



ZCASE Single Mega/Starter Fuse

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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 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 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.

Specifications

Operating temperature:	-40 to 125°C
Housing Material:	PPA-GF33HS
Insulating Tube:	Out of ceramic
Terminal:	Tin plated Copper
Voltage Rating:	32V DC
Interrupting Rating:	2000A @ 32V VDC
Mounting Torque M6:	9.8Nm±1.4Nm
Mounting Torque M8:	14Nm±2Nm

Ordering Information

Part Number	Package Size
3298XXX.ZXSTA	480
3298XXX.Z	480
3298XXX.H	100

Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)	
	40A - 250A	300A - 600A
50	- / -	14,400 / -
100	14,400 / -	- / -
135	120 / 1800	- / -
200	1 / 15	1 / 40
350	0.300 / 5	0.300 / 5
500	- / -	0.100 / 1 (only for 500A)
600	0.100 / 1	0.100 / 1 (except 600A)

Ratings

Part number	Current Rating (A)	Wire size (mm ²)	Max. Voltage Drop (mV)	Average Cold Resistance (mΩ)	I ² t (A ² s)
3298040_	40	4	110	1.53	5000
3298060_	60	6	110	0.98	18000
3298080_	80	10	110	0.715	15500
3298100_	100	16	110	0.57	31000
3298125_	125	16	110	0.39	45000
3298150_	150	25	110	0.32	75000
3298175_	175	25	110	0.26	140000
3298200_	200	35	110	0.231	235000
3298225_	225	35	110	0.175	95000
3298250_	250	50	110	0.167	160000
3298300.ZXSTA	300	35	70	0.128	310000
3298350.ZXSTA	350	35	70	0.103	570000
3298400.ZXSTA	400	50	70	0.084	870000
3298500.ZXSTA	500	50	70	0.065	1550000
3298600.ZXSTA	600	50	70	0.049	3000000
3298900_	SHUNT	50	-	-	-

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Dimensions

Dimensions in mm



Examples of Single ZCASE Applications



No.	Description
1	Single ZCASE Mega
2	Busbar PN: 3298002ZXBB
3	Insulating Bolt M8 PN: 3298001ZXM8



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

Time-Current Characteristic Curves

Reference Time-Current Characteristic Curves (Recorded@23°)



Reference Time-Current Characteristic Curves (Recorded@23°)



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

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