



Bolt Down Versions



Clinch Versions
(1 Hole and No Holes variants)

MEGA+® 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:	32VDC
Interrupting Rating:	2000A @ 32VDC
Recommended Environmental Temperature:	-40°C to +125°C
Terminals Material:	Tin Plated Copper Alloy
Housing Material:	PET-GF30FR (U.L. 94 Flammability rating - V-0)
Net Weight Per Fuse:	11.6±15% gr
M6 Mounting Torque:	8-14Nm - Recommended Range Value
M8 Mounting Torque:	12-18Nm - Recommended Range Value (25Nm Max Allowed) (ISO prescription 12±1Nm)

Refers to:



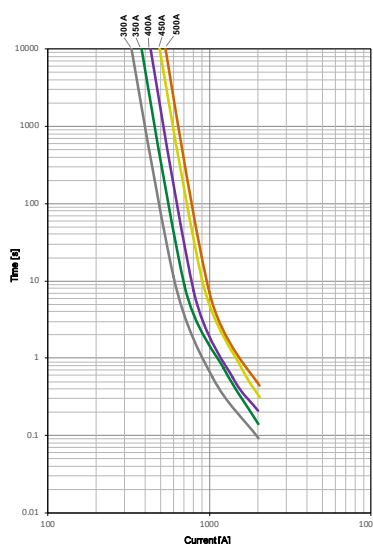
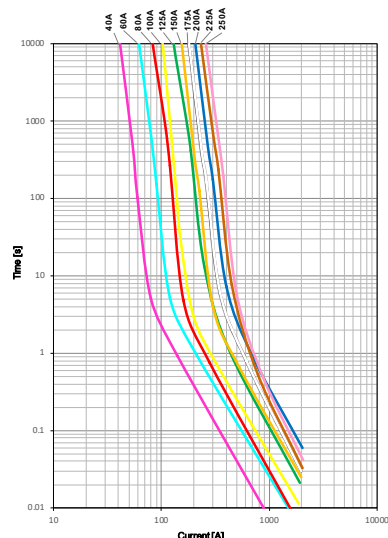
Ordering Information

Time-Current Characteristics

Part Number	Rating	Package Size	Bolt Size	Bolt Hole Qty	% of Rating	Opening Time Min / Max (s)		
						40A-250A	300A	350A-500A
0298XXX.UXP-2M8	40 - 500	500	M8	2	75	- / -	14,400 / ∞	14,400 / ∞
0298XXX.UXP-1M8	40 - 500	500	M8	1	100	14,400 / ∞	- / -	- / -
0298XXX.UXP-2M6	40 - 500	500	M6	2	135	120 / 1800	- / -	- / -
0298XXX.UXP-1M6	40 - 500	500	M6	1	150	20 / 450	- / -	- / -
0298XXX.UXP-NH	40 - 500	500	N/A	0	200	1 / 15	1 / 15	1 / 15
					350	0.3 / 5	0.5 / 5	0.5 / 5
					500	- / -	0.1 / 2	0.1 / 2
					600	0.1 / 1	0.1 / 1	- / -

Time-Current Characteristic Curves

TIME-CURRENT CHARACTERISTIC CURVES (RECORDED @ 23°C)



Ratings

Part Number	Current Rating (A)	Color Code 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	86.9	1.52	6,600
0298060_1	60		6	88.5	0.95	22,200
0298080_	80		10	77.1	0.66	22,900
0298100_	100		16	85.9	0.55	27,600
0298125_	125		16	79.0	0.41	78,000
0298150_	150		25	90.9	0.34	97,300
0298175_	175		25	77.3	0.28	205,500
0298200_	200		35	92.8	0.26	245,800
0298225_	225		35	83.5	0.21	135,300
0298250_	250		50	85.8	0.19	176,200
0298300_2	300		70	45.3 ³	0.16	378,900
0298350_2	350		70	48.2 ³	0.13	573,000
0298400_2	400		70	52.0 ³	0.12	844,400
0298450_2	450		70	58.3 ³	0.11	1,323,600
0298500_2	500		70	57.5 ³	0.09	1,850,200

Note 1: Not mentioned in ISO standards

Note 2: Short Circuit Protector only

Note 3: Voltage Drop measurements for short circuit protectors taken at 75% of rated current.

Note 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)

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®.

