7H38L Fast-acting fuse

1. Purpose and use

This series fuse is applicable to the rated DC voltage of 800V (750V) below, in the rated current of 300A-400A line, the breaking capacity is 20KA, widely used in the charger. Charging pile, vehicle-mounted battery, vehicle-mounted circuit system and integrated protection of inverter. At the same time, it has the characteristics of strong current limiting capacity, large breaking capacity, short circuit breaking speed and so on. It can withstand temperature shock, mechanical vibration shock, current shock, chemical load and so on. This series of products comply with ISO 8820, JASO D622 and GB/T31465 standards. Environmental reliability applicable standards :GB/T31465.6, ISO 8820-8, JASO D622, UL248-20

2. Normal working conditions

Normal operating conditions of ambient air temperature: - 5 ℃ ~ 40 ℃; allowable operating conditions:

- 40 ℃ ~ + 125 ℃;

3. Use category

Full range fast fuse(gR)

4. Structural characteristics

The melting tube of the product is made of high-temperature resistant ceramic material, with high flame-retardant performance and strong hardness.

The melt is sealed in the melting tube with a variable cross-section melt made of 99.99% pure silver. The melting tube is filled with chemically treated high-purity quartz sand and specially treated chemical materials as arc extinguishing medium. The contact surface is silver plated to ensure reliable electrical performance, greatly reducing temperature rise and power

consumption; Both ends of the melt are firmly connected with the contact by spot welding, which greatly enhances the safety and reliability of breaking short circuit fault current

5.Agreed current and agreed time

Test current A	Fusing time s	
	In:≥60A	
	min	max
1.1In	14400	-
1.35In	150	3600
1.5In	20	1500
2In	1	300
3In	0.2	30
5In	0.05	1

Note: the agreed current and agreed time required by the customer can be negotiated with our company.

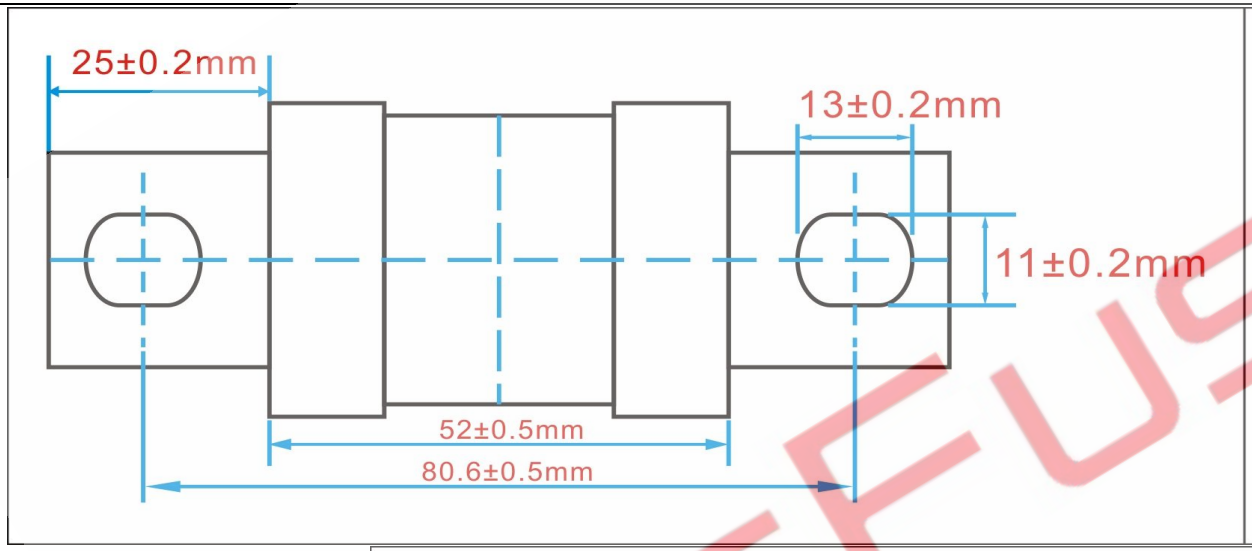
The characteristics of fuse will vary according to the use environment and surrounding design requirements. The performance characteristics are obtained according to the rated constant temperature of 25 ℃

