

# 1000Vdc Square Body Fuse

## HMSB10 Series

### Fast Acting Fuse



#### Features

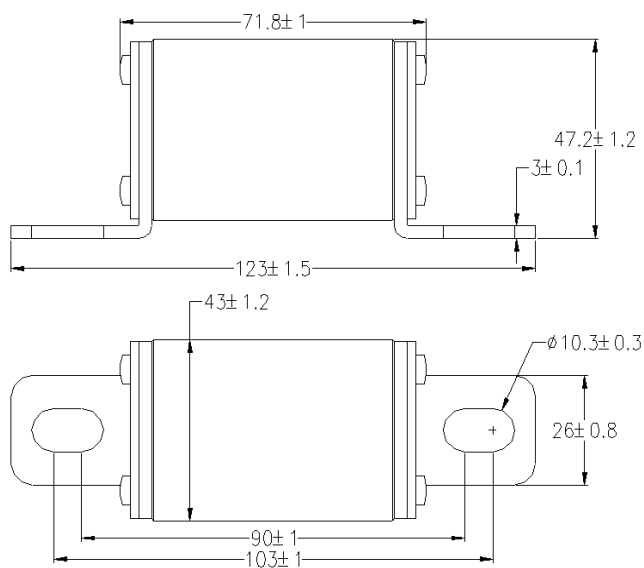
- Fast Acting fuse for EV/HEV/ESS
- 1000Vdc ideal for EV or HEV application
- Excellent DC performance
- Design to UL248-1 & UL248-20
- Comply RoHS directive

#### Specifications

| Part Number    | Rated Current<br>(A) | Rated Voltage<br>(Vdc) | Breaking Capacity<br>(A) | $I^2t$ (A <sup>2</sup> s) |                | Power Loss<br>At 0.5In (W) |
|----------------|----------------------|------------------------|--------------------------|---------------------------|----------------|----------------------------|
|                |                      |                        |                          | Pre-arc                   | Total @1000Vdc |                            |
| HMSB10-200A-TA | 200                  | 1000                   | 50000                    | 10075                     | 40800          | 7.0                        |
| HMSB10-250A-TA | 250                  | 1000                   | 50000                    | 18000                     | 77000          | 8.5                        |
| HMSB10-300A-TA | 300                  | 1000                   | 50000                    | 28200                     | 132000         | 9.8                        |

Temperature Rise: <50K with 50% of rated current.

#### Dimension (mm)



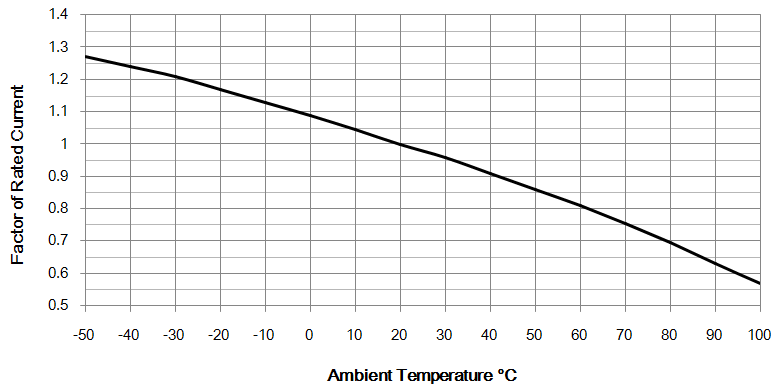
Note:  $20 \pm 1$ Nm (M10)

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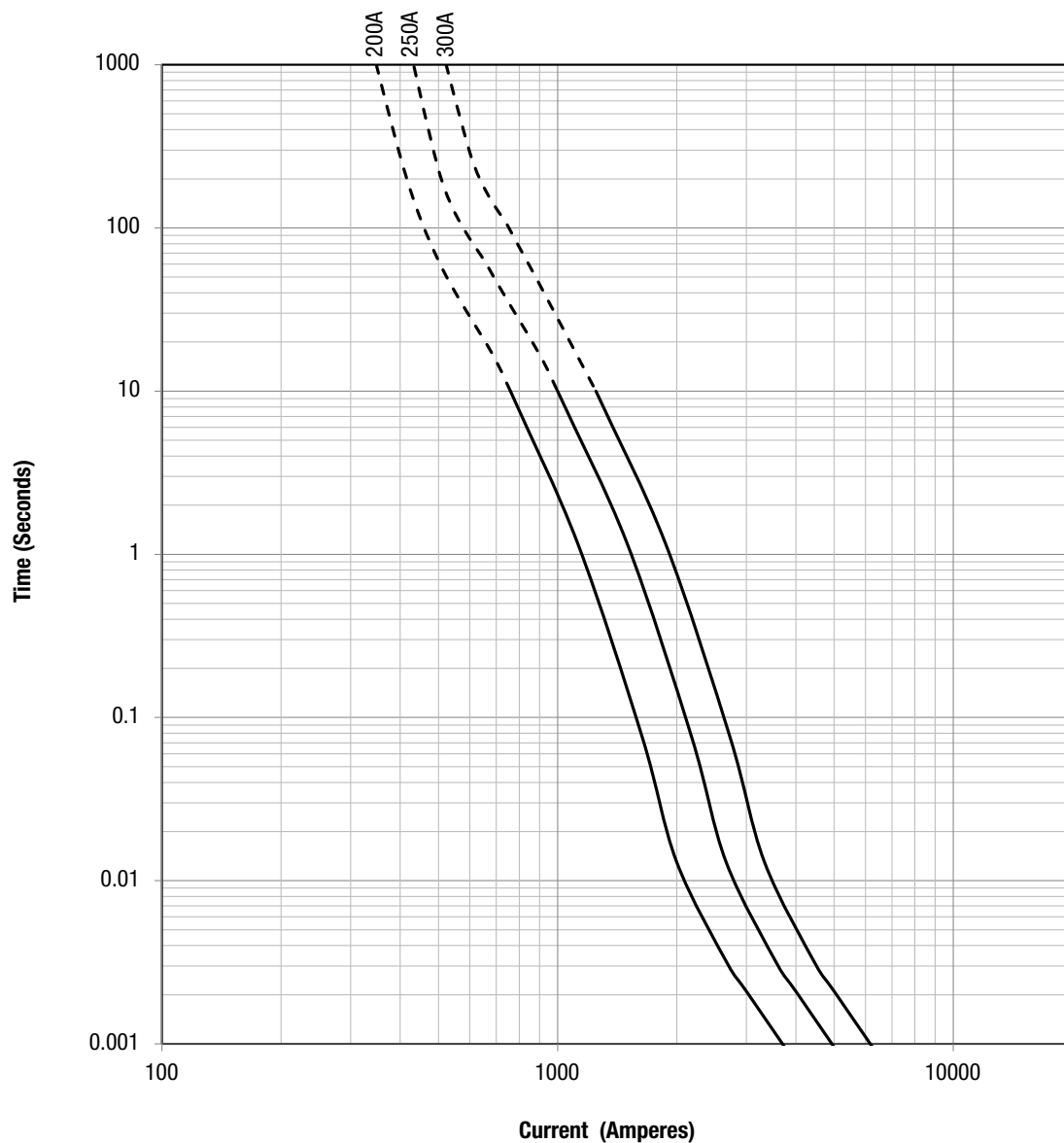
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### Temperature Re-Rating Curve



Operating Temperature: -40°C to +100°C, with proper rerating factor applied.

### 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.