

## Electric Vehicle Power Fuses

## E8SA Series

### Fast Acting Fuse



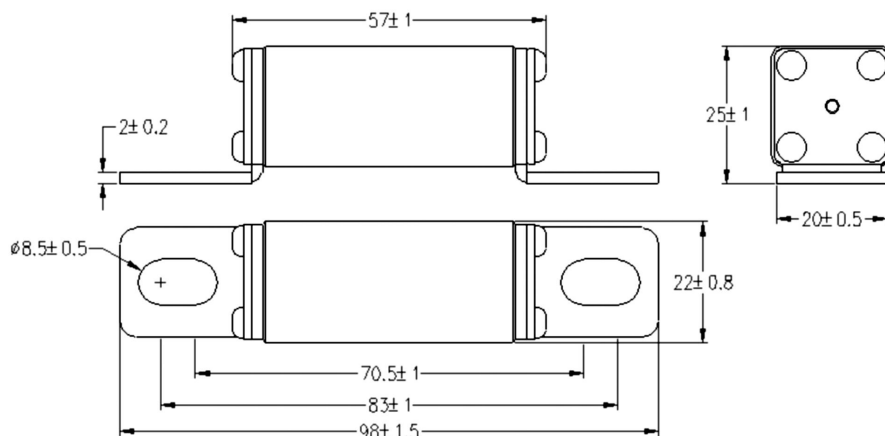
#### Features

- Fast Acting fuse for DC Application
- 800Vdc ideal for EV or HEV application
- Stud-mount, optional for other installation
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Excellent DC performance
- Design to EV fuse standard UL248-20
- Comply RoHS directive

#### Specifications

Part Number	Rated Current (A)	Rated Voltage (Vdc)	Breaking Capacity (A)	$I^2t$ (A <sup>2</sup> S)		Power Loss At 0.5In (W)
				Pre-arc	Total @1000Vdc	
E8SA-100A-TA	100	800	50000	1750	10500	3.3
E8SA-125A-TA	125	800	50000	2450	14930	4.3
E8SA-150A-TA	150	800	50000	4300	26260	4.8
E8SA-160A-TA	160	800	50000	5200	31720	5.3
E8SA-200A-TA	200	800	50000	10910	54760	6.5

#### Dimension (mm)



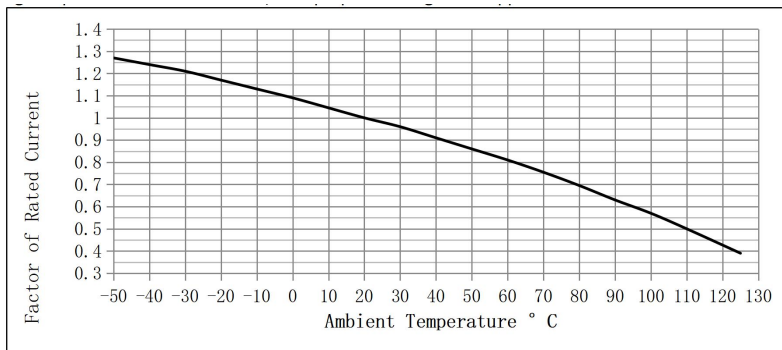
Note: Recommend tightening torque is 12+/-1.0Nm (M8)