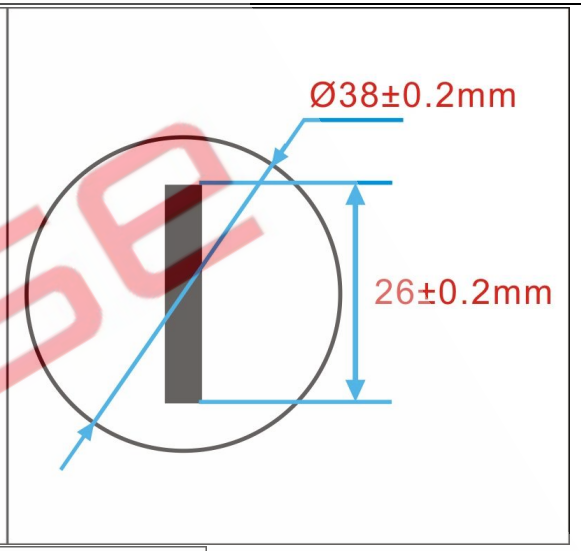
6. Main parameters

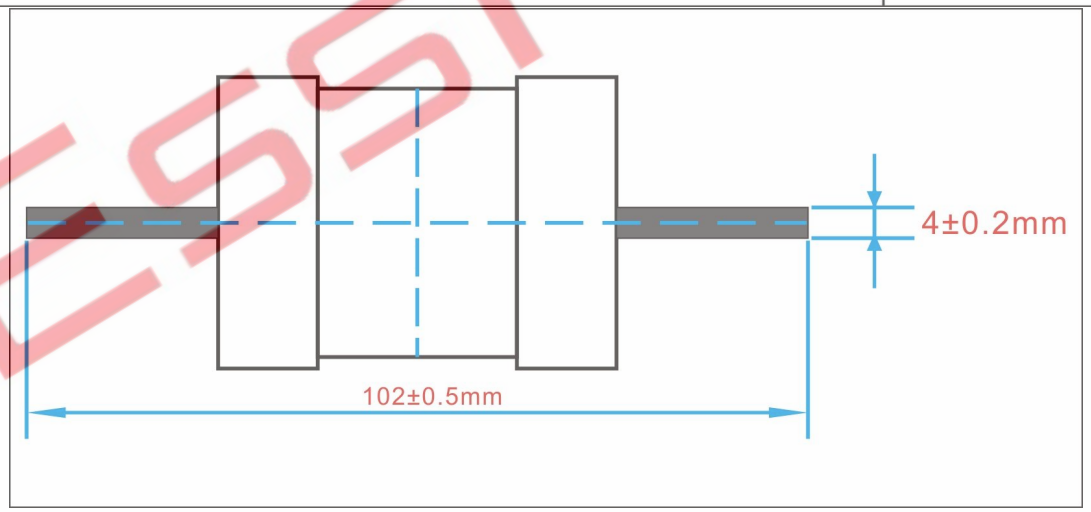
NO:	Product model	Rated current （A）	Rated voltage DC (V)	Maximum voltage drop (mV)	Breaking Capacity （KA）
1	7H38L300	300	800V/750V	45	20
2	7H38L350	350	800V/750V	42	20
3	7H38L400	400	800V/750V	42	20

7. Product scale:

EssFuse


25±0.2mm
13±0.2mm
11±0.2mm
52±0.5mm
80.6±0.5mm


Ø38±0.2mm
26±0.2mm


4±0.2mm
102±0.5mm

EssFuse

8. Characteristic curve:



EssFuse