

## MIDI Dc Fuse

## PMD-70V Series

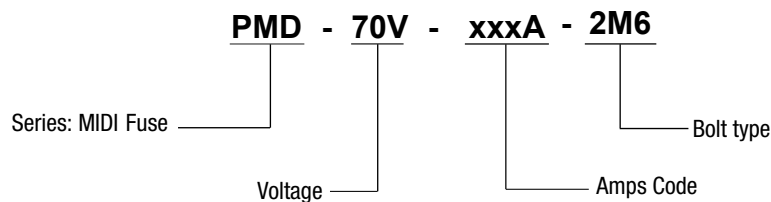
### Bolt Down Fuse

#### Description

- Rated Voltage: 70VDC
- Rated Current: 30-200A
- Interrupting Rating: 2500A@70VDC
- Allowable use conditions: -40°C ~125°C
- Recommended installation torque:  
6~9 Nm(12Nm Max.)/M6
- Metal material: Tinned copper alloy
- Flammability rating: U.L. 94 V0
- Standard: ISO 20934  
ISO 16750  
GB/T 31465  
IATF 16949



#### Part Numbering System



#### Electrical Characteristics

| % of Ampere Rating | Opening Time  |               |
|--------------------|---------------|---------------|
|                    | 30~125A       | 150~200A      |
| 100%               | 100hours Min. | 100hours Min. |
| 135%               | 300sec Min.   | -             |
| 150%               | 500sec Max.   | -             |
| 200%               | 50sec Max.    | 50sec Max.    |
| 300%               | 4sec Max.     | 4sec Max.     |
| 500%               | 1sec Max.     | 1sec Max.     |
| 600%               | 0.07sec Max.  | 0.07sec Max.  |

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#### Specifications

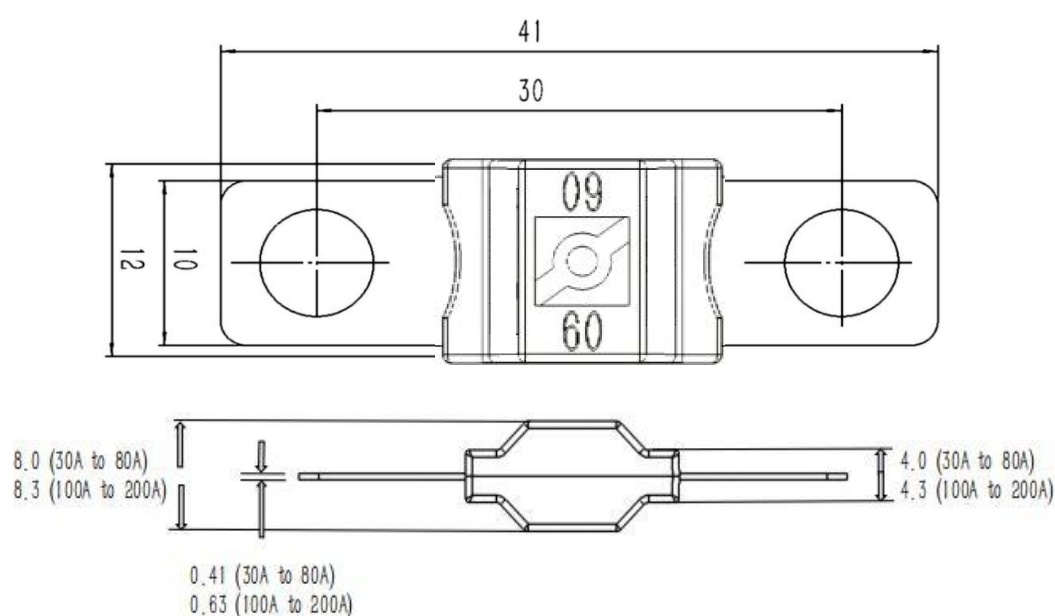
| Material number  | Ampere rating | Interrupting Rating | Typical Voltage Drop (mV) | Typical Cold Resistance (mOhms) | I <sup>2</sup> t (A <sup>2</sup> s) | Wire Specification (mm) |
|------------------|---------------|---------------------|---------------------------|---------------------------------|-------------------------------------|-------------------------|
| PMD-70V-30A-2M6  | 30A           | 2500A@70VDC         | 74                        | 2.03                            | 4,275                               | 2.5                     |
| PMD-70V-40A-2M6  | 40A           |                     | 73                        | 1.43                            | 6,000                               | 4                       |
| PMD-70V-50A-2M6  | 50A           |                     | 73                        | 0.98                            | 8,750                               | 6                       |
| PMD-70V-60A-2M6  | 60A           |                     | 70                        | 0.89                            | 13,500                              | 6                       |
| PMD-70V-70A-2M6  | 70A           |                     | 69                        | 0.83                            | 14,700                              | 10                      |
| PMD-70V-80A-2M6  | 80A           |                     | 72                        | 0.59                            | 17,440                              | 10                      |
| PMD-70V-100A-2M6 | 100A          |                     | 69                        | 0.49                            | 27,505                              | 16                      |
| PMD-70V-125A-2M6 | 125A          |                     | 78                        | 0.38                            | 39,453                              | 25                      |
| PMD-70V-150A-2M6 | 150A          |                     | 61                        | 0.31                            | 56,700                              | 25                      |
| PMD-70V-175A-2M6 | 175A          |                     | 61                        | 0.25                            | 69,458                              | 25                      |
| PMD-70V-200A-2M6 | 200A          |                     | 53                        | 0.21                            | 138,730                             | 25                      |

