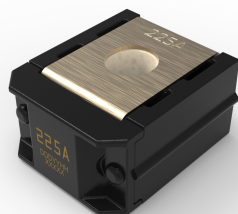


ZCASE® Single MEGA/Starter Fuses

Rated 32V

RoHS



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
Housing Material:	PPA-GF33HS (UL 94 Flammability rating of HB)
Mounting Torque M6	9.8 Nm ± 1.4 Nm
Mounting Torque M8	14 Nm ± 2 Nm
Insulating Tube:	Ceramic

Description

The Single ZCase is a Minimal Footprint Bolt Down Fuse with a wide rating range up to 600A in the same packaging size. The Time Current characteristic is similar to the well known MEGA Design and can be used as full wire protection until 250A. Higher ratings are mostly used for typically Starter Fuse applications as a protector fuse. The fuse design is optimized for a one-bolt connection M6 (40A - 250A) or M8 (300A - 600A) and can be used directly on a battery post or busbar connection. Littelfuse is offering a complete solution for the necessary stud and different busbar connections including some battery clamps.

Features & Benefits

- One-bolt connection
- Compact design
- Can mount on a battery post, starter, or busbar
- SHUNT version available
- High-contrast ampere rating stamp aids identification
- Space saving

Applications

- Cars
- Offroad vehicles
- Trucks
- Buses
- SUVs
- Watercraft as approved by Littelfuse®

Ordering Information

Part Number	Current Rating (A)	Package Size
3298XXX.ZXSTA	300-600	480
3298XXX.Z	40-250 SHUNT	480
3298XXX.H	40-600	100

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Ratings

Part number	Current Rating (A)	Test Cable Size (mm ²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	I ² t (A ² s)
3298040.Z / 3298040.H	40	4	86	1.53	5,000
3298060.Z / 3298060.H	60	6	83	0.98	18,000
3298080.Z / 3298080.H	80	10	80	0.72	15,500
3298100.Z / 3298100.H	100	16	88	0.57	31,000
3298125.Z / 3298125.H	125	16	71	0.39	45,000
3298150.Z / 3298150.H	150	25	83	0.32	75,000
3298175.Z / 3298175.H	175	25	82	0.26	140,000
3298200.Z / 3298200.H	200	35	92	0.23	235,000
3298225.Z / 3298225.H	225	35	86	0.18	95,000
3298250.Z / 3298250.H	250	50	88	0.17	160,000
3298300.ZXSTA / 3298300.H	300 ¹	35	29 ²	0.13	310,000
3298350.ZXSTA / 3298350.H	350 ¹	35	30 ²	0.10	570,000
3298400.ZXSTA / 3298400.H	400 ¹	50	30 ²	0.08	870,000
3298500.ZXSTA / 3298500.H	500 ¹	50	34 ²	0.07	1,550,000
3298600.ZXSTA / 3298600.H	600 ¹	50	36 ²	0.05	3,000,000
3298900.Z /	SHUNT	50	-	-	-

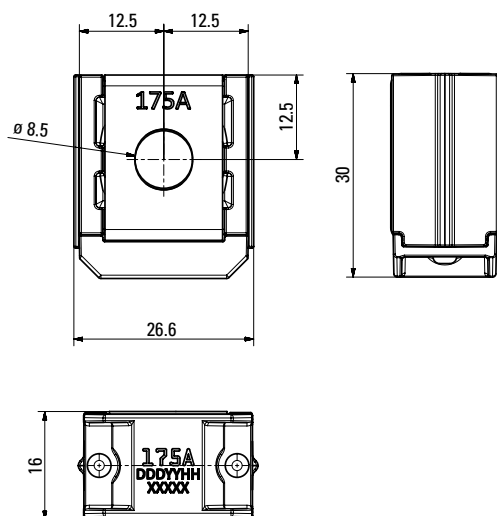
Note 1 STARTER fuses

Note 2 Voltage Drop taken at 50% of Rated Current

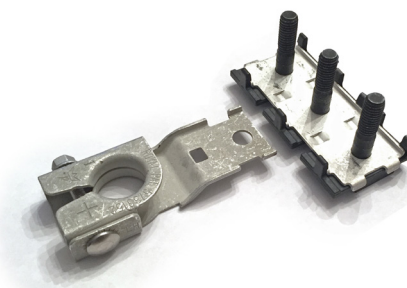
The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before arcing occurs.