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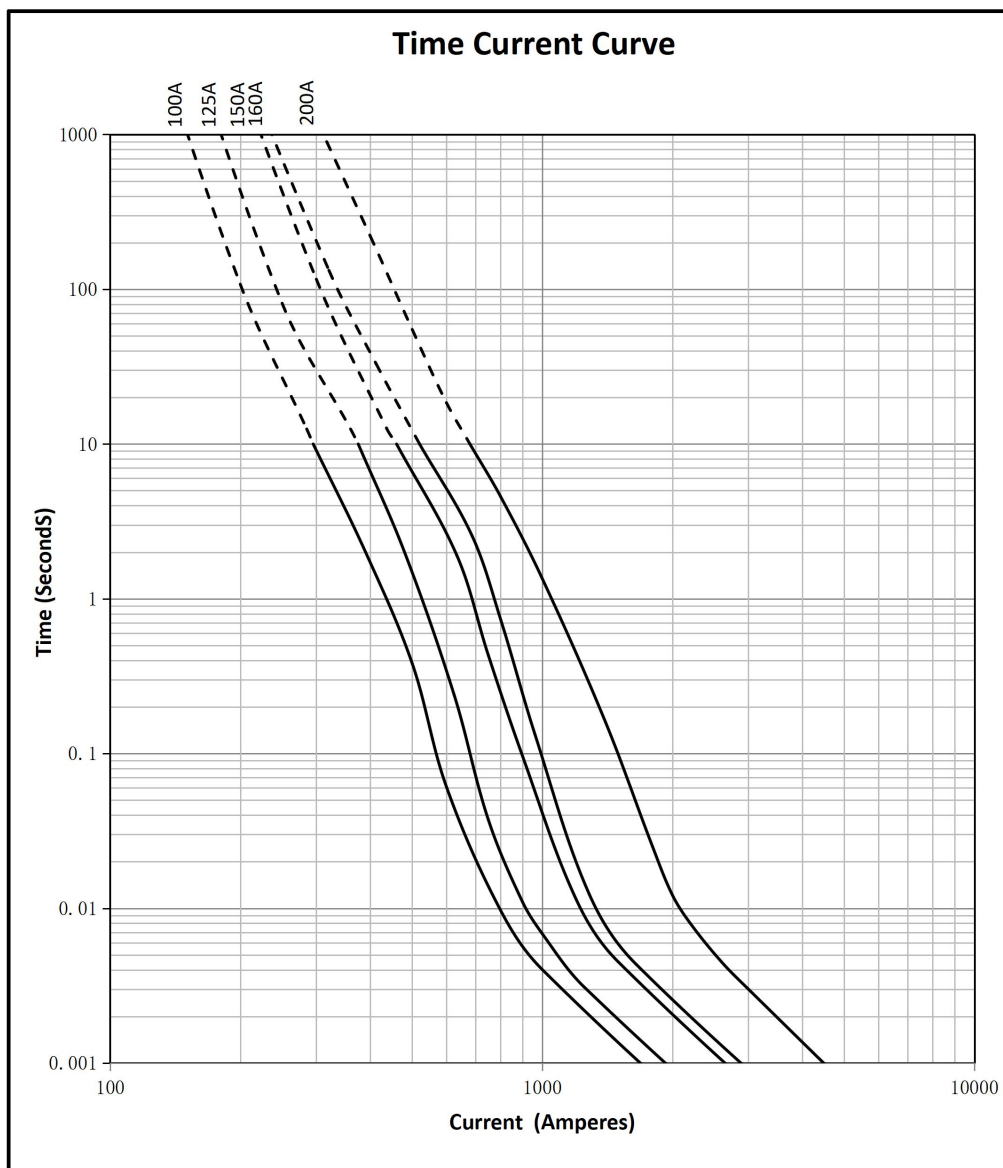
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#### Temperature Re-Rating Curve



Operating Temperature: -40°C to +125°C, with proper rerating factor applied

#### Time-Current Curve



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#### Transportation and Storage

During transportation and storage, should avoid water seepage and mechanical damage.

#### Conditions for operation in service

Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification;

Normal temperature:  $-5^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ ;

The altitude of the site of installation of the fuses does not exceed 2 000 m above sea level;

The air is clean and its relative humidity does not exceed 50 % at the maximum temperature of  $40^{\circ}\text{C}$ ;

Higher relative humidities are permitted at lower temperatures, e.g. 90 % at  $20^{\circ}\text{C}$ ;

Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

For operation condition other than above, please contact manufacturer.

#### Vibration

Meet UL248-20 Section 8.6.2.3 Vibration Test C requirement, can be use on Electrical Vehicle application.