Electric vehicle power fuses

500VDC, 100A ~ 400A

Sensata Technologies

RoHS COMPLIANT

Description

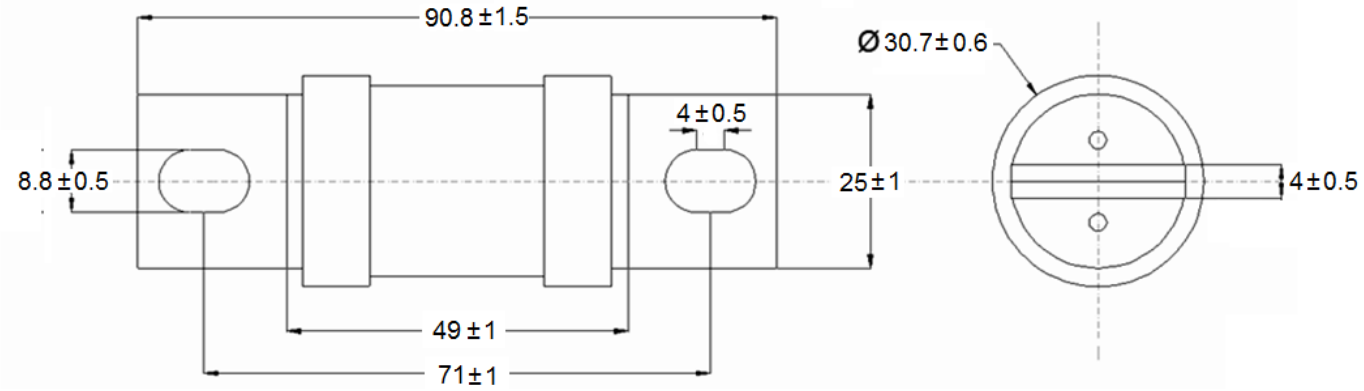
- Fast Acting Fuse for EV/HEV
- Stud-mount, optional for other installation
- 500Vdc ideal for EV or HEV application
- Excellent DC performance
- Special designed fuse base for vehicle situation

Specifications

Type	Ordering P/N	Electrical Characteristics					
Single		Rated Current	Rated Voltage	Interrupting Rating	Pre-arcing I^2t (A^2sec)	Clearing I^2t at 500Vdc/20kA (A^2sec)	Power Loss @ 0.5In (W)
		A	VDC				
	ST3050F-100	100	500V	500VDC 20KA	2550	5000	2.9
	ST3050F-150	150			4800	11600	4.2
	ST3050F-175	175			7100	19550	5.3
	ST3050F-200	200			10300	29800	6.1
	ST3050F-250	250			12300	34000	7.2
	ST3050F-300	300			16800	47900	8.9
	ST3050F-350	350			22200	66500	10.8
	ST3050F-400	400			28000	75800	12.6

*Temperature Rise : <=50K with 50% of rated current

Dimension (mm)



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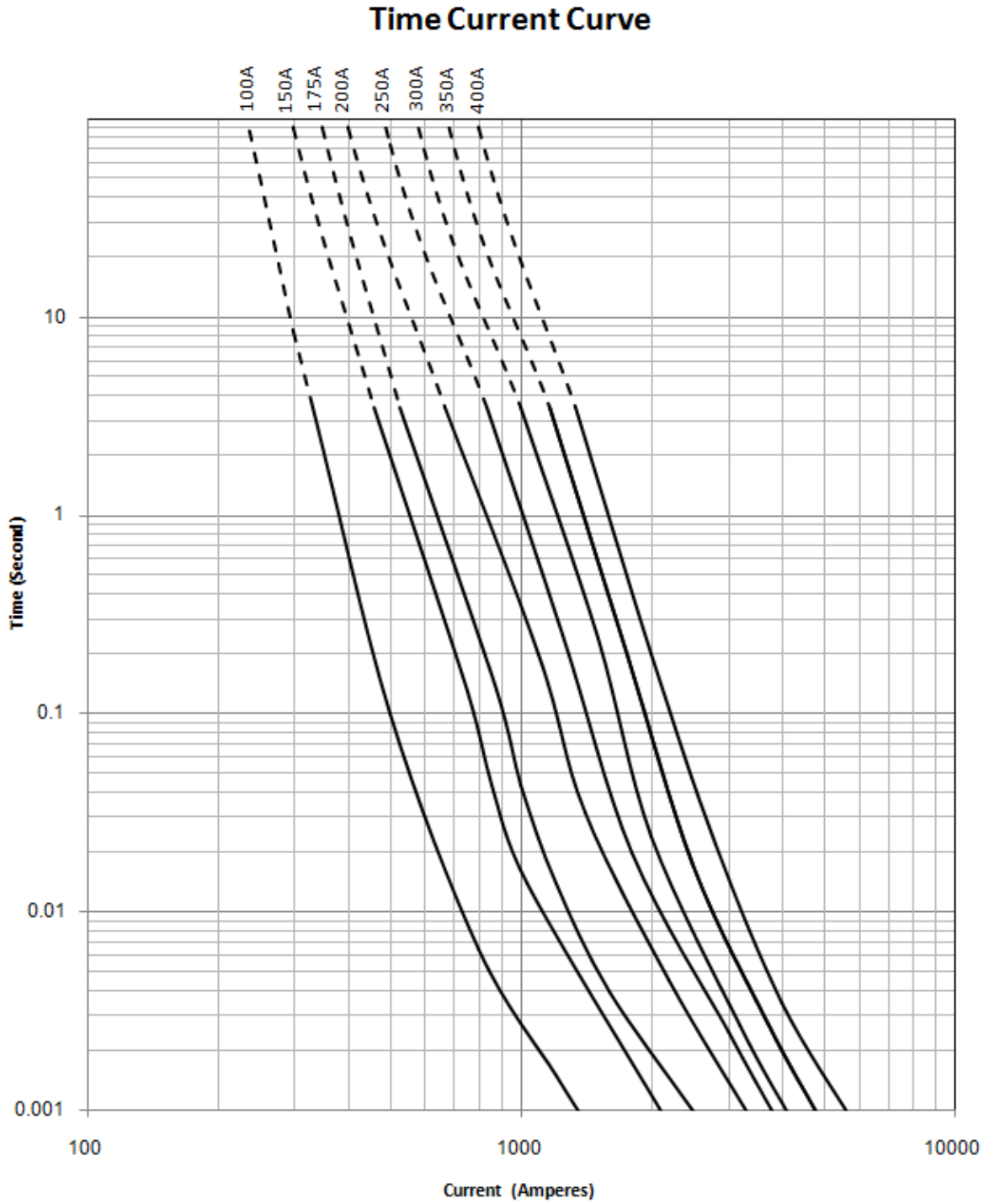
Packaging

One in one carton

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℃ to 40℃;
- The altitude of the site of installation of the fuses does not exceed 2000m above sea level;
- The air is clean and its relative humidity does not exceed 50% at the max. temperature of 40℃;
- Higher relative humidity are permitted at lower temperatures, e.g. 90 % at 20℃;
- 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 Re-Rating Curve

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