

# DC Distribution Fuses

**FAIL-SAFE OVERVOLTAGE  
PROTECTION IN  
A FULL RANGE  
OF OPTIONS**

- MDC06A -  
DC Distribution Fuse ..... DC 2
- MDC07A -  
DC Distribution Fuse .....DC 12
- MDC10A -  
DC Distribution Fuse .....DC 17
- MDC10M -  
DC Distribution Fuse ..... DC 26
- MDC08B -  
Battery Module Fuse. .... DC 39
- MDC15A -  
DC Distribution Fuse ..... DC 43
- MDC15FH65 DC Fuse Holder  
..... DC 45



# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION FUSES

FOR DC DISTRIBUTION



**MDC**  
DC Distribution Series

With the evolution of DC distribution and new technologies on the horizon, Mersen's MDC DC Distribution Series is the product line to help customers achieve ultimate protection for today and tomorrow. The product portfolio allows system integrators and OEM manufacturers to select fuses easily for the protection of DC distribution in a variety of applications.

The MDC Series incorporates proven fuse technologies which provide optimal current limitation while achieving maximum performance. The MDC portfolio is designed to easily allow customers to choose fuses where coordination with other DC components is critical, eliminating unnecessary downtime.

| Technical Data Overview |  |
|-------------------------|--|
| Volts                   | 600VDC/AC  |
| Amps                    | 1-50A  |
| IR                      | 100kA @ 600VDC/VAC (1A to 30A)<br>20kA @ 600VDC (35A to 50A)<br>50kA @ 250VDC (35A to 50A) |
| AC MBC                  | 2.0 x In @ Rated Voltage (1-30A)<br>2.5 x In @ Rated Voltage (35-50A)                      |
| DC MBC                  | 2.0 x In @ Rated Voltage (1-30A) L/R ≤ 1ms<br>3.6 x In @ Rated Voltage (35-50A) L/R ≤ 1ms  |

## FEATURES/BENEFITS

- Designed for DC applications
- Low watt losses
- High cycling performance
- Low & high current interrupting capability
- Ultra compact size

## APPLICATIONS

- DC Distribution
- DC Cabling and Bus
- DC Auxiliary Circuits
- Electrical Energy Storage
- EV Charging
- Critical Power
- UPS Protection

## APPROVALS/STANDARDS

- UL Listed E33925 (1-30A)
- DC Listed (1-30A)
- UL Recognized Component File E60314 (35-50A)









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# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## CATALOG NUMBERS

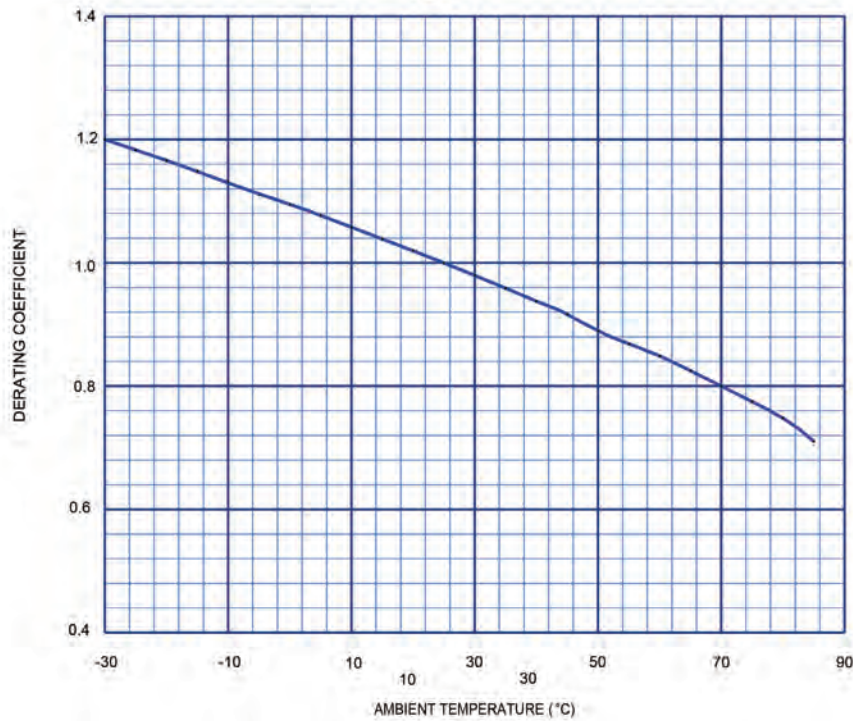
| Ferrule   |           |           | Surface Mount  |                     |                   | PC Mount  |                                 |                           |
|---|-----------|-----------|--|---------------------|-------------------|---|---------------------------------|---------------------------|
|   |           |           |   |                     |                   |   |                                 |                           |
| MDC06A30  |           |           | MDC06A30S  |                     |                   | MDC06A30P   |                                 |                           |
| Catalog Number  |           |           | Rated Voltage (VAC)  | Rated Voltage (VDC) | Rated Current (A) | DC Min. Breaking Capacity (MBC)*  | DC Max Interrupting Rating (kA) | DC Time Constant L/R (ms) |
| MDC06A1   | MDC06A1S  | MDC06A1P  | 600  | 600                 | 1                 | 2   | 100                             | ≤1                        |
| MDC06A2   | MDC06A2S  | MDC06A2P  | 600  | 600                 | 2                 | 4   | 100                             | ≤1                        |
| MDC06A3   | MDC06A3S  | MDC06A3P  | 600  | 600                 | 3                 | 6   | 100                             | ≤1                        |
| MDC06A4   | MDC06A4S  | MDC06A4P  | 600  | 600                 | 4                 | 8   | 100                             | ≤1                        |
| MDC06A5   | MDC06A5S  | MDC06A5P  | 600  | 600                 | 5                 | 10  | 100                             | ≤1                        |
| MDC06A6   | MDC06A6S  | MDC06A6P  | 600  | 600                 | 6                 | 12  | 100                             | ≤1                        |
| MDC06A7   | MDC06A7S  | MDC06A7P  | 600  | 600                 | 7                 | 14  | 100                             | ≤1                        |
| MDC06A8   | MDC06A8S  | MDC06A8P  | 600  | 600                 | 8                 | 16  | 100                             | ≤1                        |
| MDC06A10  | MDC06A10S | MDC06A10P | 600  | 600                 | 10                | 20  | 100                             | ≤1                        |
| MDC06A12  | MDC06A12S | MDC06A12P | 600  | 600                 | 12                | 24  | 100                             | ≤1                        |
| MDC06A15  | MDC06A15S | MDC06A15P | 600  | 600                 | 15                | 30  | 100                             | ≤1                        |
| MDC06A20  | MDC06A20S | MDC06A20P | 600  | 600                 | 20                | 40  | 100                             | ≤1                        |
| MDC06A25  | MDC06A25S | MDC06A25P | 600  | 600                 | 25                | 50  | 100                             | ≤1                        |
| MDC06A30  | MDC06A30S | MDC06A30P | 600  | 600                 | 30                | 60  | 100                             | ≤1                        |
| MDC06A35  | MDC06A35S | MDC06A35P | 600  | 600                 | 35                | 126   | 20                              | ≤1                        |
| MDC06A40  | MDC06A40S | MDC06A40P | 600  | 600                 | 40                | 144   | 20                              | ≤1                        |
| MDC06A50  | MDC06A50S | MDC06A50P | 600  | 600                 | 50                | 180   | 20                              | ≤1                        |

\*Fuse Minimum Breaking Capacity (MBC): the smallest current the fuse has been tested to safely clear at a given voltage and time constant

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## AMPERE RATING VS AMBIENT TEMPERATURE

