1H20L Series DC(EV) fuse

1. Purpose and use

This series of fuses are suitable for lines with rated DC voltage below 250V (125V), rated current of 70A-300A and breaking capacity of 20kA. They are widely used in semiconductor protection, mobile forklift, electric elevator, charger, power supply, on-board battery, on-board circuit system and inverter integrated protection. At the same time, it has the characteristics of strong current limiting capacity, large breaking capacity and fast short-circuit breaking speed. Can withstand temperature shock, mechanical shock, current shock, chemical load, etc.Performance refers to JASOD622, and environmental reliability conforms to ISO8820, JASOD622 and GB / T31465

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

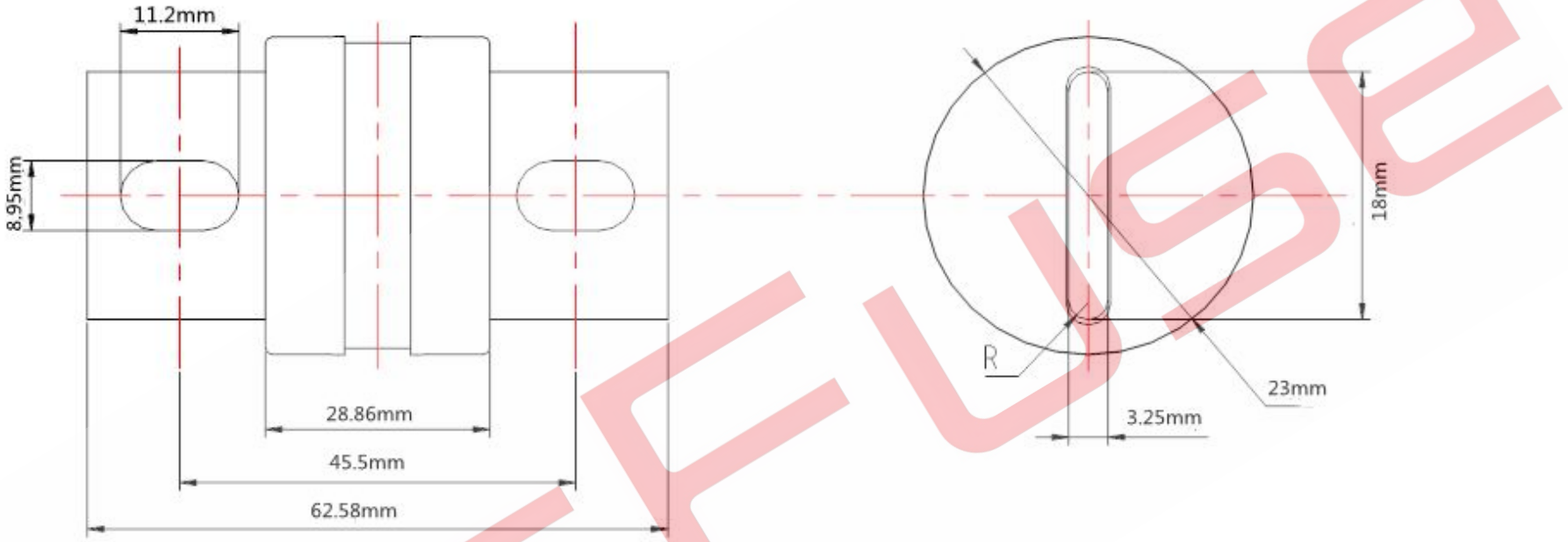
Note: the agreed current and agreed time required by the customer can be negotiated with our company.

