

# Electric vehicle auxiliary fuses

## 800VDC, 5A ~ 50A

### Description

- DC fuse for EV/HEV
- Stud-mount, optional for other installation
- 800Vdc ideal for EV or HEV application
- Excellent DC performance
- Design refer to JASO D622:2006

Electrical Characteristics		
% of Ampere Rating (A)	Operating	
	Min	Max
100%	14400	-
200%	1	300
300%	0.2	30
500%	0.1	10

### Specifications

Type	Ordering P/N	Electrical Characteristics		
		Rated Current (Amp)	Interrupting rating	I <sup>2</sup> t A <sup>2</sup> S
Single	ST140801-5	5	800Vdc/10000A	37.5
	ST140801-8	8		96
	ST140801-10	10		150
	ST140801-15	15		225
	ST140801-20	20		600
	ST140801-25	25		850
	ST140801-32	32		1350
	ST140801-40	40		1600
	ST140801-50	50		3500

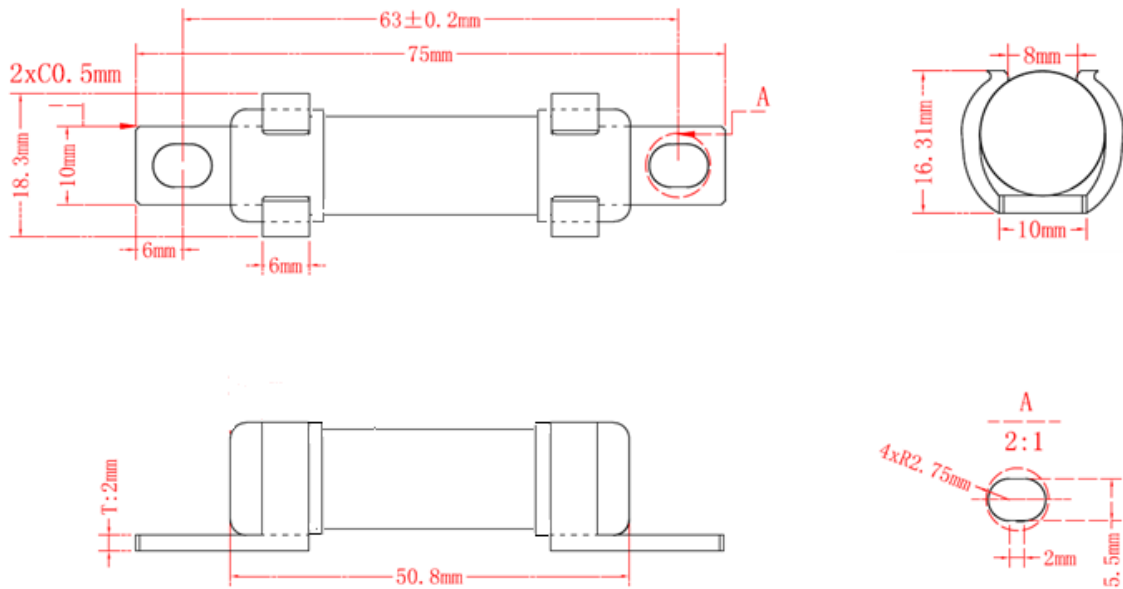
\*Temperature Rise: <=45K with 60% of rated current

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### Dimension (mm)

Type: Single

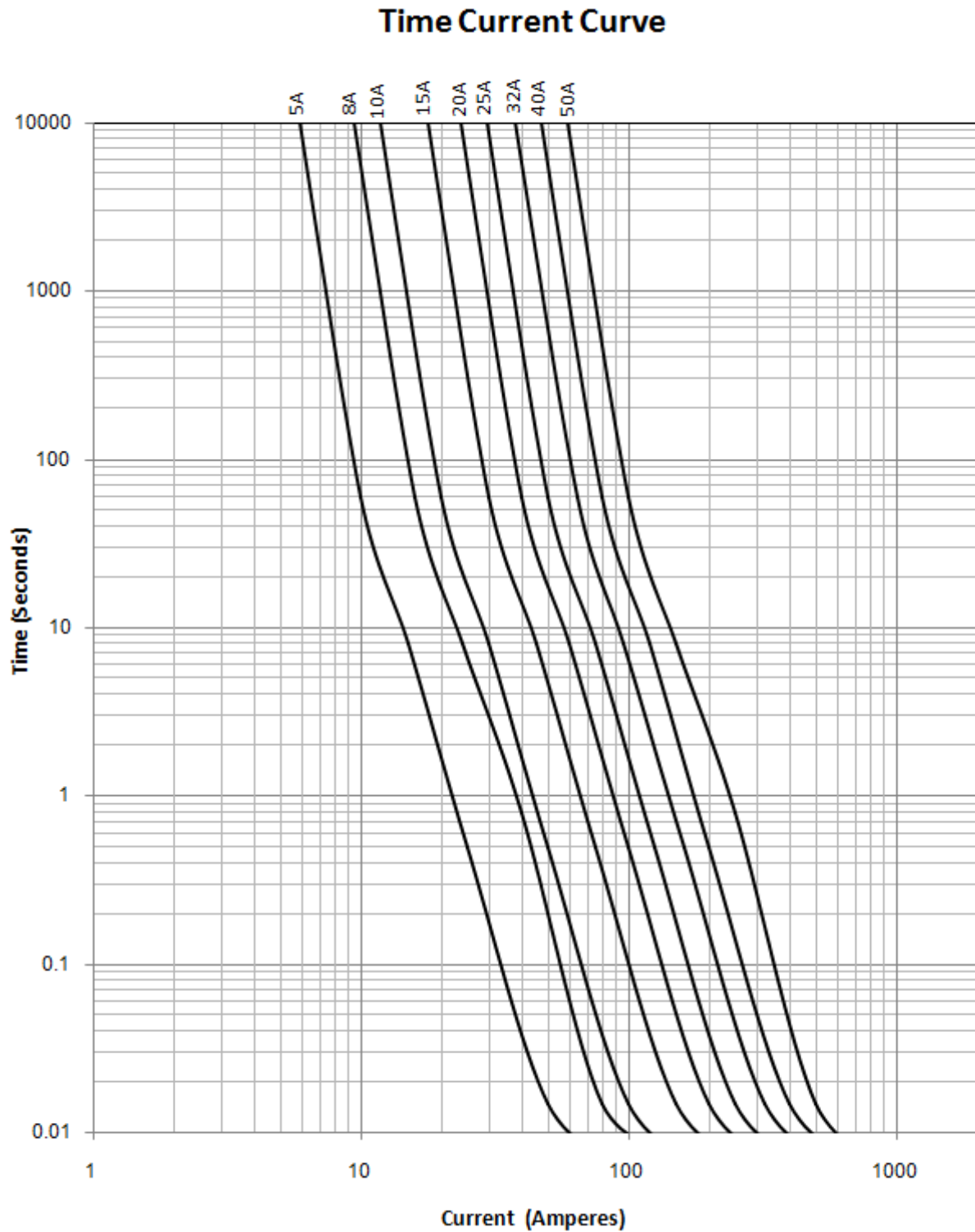


Note: recommend tighten torque: M5 – 4.5+/-1.0 Nm

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### 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 JASO D622:2006 Section 6.3.3 Vibration durability test requirement, can be use on Electrical Vehicle application

### Temperature Rerating Curve

Operating Temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ , with proper rerating factor applied