### MDC06A



## I<sup>2</sup>t DATA AT 600VAC, 100KA SYM. RMS AMPERES, 20% POWER FACTOR

### MDC06A

| Ampere Rating | Melting I <sup>2</sup> t (A <sup>2</sup> s) | Clearing I <sup>2</sup> t at 600v (A <sup>2</sup> s) |
|---------------|---|--|
| 1/10          | 0.01  | 0.03   |
| 1/8           | 0.016                                       | 0.04   |
| 2/10          | 0.04  | 0.11   |
| 1/4           | 0.063                                       | 0.18   |
| 1/2           | 0.25  | 0.7  |
| 3/4           | 0.56  | 1.6  |
| 1             | 1.7   | 5  |
| 1 1/2         | 4   | 8  |
| 2             | 6.7   | 13   |
| 3             | 3.3   | 8  |
| 4             | 10.4  | 22   |
| 5             | 22  | 60   |
| 6             | 50  | 130  |
| 7             | 65  | 180  |
| 8             | 64  | 420  |
| 10            | 130   | 650  |
| 12            | 190   | 900  |
| 15            | 130   | 800  |
| 20            | 270   | 1600   |
| 25            | 510   | 2500   |
| 30            | 920   | 3800   |

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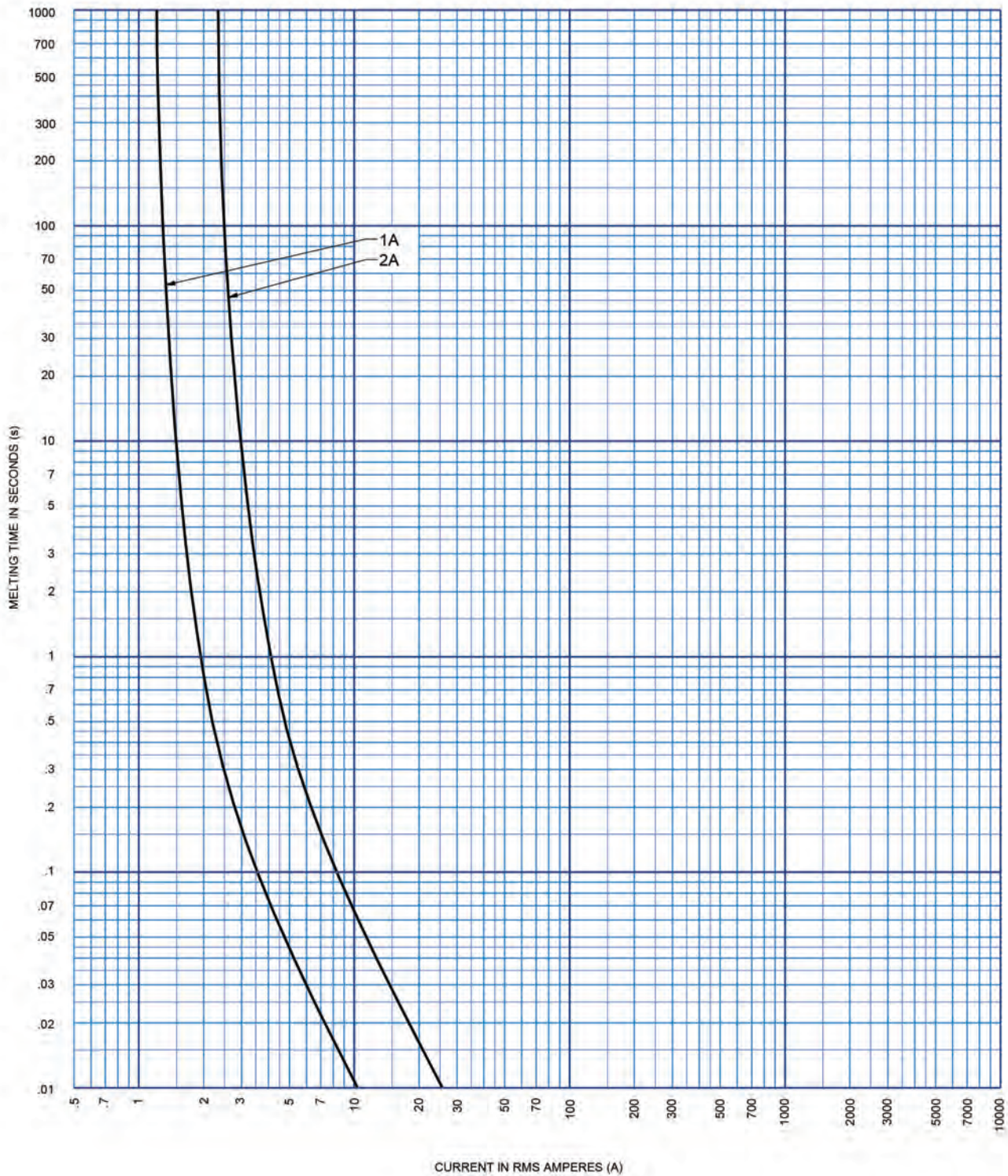
# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## MELTING TIME CURRENT DATA

### MDC06A 1-2A



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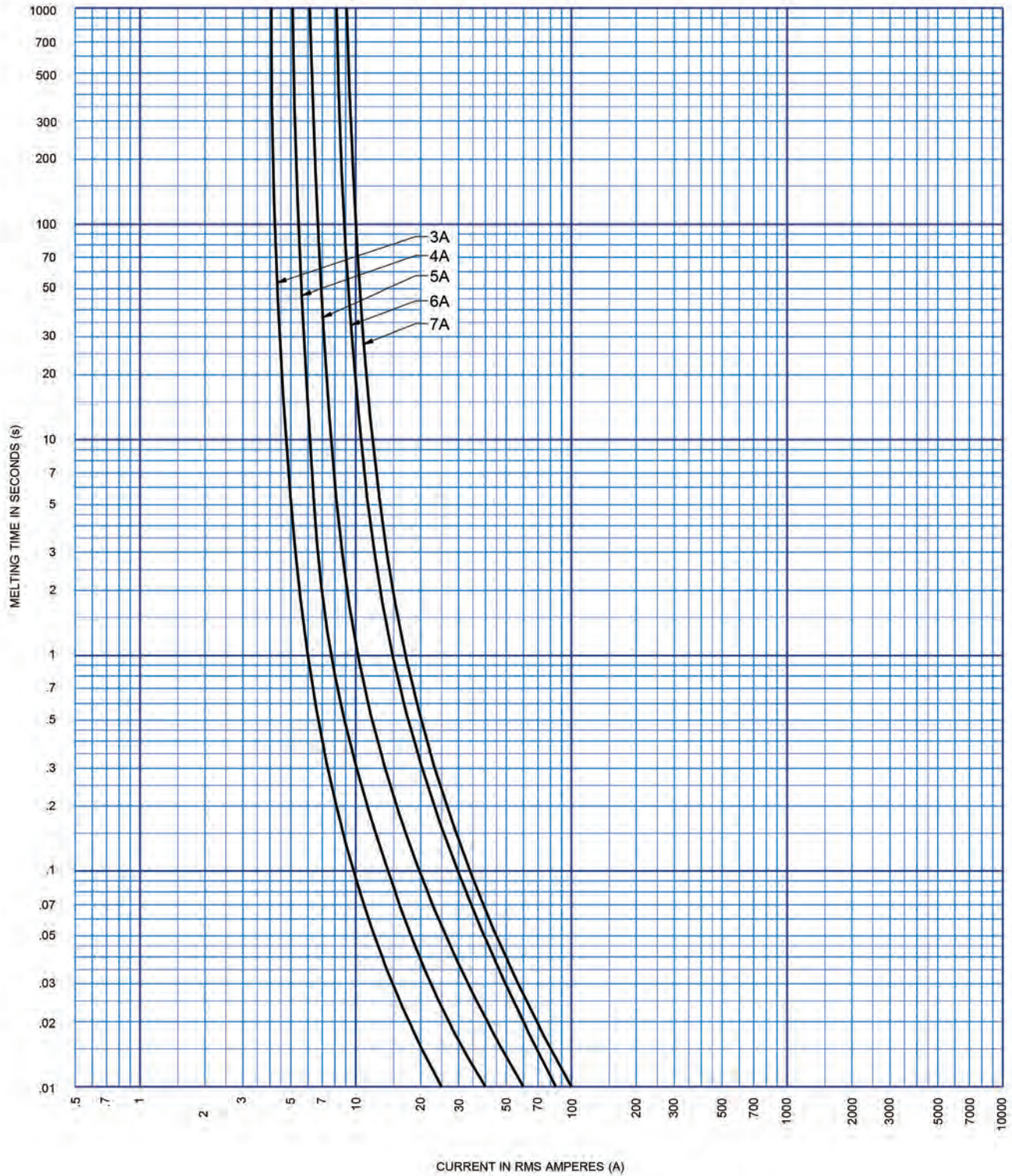
# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## MELTING TIME CURRENT DATA

