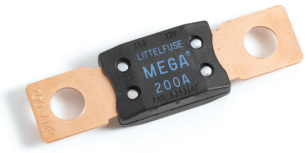
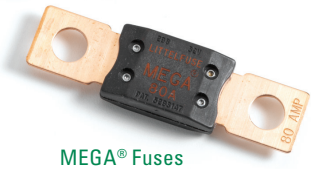
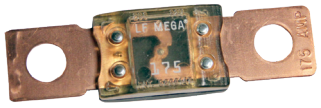
High Current Fuses

Littelfuse
Expertise Applied | Answers Delivered





MEGA® Fuses



MEGA® Clear Top Housing Fuse

MEGA® and MEGA® Clear Top Fuse Rated 32V

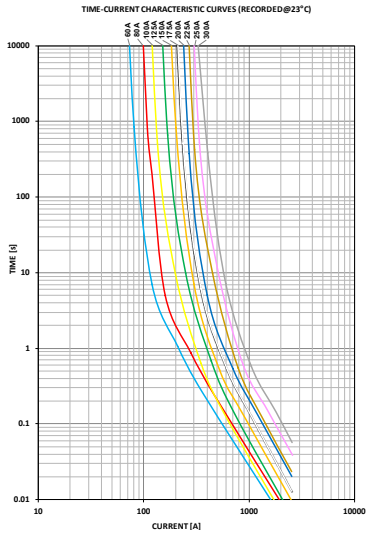
The MEGA® Fuse is designed for high current circuit protection up to 500A with "Diffusion Pill Technology." The MEGA® Fuse also provides time delay characteristics. Designed and patented by Littelfuse, the MEGA® Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.

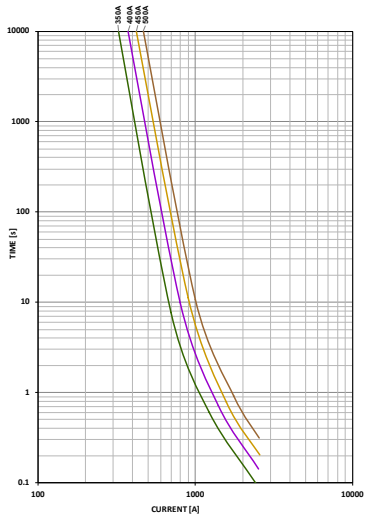
Specifications

Voltage Rating:	32 VDC
Interrupting Rating:	2000A @ 32 VDC
Recommended Environmental Temperature:	-40˚C to + 125˚C
Terminals Materials:	Copper (Silver plated copper available)
Housing Material:	PPA-GF33HS (U.L. 94 Flammability rating - HB)
Clear Top Housing Material:	PES (top) (U.L. 94 Flammability rating - V0) PPA-GF33HS (bottom) (U.L. 94 Flammability rating - HB)
Mounting Torque M6:	8-14 Nm
Mounting Torque M8:	12-18 Nm
Complies with:	ISO 8820-5

RoHS

Time-Current Characteristic Curves





Ordering Information

Part Number	Rating	Package Size	Plating	Bolt Size	Bolt Hole Qty
0298xxx.ZXEH	80 - 250	500	None	M8	2
0298xxx.ZXH	300 - 500	500	None	M8	2
0298xxx.UX1M8	80 - 500	500	None	M8	1
0298xxx.ZXB	40 - 250	500	Ag	M8	2
0298xxx.ZXA	80 - 500	500	None	M6	2
MEGA Clear Top Housing Material Fuse					
0298xxx.UXT	40 - 250	500	None	M8	2

Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)	
	40-250	300-500
75	– / –	14,400 / ∞
100	14,400 / ∞	– / –
135	120 / 1800	– / –
200	1 / 15	1 / 15
350	0.3 / 5	0.5 / 5
600	0.1 / 1	0.1 / 1

Ratings

Part Number	Current Rating (A)	Color Code [3]	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I²t (A²s)
0298040._ [1]	40	–	4	132	2.51	8,700
0298060._ [1]	60	–	6	119	1.50	21,000
0298080._	80		10	87	0.72	21,500
0298100._	100		16	87	0.56	31,100
0298125._	125		16	80	0.42	57,800
0298150._	150		25	92	0.35	100,000
0298175._	175		25	86	0.29	168,000
0298200._	200		35	83	0.26	204,000
0298225._	225		35	82	0.22	257,000
0298250._	250		50	82	0.20	389,000
0298300._ [2]	300		70	74 [4]	0.17	315,000
0298350._ [2]	350		70	68 [4]	0.14	500,000
0298400._ [2]	400		70	64 [4]	0.13	610,000
0298450._ [2]	450		70	60 [4]	0.11	1,050,000
0298500._ [2]	500		70	58 [4]	0.09	2,050,000

1: Not mentioned in ISO standards
2: Short Circuit Protector only
3: 0298xxx.ZXB has white font color on all ratings.
4: Voltage Drop measurements for short circuit protectors taken at 75% of rated current.

