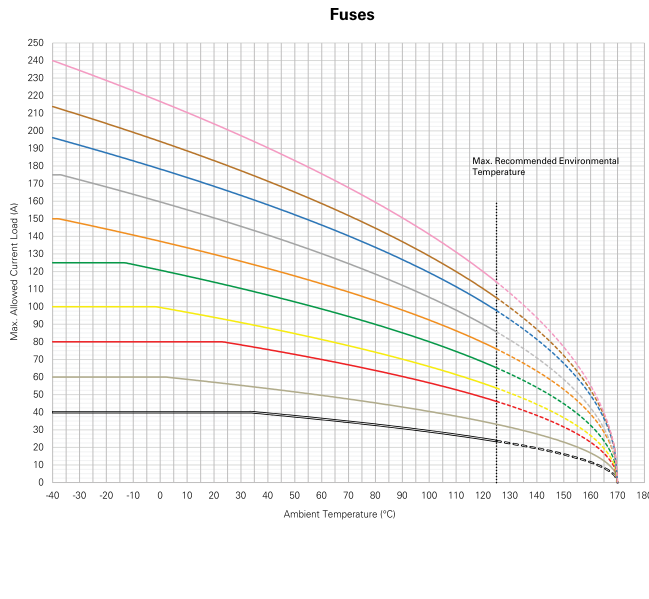
MEGA®+ Series

Bolt-down Fuses – Rated 32 V DC

Typical Derating Curves

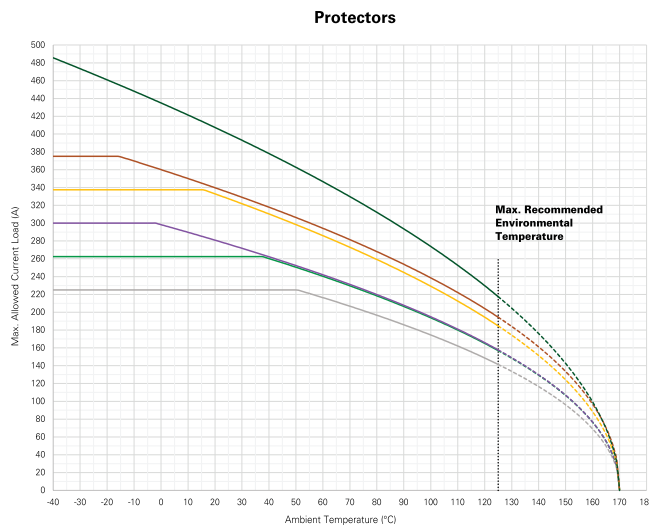
Temperature security margin is 20%.

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
40 A	40	40	40	35	32	27	24
60 A	60	60	57	49	44	38	33
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

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



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

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

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