### MDC06A 3-7A



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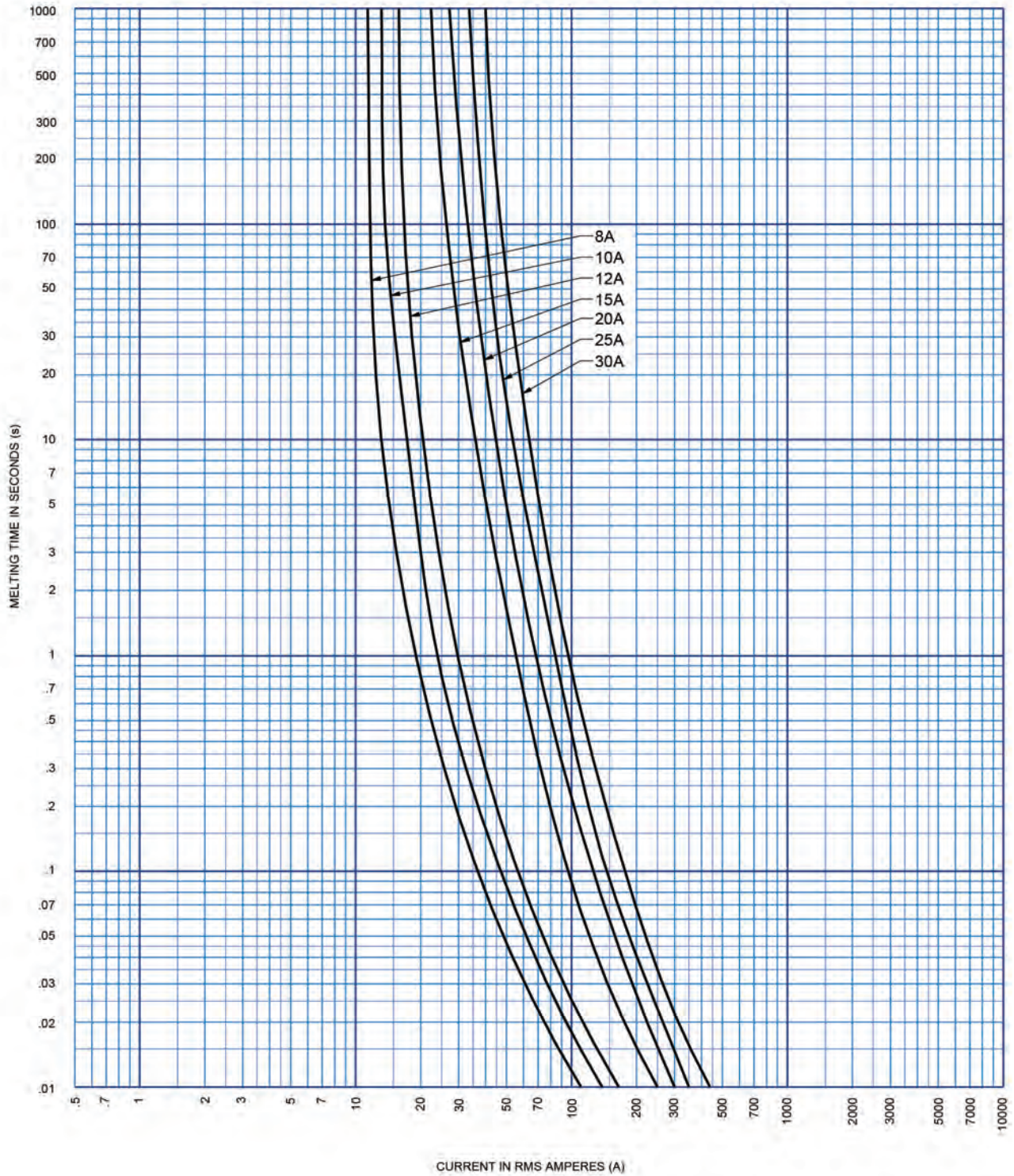
# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## MELTING TIME CURRENT DATA

### MDC06A 8-30A



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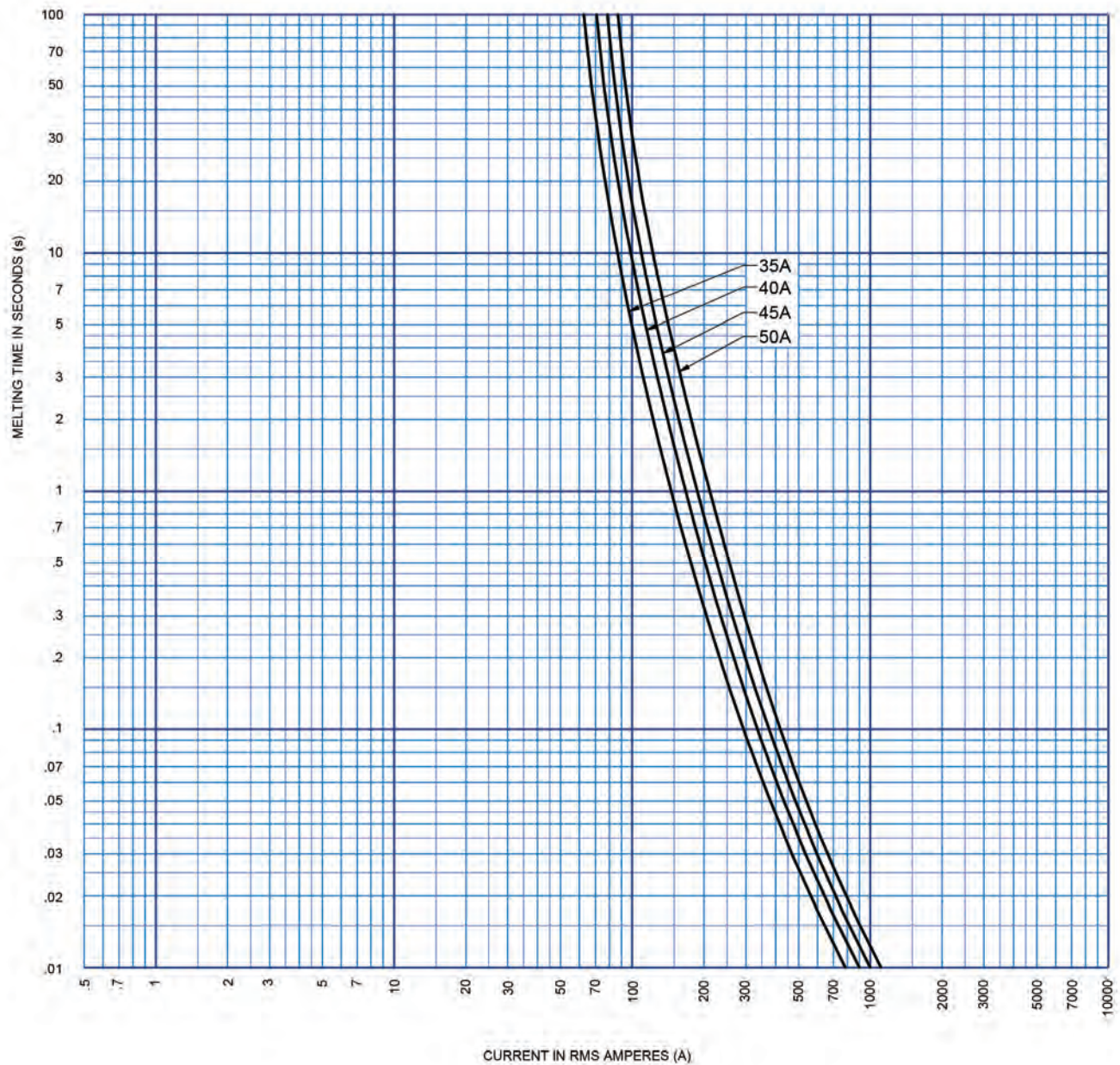
# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## MELTING TIME CURRENT DATA