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

REV07272021

Littelfuse® products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse® product documentation. Warranties granted by Littelfuse® shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse® documentation. Littelfuse® shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse® as set forth in applicable Littelfuse® documentation. The sale and use of Littelfuse® products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse®.

High Current Fuses

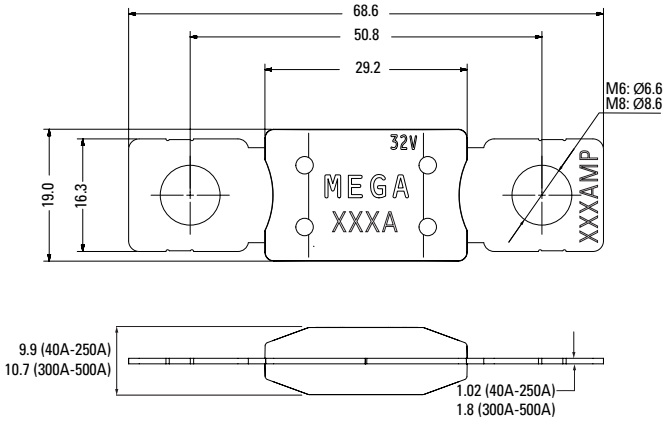
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MEGA® Fuse Rated 32V

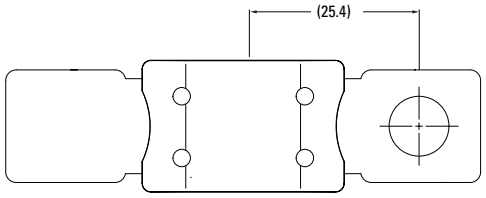
Dimensions

Dimensions in mm for reference only.
See outline drawing for dimensions and tolerances.

ZX & UXT Versions

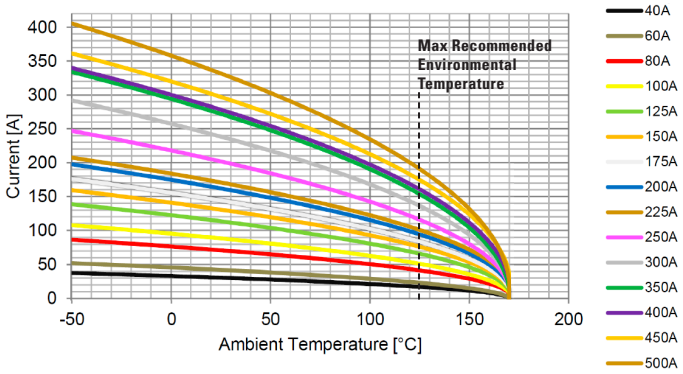


UX1M8 Version



Typical Derating

Temperature Security Margin is 20%
Please contact Littelfuse® for Details Regarding Derating Test Set-Up.



Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc..).
Please ask Littelfuse for more information.

Temperature Table

max. allowed current load [A] at ambient temperature								
	-20°C	0°C	20°C	65°C	85°C	95°C	105°C	125°C
40A	35	33	31	26	23	22	20	17
60A	48	46	43	36	32	30	28	23
80A	81	76	72	61	55	52	49	41
100A	101	95	90	76	69	65	61	51
125A	129	123	116	98	88	83	78	66
150A	149	141	133	112	102	96	90	76
175A	164	156	147	124	112	106	99	84
200A	184	175	165	139	126	119	112	94
225A	194	184	174	147	134	127	119	101
250A	230	218	205	173	157	147	138	116
300A	272	258	242	204	184	174	162	136
350A	311	294	277	232	209	197	184	154
400A	317	300	283	239	216	204	191	161
450A	337	320	302	256	232	219	206	175
500A	378	358	337	284	257	242	227	191

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