Dimensions

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



Assembly Components (sold separately)



Part No.	Description
882-853	3-Way Bus Bar with M8 Insulating Bolts Assembly*
882-854	2-Way Bus Bar with M8 Insulating Bolts Assembly*
876-199	Battery Terminal Mount
32980001ZXM8	M8 Insulating Bolt

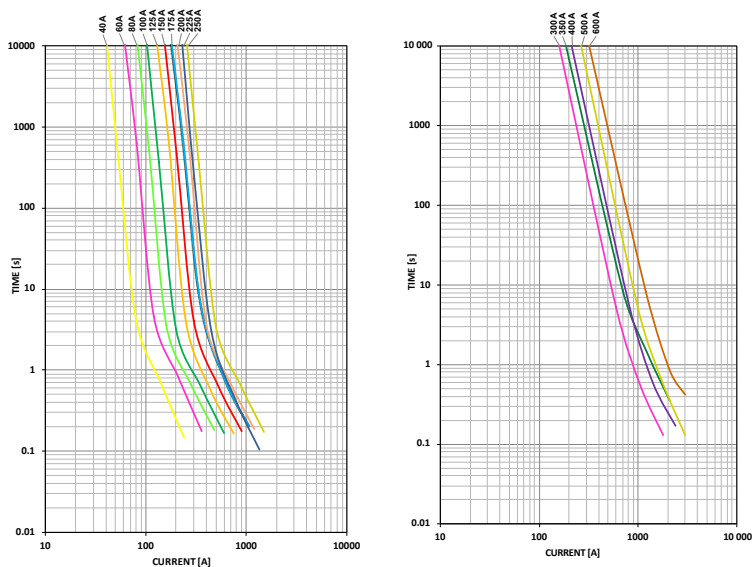
*M8 Nuts not included

Please contact your Littelfuse representative for application support and information on mating hardware.

ZCASE® Single MEGA/Starter Fuses

Rated 32V

Time-Current Characteristic Curves

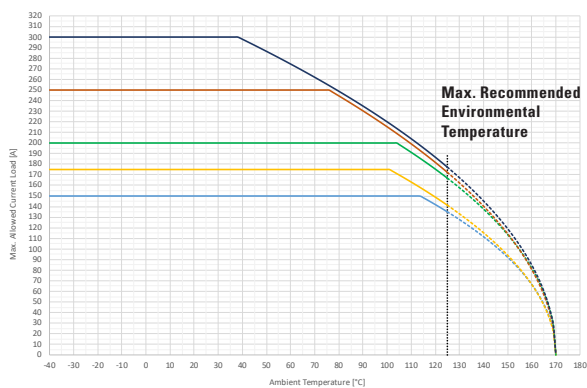
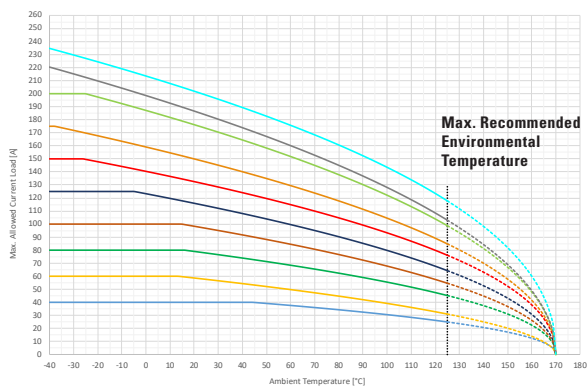


Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)		
	40-250 A	300-500 A	600 A
50	- / -	14 400 / ∞	14 400 / ∞
100	14 400 / ∞	- / -	- / -
135	120 / 1800	- / -	- / -
200	1 / 15	1 / 40	1 / 40
350	0.3 / 5	0.3 / 5	0.3 / 5
500	- / -	- / -	0.1 / 1
600	0.1 / 1	0.1 / 1	- / -

Typical Derating of Fuse Melting Element

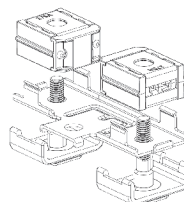
Temperature security margin is 20 %.
Please contact Littelfuse for details regarding derating test setup.



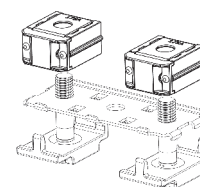
Temperature Table

	Max. allowed current load (A) at ambient temperature (typical derating)						
	-40 °C	0 °C	20 °C	65 °C	85 °C	110 °C	125 °C
40 A	40	40	40	37	33	28	25
60 A	60	60	59	49	43	36	31
80 A	80	80	79	67	61	52	45
100 A	100	100	98	83	75	63	55
125 A	125	123	116	97	88	74	64
150 A	150	140	133	112	102	87	76
175 A	175	159	150	127	115	97	85
200 A	200	187	176	148	134	113	99
225 A	220	199	187	157	141	119	103
250 A	235	214	202	172	157	134	118
300 A	150	150	150	150	150	150	135
350 A	175	175	175	175	175	163	141
400 A	200	200	200	200	200	191	167
500 A	250	250	250	250	238	199	172
600 A	300	300	300	268	242	204	177

All tests were performed on the left or right side of the metal bar as shown in the pictures. A 50mm² Cu wire was mounted at the mid hole (M8) as current feed.



Zcase Mega Fixture



Zcase Starter Fixture

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