### MDC06A 35-50A



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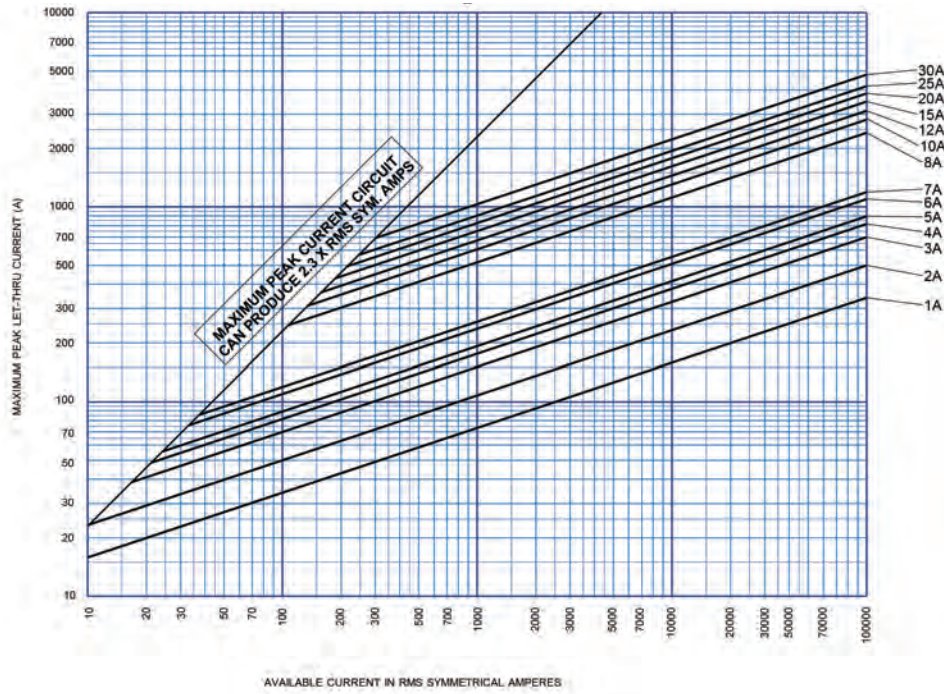
# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

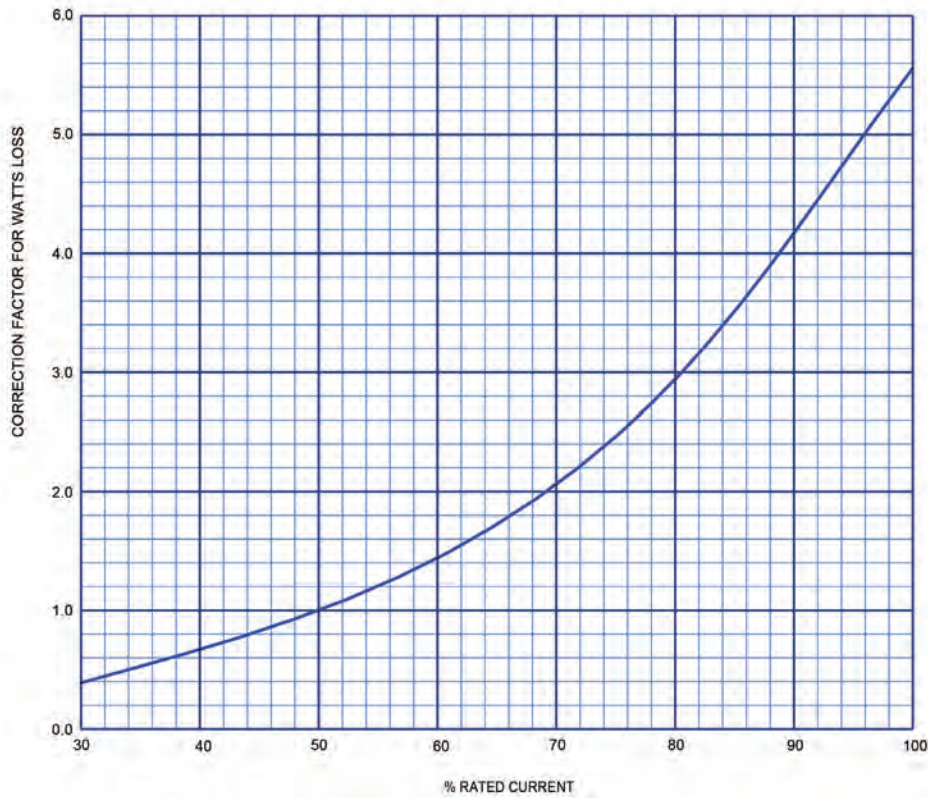
## PEAK LET-THRU CURRENT DATA

### MDC06A



## WATTS LOSS VS RATED CURRENT

### MDC06A 5-50A



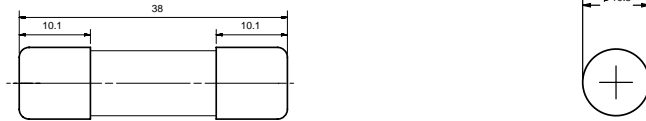
# MDC06A - DC Distribution Fuse

600V DC/AC 10x38mm Auxiliary Fuse

DC DISTRIBUTION FUSES

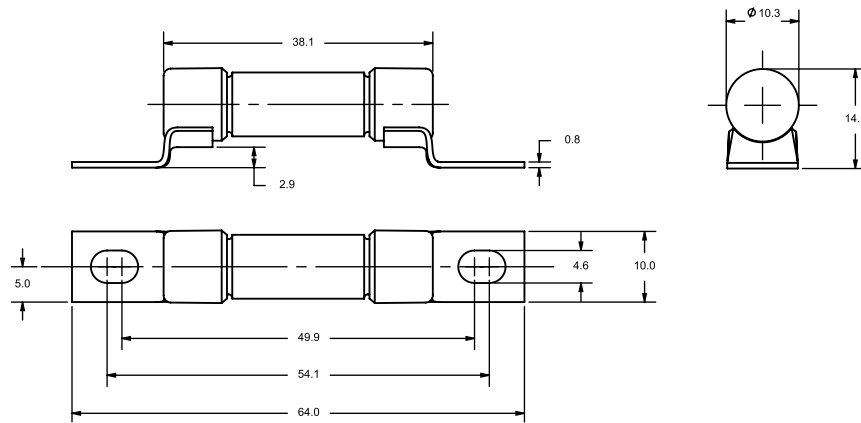
## DIMENSIONS:

### MDC06A(1-50) Ferrule Fuse



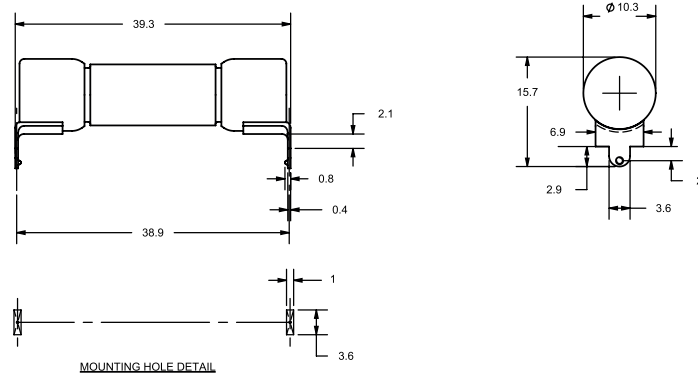
Dimensions in mm

### MDC06A(1-50)S Surface Mount Fuse



Dimensions in mm

### MDC06A(1-50)P PC Board Mount



Dimensions in mm

## Recommended Mounting Torque and Bolt Size

| Fuse Type | Mounting Style     | Fuse Rating | Thread Size | Tightening Torque |        |
|-----------|--------------------|-------------|-------------|-------------------|--------|
|           |                    |             |             | N-m               | In-lbs |
| MDC06A    | Surface Mount (-S) | 1-50A       | 1/4-20      | 5.5               | 50     |

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## RECOMMENDED FUSE BLOCKS for midget (10x38mm fuses)

### USM and USFM



| Number of Poles | Catalog Number                    |                 |                          |                      |
|-----------------|-----------------------------------|-----------------|--------------------------|----------------------|
|                 | UltraSafe™ Indicating Fuse Holder | Screw Connector | Pressure Plate Connector | Copper Box Connector |
| Adder           |                                   | 30310           | 30320                    | 30350                |
| 1               | USM1I                             | 30311           | 30321                    | 30351                |
| 2               | USM2I                             | 30312           | 30322                    | 30352                |
| 3               | USM3I                             | 30313           | 30323                    | 30353                |
| 3               | USFM10I                           |                 |                          |                      |

### USGM



| Number of Poles | Catalog Number                        |                                   |   |   |
|-----------------|---------------------------------------|-----------------------------------|---|---|
|                 | UltraSafe™ Non-Indicating Fuse Holder | UltraSafe™ Indicating Fuse Holder | UltraSafe™ Photovoltaic Midget Non-Indicating | UltraSafe™ Photovoltaic Midget Indicating |
| 1               | USGM1                                 | USGM1I, USGM1I-DC24               | USGM1HEL                                      | USGM1IHEL                                 |
| 2               | USGM2                                 | USGM2I                            |   |   |
| 3               | USGM3                                 | USGM3I                            |   |   |
| 4               | USGM4                                 | USGM4I                            |   |   |
| 3 + N           | USGM3N                                | USGM3IN                           |   |   |

## RECOMMENDED FUSE CLIPS



### C08919P

- Fuse Clips 30A - 13/32" mounting hole: .196" dia. - #10



### C08915P

- Fuse Clips 30A - 13/32" mounting hole: .172" dia. - #8



### SDC7

- PC Mount Fuse Clips 30A max - 13/32"

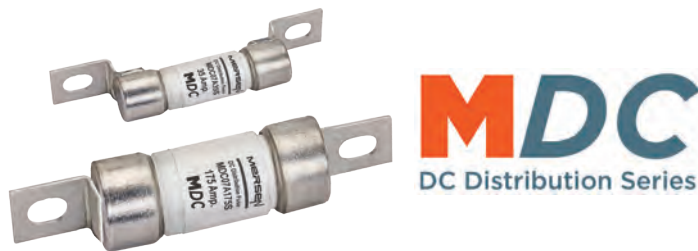
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# MDC07A - DC Distribution Fuse

700VDC Auxiliary Fuse

DC DISTRIBUTION FUSES

FOR DC DISTRIBUTION



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The MDC Series incorporates proven fuse technologies which provide optimal current limitation while achieving maximum performance. The MDC portfolio is designed to easily allow customers to choose fuses where coordination with other DC components is critical, eliminating unnecessary downtime.

| Technical Data Overview |               |
|-------------------------|---------------|
| Volts                   | 700VDC        |
| Amps                    | 35A-175A      |
| IR                      | 20kA @ 700VDC |
| DC MBC                  | See Table     |

## FEATURES/BENEFITS

- Designed for DC applications
- Low watt losses
- High cycling performance
- Ultra compact size

## APPLICATIONS

- DC Auxiliary Circuits
- Electrical Energy Storage
- EV Charging
- Critical Power
- UPS Protection

## APPROVALS/STANDARDS

- UL Recognized Component  
File E60314







# MDC07A - DC Distribution Fuse

700VDC Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## CATALOG NUMBERS

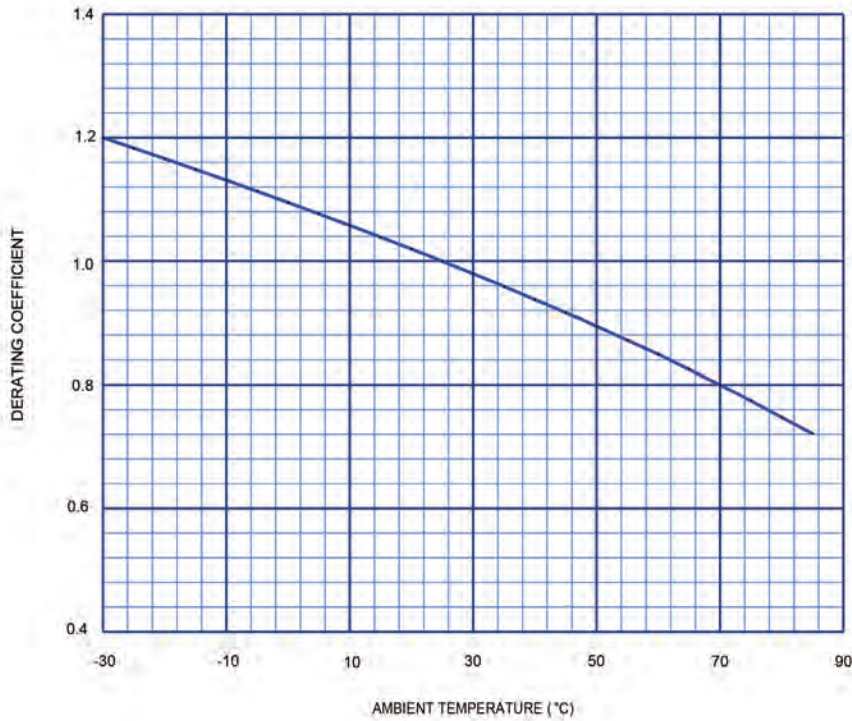
| Surface Mount  |                     |                   |  |                                 |                           |
|--|---------------------|-------------------|--|---------------------------------|---------------------------|
| <br><br><b>MDC07A35S</b> |                     |                   | <br><br><b>MDC07A175S</b> |                                 |                           |
| Catalog Number   | Rated Voltage (VDC) | Rated Current (A) | DC Min. Breaking Capacity (MBC) <sup>*</sup>   | DC Max Interrupting Rating (kA) | DC Time Constant L/R (ms) |
| MDC07A35S  | 700                 | 35                | 123  | 20                              | ≤1                        |
| MDC07A40S  | 700                 | 40                | 148  | 20                              | ≤1                        |
| MDC07A50S  | 700                 | 50                | 175  | 20                              | ≤1                        |
| MDC07A60S  | 700                 | 60                | 198  | 20                              | ≤1                        |
| MDC07A70S  | 700                 | 70                | 196  | 20                              | ≤1                        |
| MDC07A80S  | 700                 | 80                | 264  | 20                              | ≤1                        |
| MDC07A100S   | 700                 | 100               | 330  | 20                              | ≤1                        |
| MDC07A125S   | 700                 | 125               | 1500   | 20                              | ≤1                        |
| MDC07A150S   | 700                 | 150               | 1500   | 20                              | ≤1                        |
| MDC07A160S   | 700                 | 160               | 1488   | 20                              | ≤1                        |
| MDC07A175S   | 700                 | 175               | 1488   | 20                              | ≤1                        |