\*Note:

1. The I<sup>2</sup>t value is calculated by using a time curve before the arc occurs

#### Product Dimension Unit: mm

For 2bolts, Ordering P/N: PMD-70V-xxxA-2M6 or PMD-70V-xxxA-2M8

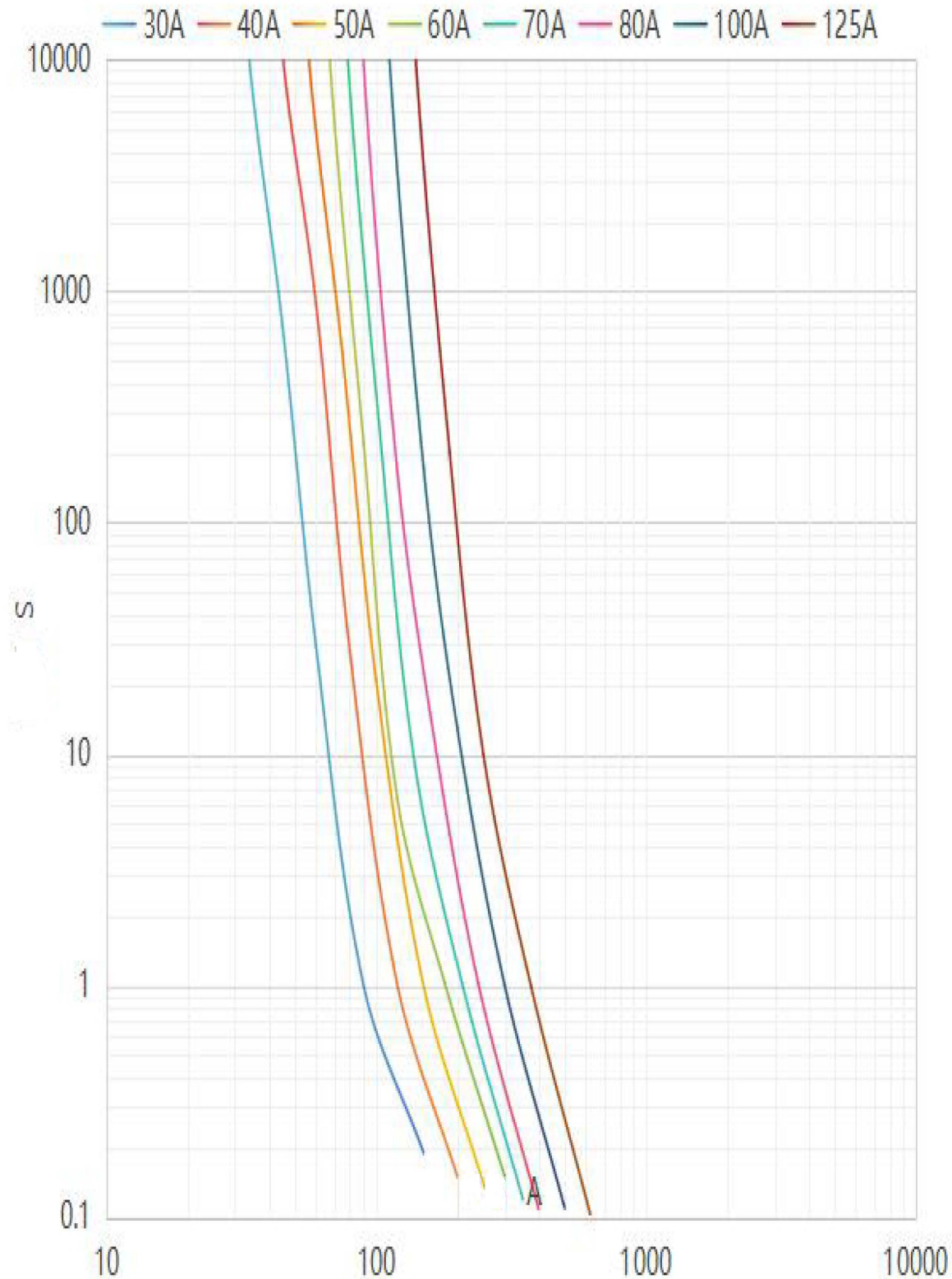


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#### Time-current characteristics curves