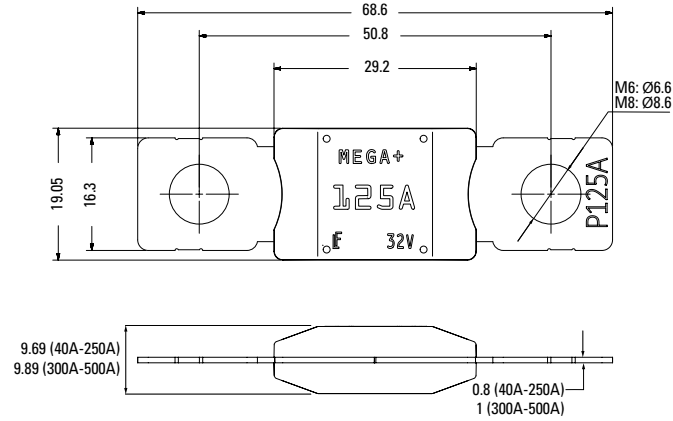
MEGA+® Fuses Rated 32V

Dimensions

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

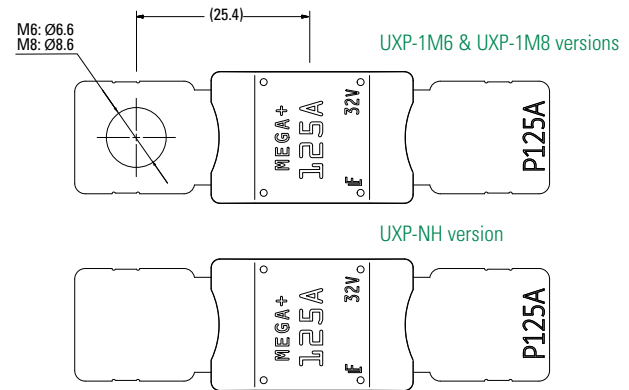
Marking Type "A"

Color Code Rating Mark Applicable for the UXP-2M8 and UXP-2M6 versions only



Marking Type "B"

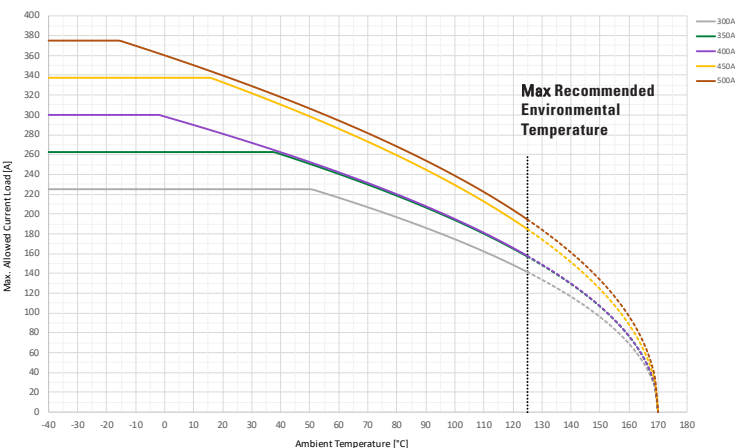
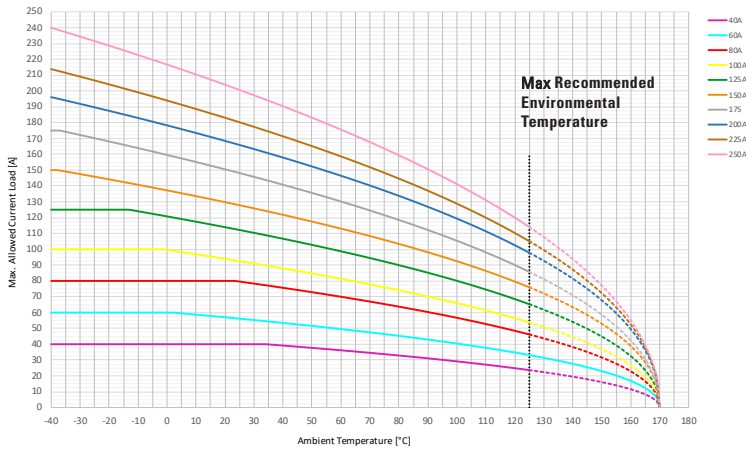
High Contrast Mark (White Color Only - No Color Code) applicable for UXP-1M6, UXP-1M8 and UXP-NH clinch versions



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
40A	40	40	40	35	32	27	24
60A	60	60	57	49	44	38	33
80A	80	80	80	68	62	53	46
100A	100	100	94	80	72	61	54
125A	125	121	114	97	88	75	65
150A	150	137	130	111	101	86	76
175A	175	160	151	127	115	98	86
200A	196	178	168	143	130	111	98
225A	214	194	183	155	141	120	105
250A	240	217	204	172	155	131	114
300A	225	225	225	212	191	162	141
350A	263	263	263	235	213	180	157
400A	300	298	281	237	214	181	158
450A	338	338	333	280	252	213	185
500A	375	360	340	288	261	222	194

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

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®.