<sup>\*</sup>Fuse Minimum Breaking Capacity (MBC): the smallest current the fuse has been tested to safely clear at a given voltage and time constant

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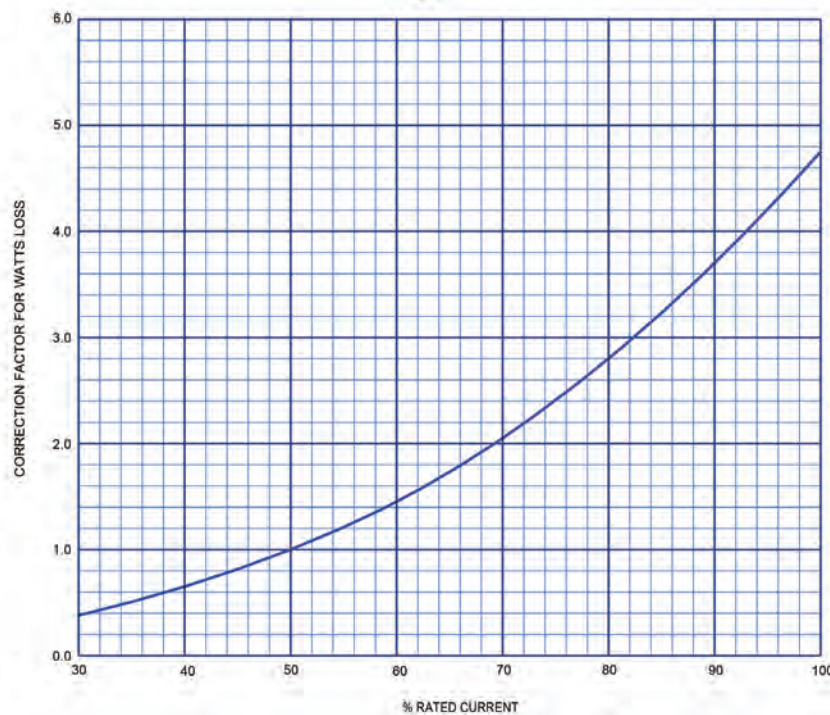
## AMPERE RATING VS AMBIENT TEMPERATURE

MDC07A



## WATTS LOSS VS % RATED CURRENT

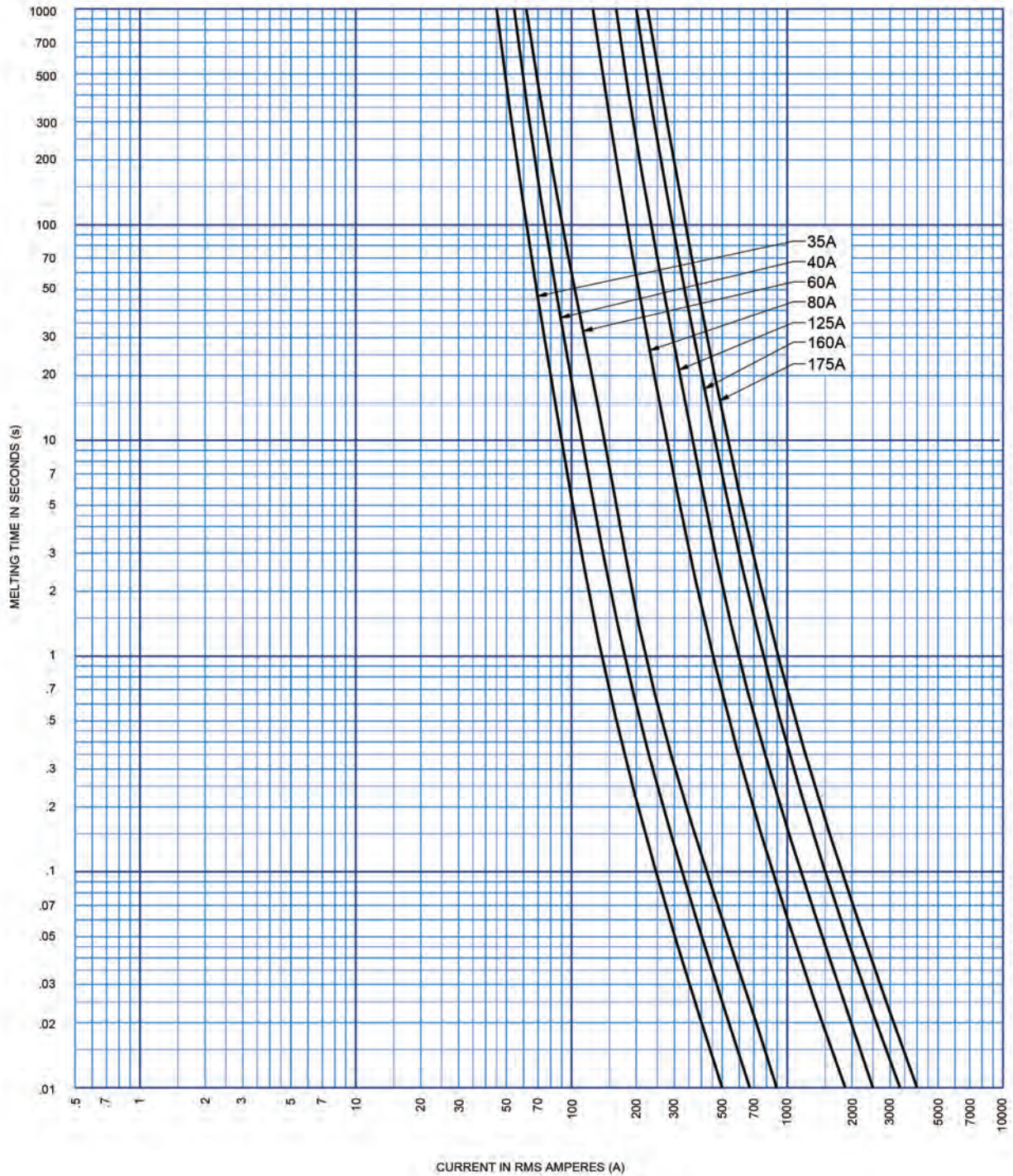
MDC07A



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## MELTING TIME CURRENT DATA

### MDC07A



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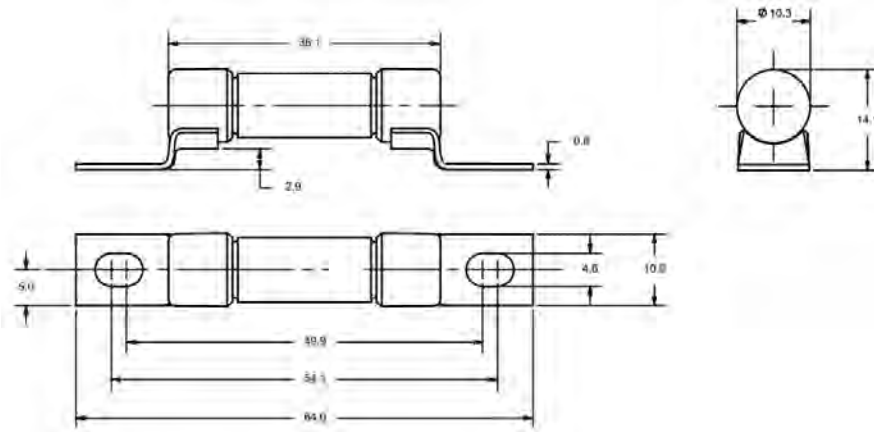
# MDC07A - DC Distribution Fuse