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

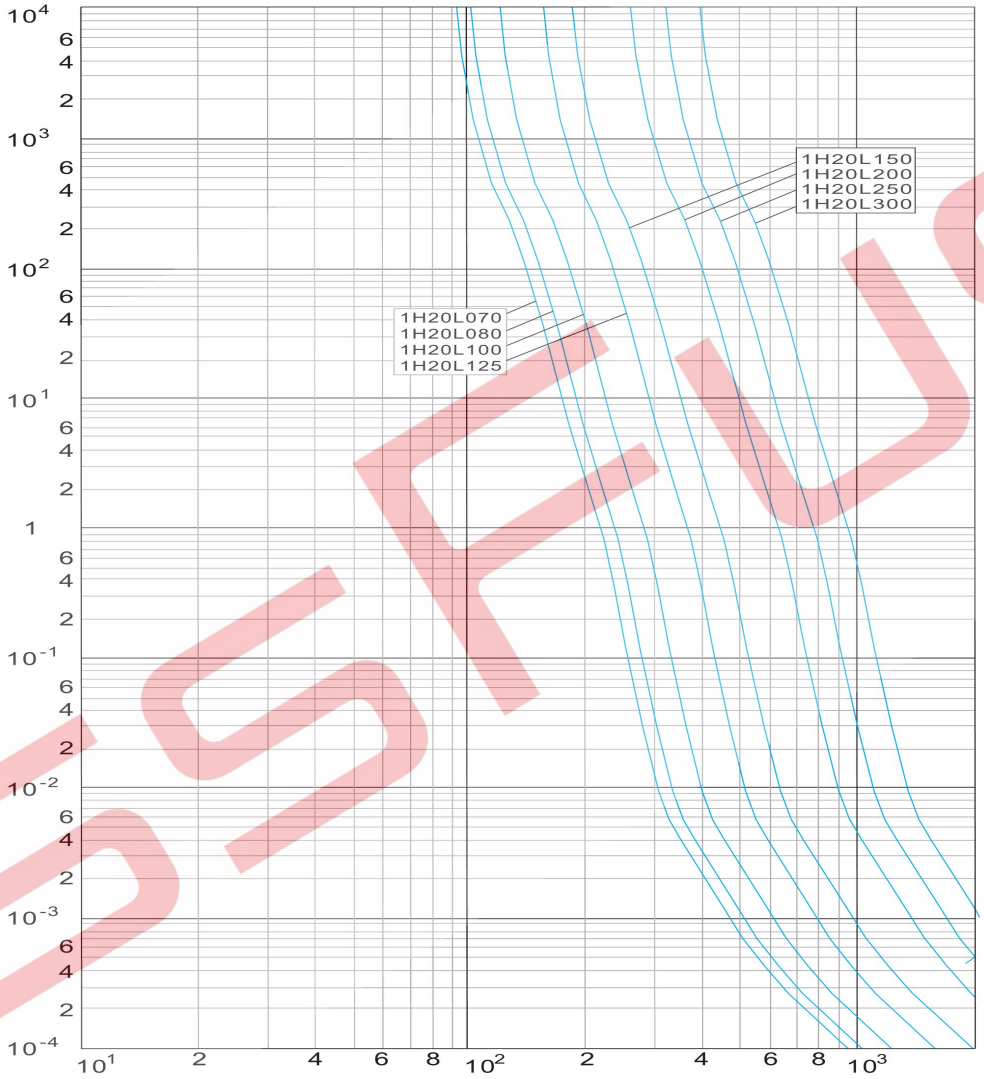
NO:	Product model	Rated current （A）	Rated voltage DC (V)	Maximum voltage drop 110%(mV)	Breaking Capacity （KA）
1	1H20L070	70	125V/150V	100	20
2	1H20L080	80	125V/150V	90	20
3	1H20L100	100	125V/150V	96	20
4	1H20L125	125	125V/150V	86	20
5	1H20L150	150	125V/150V	96	20
6	1H20L200	200	125V/150V	87	20
7	1H20L250	250	125V/150V	84	20
8	1H20L300	300	125V/150V	85	20

7. Product scale:：



8. Characteristic curve:

EssFuse


1H20L150
1H20L200
1H20L250
1H20L300
1H20L070
1H20L080
1H20L100
1H20L125