



1H20E Series AC/DC(EV) fuse

1. Purpose and use

This series of fuses are applicable to rated DC voltage (125V / 150V), AC 300V, rated current 50A-400A and high sectioning capacity (50kA AC) (20kadc). It is 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 reference UL248-13

2. Normal working conditions

Normal operating conditions of ambient air temperature: $-5\text{ }^{\circ}\text{C} \sim 40\text{ }^{\circ}\text{C}$; allowable operating conditions: $-40\text{ }^{\circ}\text{C} \sim +125\text{ }^{\circ}\text{C}$;

3. Use category

Full range fast fuse(aR)

4. Structural characteristics

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



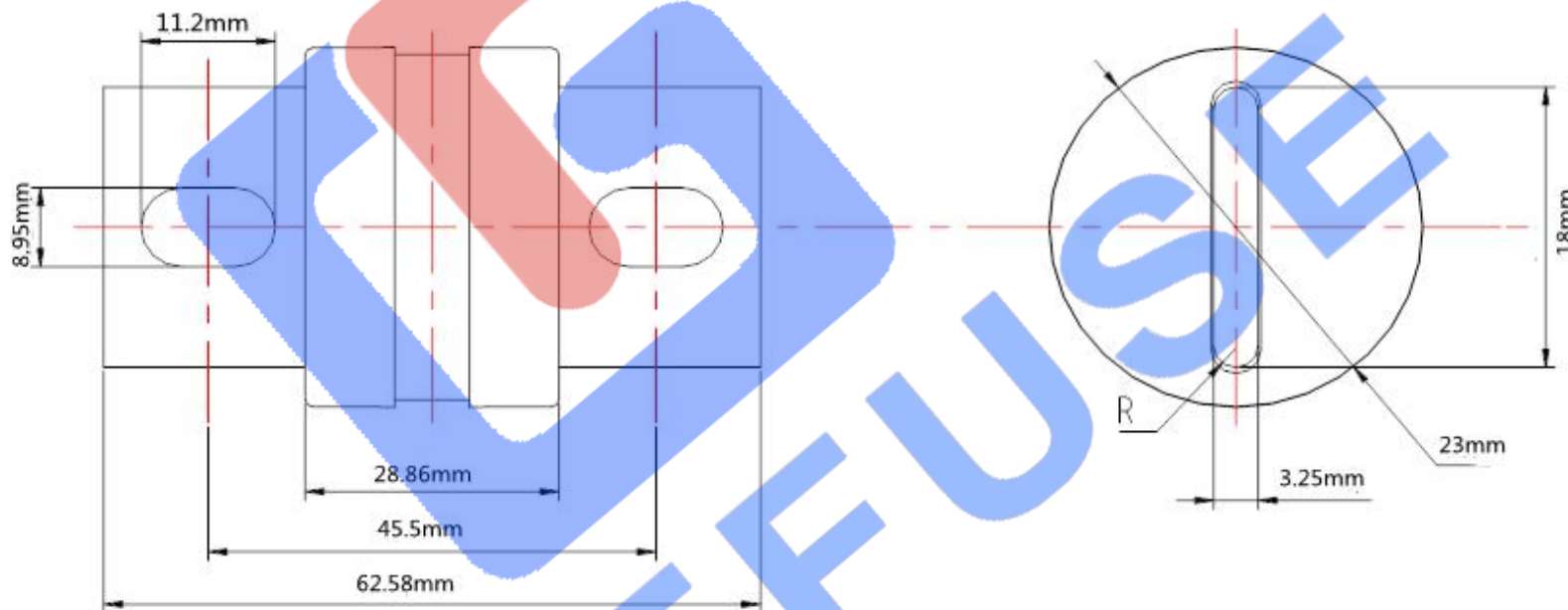
The melt is sealed in the melting tube with a variable cross-section melt made of 99.99% pure silver. The melting tube is filled with chemically treated high-purity quartz sand and specially treated chemical materials as arc extinguishing medium. Silver plating on the contact surface ensures reliable electrical performance and reduces temperature rise and power consumption; Both ends of the melt are firmly connected with the contact through spot welding, which improves the safety and reliability of breaking short-circuit fault current

5. Main parameters

| NO: | Product model | Rated current (A) | I ² T(A ² Sec) | | Power Loss (W) |
|-----|---------------|----------------------|--------------------------------------|----------|-------------------|
| | | | Pre-arc | Clearing | |
| 1 | 1H20E050 | 50 | 228 | 520 | 5.2 |
| 2 | 1H20E060 | 60 | 326 | 740 | 5.9 |
| 3 | 1H20E070 | 70 | 450 | 3000 | 6.6 |
| 4 | 1H20E080 | 80 | 650 | 5000 | 7.4 |
| 5 | 1H20E100 | 100 | 1150 | 11000 | 8.9 |
| 6 | 1H20E125 | 125 | 1800 | 17000 | 11 |
| 7 | 1H20E150 | 150 | 2560 | 24500 | 13 |
| 8 | 1H20E200 | 200 | 4700 | 43000 | 17 |
| 9 | 1H20E250 | 250 | 7400 | 67000 | 21 |
| 10 | 1H20E300 | 300 | 10510 | 95000 | 26 |
| 11 | 1H20E350 | 350 | 15200 | 132000 | 29 |
| 12 | 1H20E400 | 400 | 20000 | 164000 | 34 |



6.Product scale:



7. Characteristic curve:



曲线图/Time current Curve