700VDC Auxiliary Fuse

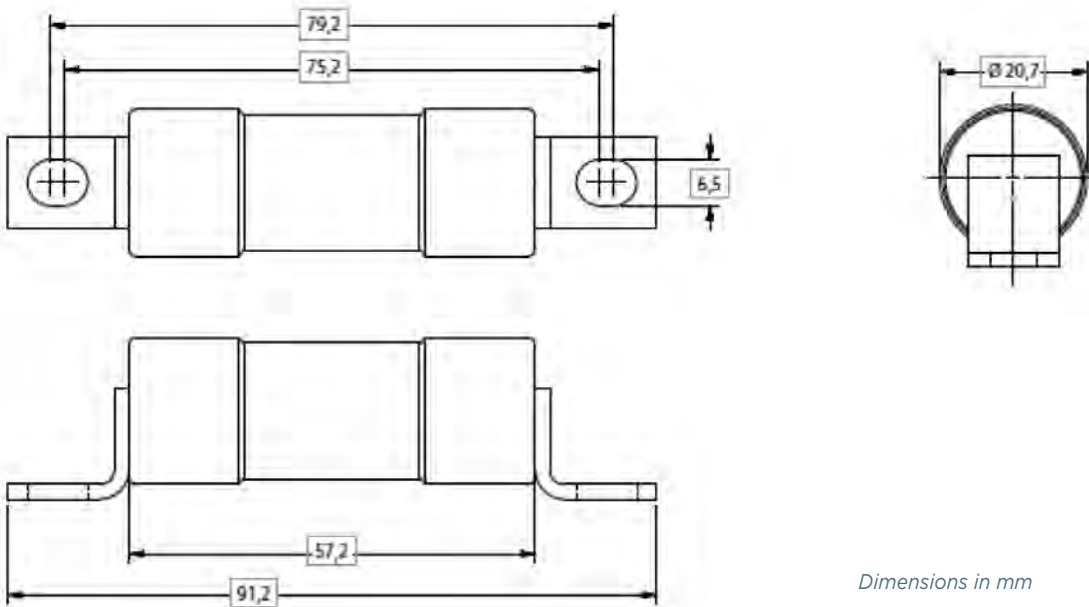
DC DISTRIBUTION  
FUSES

## DIMENSIONS:

### MDC07A(35-60A)S Surface Mount Fuse



### MDC07A(70-175A)S Surface Mount Fuse



### Recommended Mounting Torque and Bolt Size

| Fuse Type | Mounting Style     | Fuse Rating | Thread Size | Tightening Torque |        |
|-----------|--------------------|-------------|-------------|-------------------|--------|
|           |                    |             |             | N-m               | In-lbs |
| MDC07A    | Surface Mount (-S) | 35-175A     | 1/4-20      | 4                 | 50     |

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# MDC10A - DC Distribution Fuse

1000VDC/750VAC 10x38mm Auxiliary Fuse

DC DISTRIBUTION FUSES

FOR DC DISTRIBUTION



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| Technical Data Overview |   |
|-------------------------|---|
| Volts                   | 1000VDC/750VAC  |
| Amps                    | 1A-30A  |
| IR                      | 65kA @ 1000VDC<br>100kA @ 750VAC  |
| AC MBC                  | 2.0 x In @ Rated Voltage  |
| DC MBC                  | 1.3 x In @ Rated Voltage (1-7A) L/R ≤ 1ms<br>2.0 x In @ Rated Voltage (8-30A) L/R ≤ 1ms |

## FEATURES/BENEFITS

- Designed for DC applications
- Low watt losses
- High cycling performance
- Low & high current interrupting capability
- Ultra compact size

## APPLICATIONS

- DC Distribution
- DC Cabling and Bus
- DC Auxiliary Circuits
- Electrical Energy Storage
- EV Charging
- Critical Power
- UPS Protection

## APPROVALS/STANDARDS

- UL Recognized Component File E60314







# MDC10A - DC Distribution Fuse

1000VDC/750VAC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## CATALOG NUMBERS

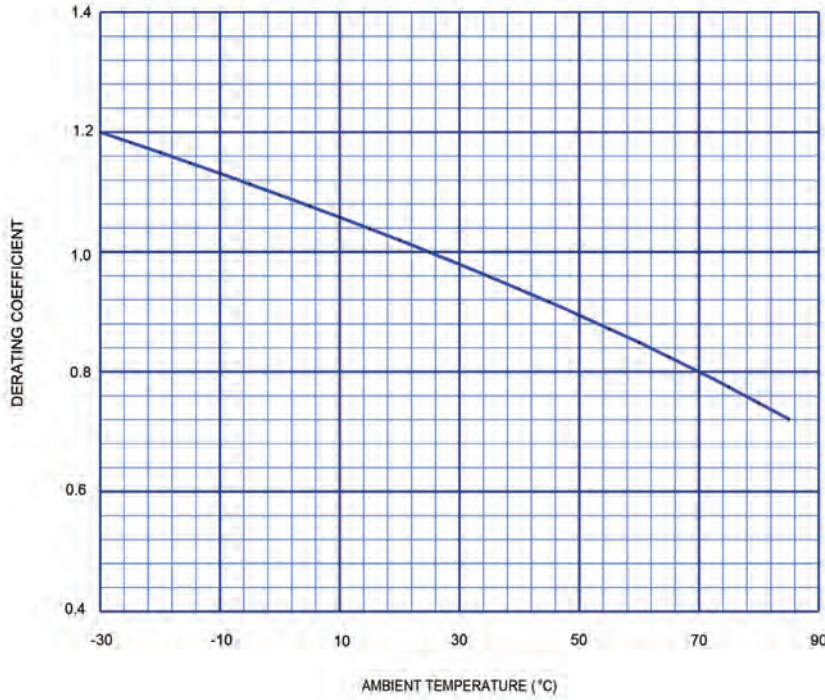
| Ferrule   |              |                     |                     |                   | Surface Mount   |                                 |   |   |                           |
|---|--------------|---------------------|---------------------|-------------------|---|---------------------------------|---|---|---------------------------|
|  |              |                     |                     |                   |   |                                 |   |   |                           |
|  |              |                     |                     |                   |  |                                 |   |   |                           |
| MDC10A30  |              |                     |                     |                   | MDC10A30S   |                                 |   |   |                           |
| Catalog Number  |              | Rated Voltage (VAC) | Rated Voltage (VDC) | Rated Current (A) | DC Min. Breaking Capacity (MBC)*  | DC Max Interrupting Rating (kA) | Melting I <sup>2</sup> t (A <sup>2</sup> s) | Clearing I <sup>2</sup> t at 1000VDC, 10kA (A <sup>2</sup> s) | DC Time Constant L/R (ms) |
| MDC10A1   | MDC10A1S     | 750                 | 1000                | 1                 | 2   | 50                              | 1.2   | 19  | ≤1                        |
| MDC10A2   | MDC10A2S     | 750                 | 1000                | 2                 | 4   | 50                              | 10.4  | 120   | ≤1                        |
| MDC10A3   | MDC10A3S     | 750                 | 1000                | 3                 | 6   | 50                              | 3.1   | 130   | ≤1                        |
| MDC10A3-1/2   | MDC10A3-1/2S | 750                 | 1000                | 3-1/2             | 8   | 50                              | 10.4  | 220   | ≤1                        |
| MDC10A4   | MDC10A4S     | 750                 | 1000                | 4                 | 10  | 50                              | 22  | 330   | ≤1                        |
| MDC10A5   | MDC10A5S     | 750                 | 1000                | 5                 | 12  | 50                              | 49  | 410   | ≤1                        |
| MDC10A6   | MDC10A6S     | 750                 | 1000                | 6                 | 14  | 50                              | 65  | 630   | ≤1                        |
| MDC10A8   | MDC10A8S     | 750                 | 1000                | 8                 | 16  | 50                              | 6.5   | 105   | ≤1                        |
| MDC10A10  | MDC10A10S    | 750                 | 1000                | 10                | 20  | 50                              | 10  | 127   | ≤1                        |
| MDC10A12  | MDC10A12S    | 750                 | 1000                | 12                | 24  | 50                              | 17  | 215   | ≤1                        |
| MDC10A15  | MDC10A15S    | 750                 | 1000                | 15                | 30  | 50                              | 26  | 495   | ≤1                        |
| MDC10A20  | MDC10A20S    | 750                 | 1000                | 20                | 40  | 50                              | 49  | 755   | ≤1                        |
| MDC10A25  | MDC10A25S    | 750                 | 1000                | 25                | 50  | 50                              | 132   | 1650  | ≤1                        |
| MDC10A30  | MDC10A30S    | 750                 | 1000                | 30                | 60  | 50                              | 197   | 1850  | ≤1                        |

