High Current Fuses

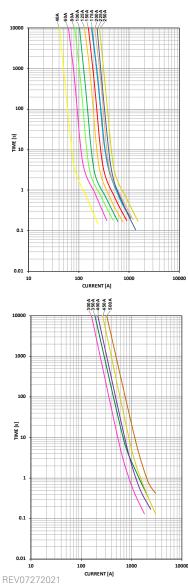




ZCASE Single Mega/Starter Fuse

Time-Current Characteristic Curves

See note on next page regarding Test Set-Up



ZCASE Single MEGA/Starter Fuse

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 used as full wire protection until 250A. Higher ratings mostly used for typically Starter Fuse application as a protector fuse. The fuse design is optimized for a one bolt connection M6 (40A - 250A) or M8 (300A - 600A) and can used directly on a battery post or busbar connection. Littlefuse is offering a complete solution for the necessary stud and different busbar connections including some battery clamps.

Package

Size

480

480

100

Specifications

Ordering Information

Part Number

3298XXX.ZXSTA

3298XXX.Z

3298XXX.H

Voltage Rating: Interrupting Rating: Recommended Environmental Temperature: Terminal Material: Housing Material: Insulating Tube: Mounting Torque M6: Mounting Torque M8:

Rating

300 - 600

40 - 250 SHUNT

40 - 600

32V DC 2000A @ 32V VDC -40 to 125°C Tin plated Copper PPA-GF33HS (U.L. 94 Flammability rating - HB) Out of ceramic 9.8Nm±1.4Nm 14Nm±2Nm

Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)				
	40A - 250A	300A - 500A	600A		
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	-/-		

Ratings

Part number	Current Rating (A)	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I²t (A²s)	
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 the arcing occurs.

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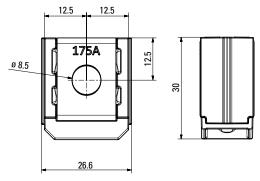
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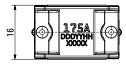


ZCASE Single Mega/Starter Fuse

Dimensions

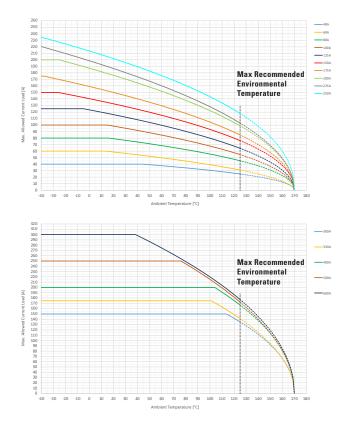
Dimensions in mm for reference only. See outline drawing for dimensions and tolerances.





Typical Derating of Fuse Melting Element

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.

REV07272021

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

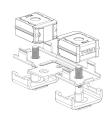
*M8 Nuts not inlcuded

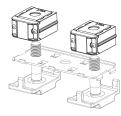
Please contact your Littelfuse representative for application support and information on mating hardware.

Temperature Table

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

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