

MEGA® Low Temperature Fuses

MEGA® Low Temperature Fuse Rated 32V

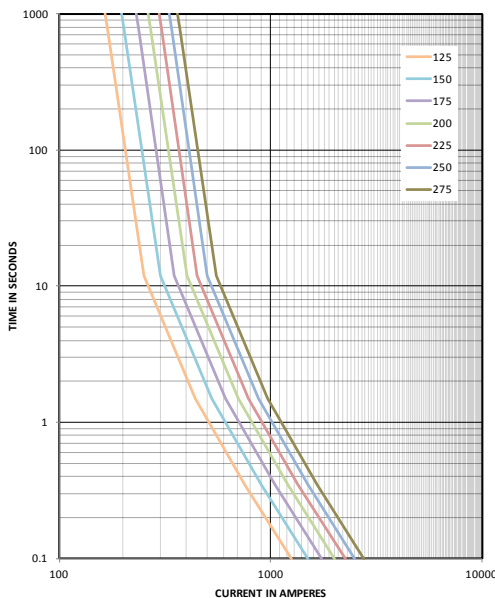
The MEGA® Fuse is designed for high current circuit protection up to 275A with “Diffusion Pill Technology.” The MEGA® Fuse also provides time delay characteristics. Designed and patented by Littelfuse, the MEGA® Fuse is ideal for battery and alternator protection application and other heavy gauge cables 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)
Mounting Torque M8:	12-18 Nm

RoHS

Time-Current Characteristic Curves



Ordering Information

Part Number	Rating	Package Size	Plating	Bolt Hole Qty
0298125.ZXBLT	125	500	Ag	2
0298xxx.ZXEH-LT	150-275	500	None	2
0298xxx.UX1M8LT	150-275	500	None	1

Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)	
	125	150-275
100	14,400 / ∞	14,400 / ∞
135	120 / 1800	120 / 1800
200	1 / 50	1 / 150
350	0.3 / 5	0.3 / 5
600	0.1 / 1	0.1 / 1

Ratings

Part Number	Current Rating (A)	Font Color	Test Cable Size (mm2)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I²t (A²s)
0298125.ZXBLT	125	□	16	67	0.33	57,000
0298150.ZXEH-LT	150	□	25	62	0.26	59,000
0298175.ZXEH-LT	175	□	25	65	0.23	123,000
0298200.ZXEH-LT	200	□	35	61	0.21	140,000
0298225.ZXEH-LT	225	□	35	57	0.18	317,000
0298250.ZXEH-LT	250	□	50	54	0.14	637,000
0298275.ZXEH-LT	275	□	50	53	0.12	800,000

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

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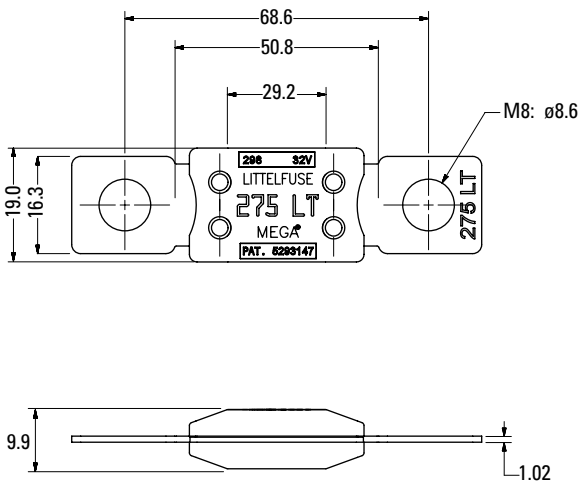
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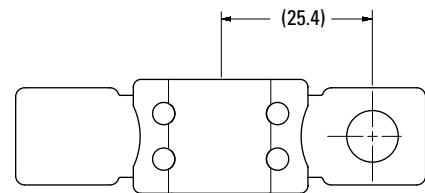
Dimensions

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

ZXBLT & ZXEH-LT Versions

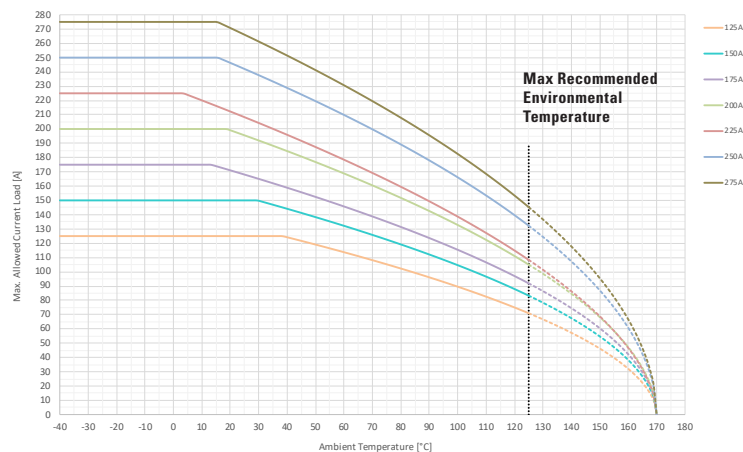


UX1M8LT Version



Typical Derating of Fuse Melting Element

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



Temperature Table

	max. allowed current load [A] at ambient temperature (typical derating)						
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
125A	125	125	125	111	99	83	71
150A	150	150	150	129	116	97	83
175A	175	175	171	142	128	107	92
200A	200	200	199	165	147	122	105
225A	225	225	212	174	155	127	108
250A	250	250	246	205	184	153	132
275A	275	275	271	225	202	169	145

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

Mouser Electronics

Authorized Distributor

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Littelfuse:

0298125.ZXBLT