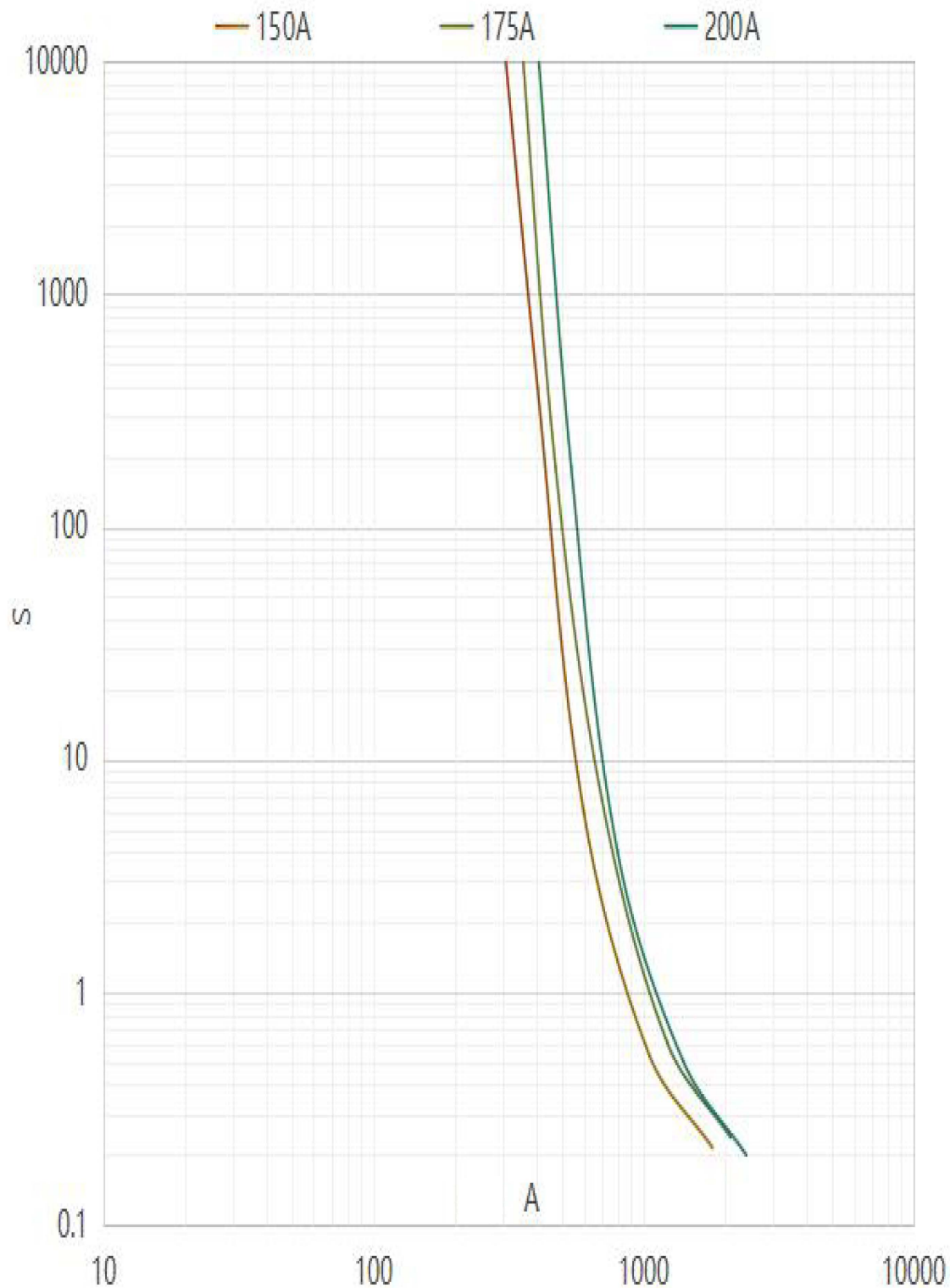


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#### Time-current characteristics curves



## MIDI Dc Fuse

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#### Temperature-current characteristics

| Current (A) | -40℃ | -20℃ | 0℃  | 20℃ | 55℃ | 85℃ | 100℃ | 110℃ | 120℃ |
|-------------|------|------|-----|-----|-----|-----|------|------|------|
| 30A         | 30   | 30   | 30  | 30  | 27  | 24  | 22   | 17   | 15   |
| 40A         | 40   | 40   | 40  | 40  | 37  | 31  | 28   | 25   | 22   |
| 50A         | 50   | 50   | 50  | 50  | 48  | 45  | 41   | 34   | 29   |
| 60A         | 60   | 60   | 60  | 60  | 55  | 48  | 43   | 37   | 31   |
| 70A         | 70   | 70   | 70  | 70  | 65  | 59  | 52   | 46   | 40   |
| 80A         | 80   | 80   | 80  | 80  | 74  | 72  | 64   | 55   | 48   |
| 100A        | 100  | 100  | 100 | 100 | 93  | 83  | 75   | 65   | 56   |
| 125A        | 125  | 125  | 125 | 125 | 121 | 103 | 94   | 80   | 70   |
| 150A        | 150  | 150  | 150 | 150 | 142 | 118 | 105  | 89   | 78   |
| 175A        | 175  | 175  | 175 | 175 | 166 | 129 | 110  | 93   | 80   |
| 200A        | 200  | 200  | 200 | 200 | 187 | 138 | 118  | 97   | 86   |

#### Temperature-current characteristics curves

Temperature security margin is 20%.