\*Fuse Minimum Breaking Capacity (MBC): the smallest current the fuse has been tested to safely clear at a given voltage and time constant

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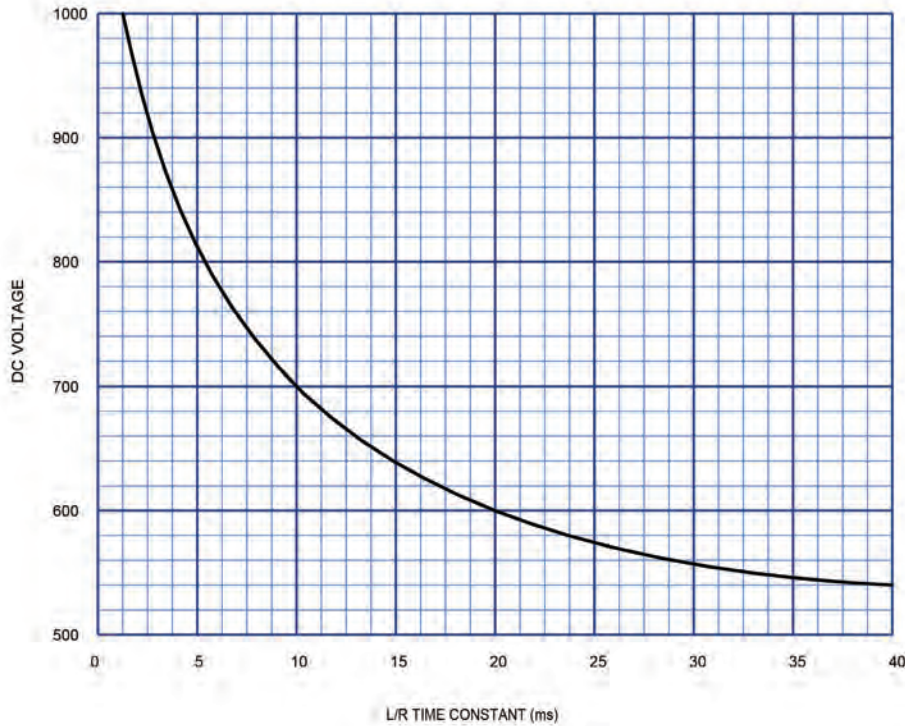
AMPERE RATING VS AMBIENT TEMPERATURE

MDC10A



DC VOLTAGE CAPABILITY VS CIRCUIT L/R TIME CONSTANT (rms)

MDC10A



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# MDC10A - DC Distribution Fuse

1000VDC/750VAC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

I<sup>2</sup>t DATA AT 750VAC, 200KA SYM. RMS  
AMPS, 20% POWER FACTOR

## MDC10A

| Ampere Rating | Melting I <sup>2</sup> t (A <sup>2</sup> s) (calculated) | Clearing I <sup>2</sup> t (A <sup>2</sup> s) |
|---------------|--|--|
| 5             | 5  | 87   |
| 8             | 6.5  | 113  |
| 10            | 10   | 173  |
| 12            | 17   | 295  |
| 15            | 26   | 335  |
| 20            | 41   | 529  |
| 25            | 69   | 891  |
| 30            | 132  | 1705   |

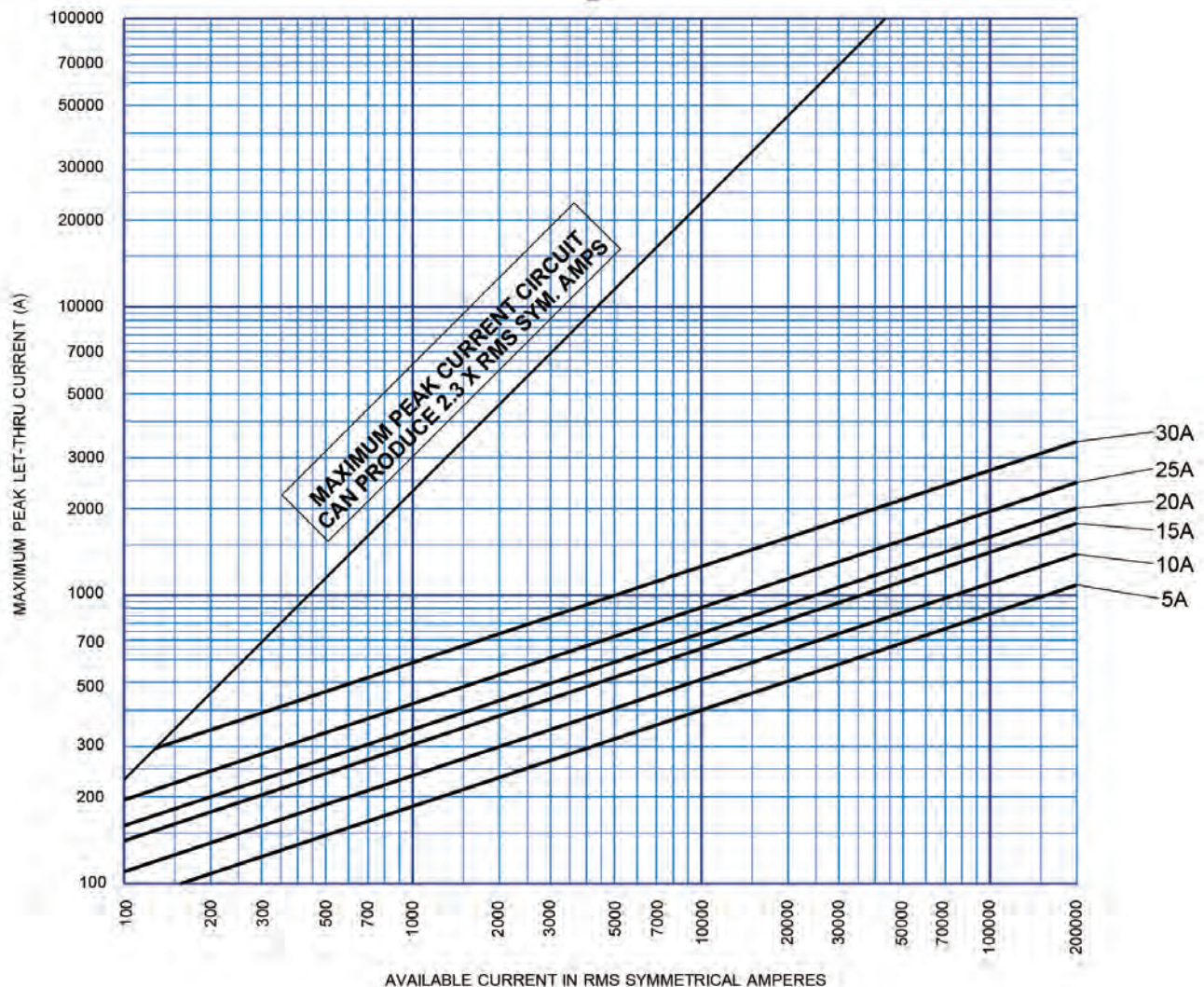
I<sup>2</sup>t DATA AT 1000VAC,  
50KA, L/R = 10MS

## MDC10A

| Ampere Rating | Melting I <sup>2</sup> t (A <sup>2</sup> s) (calculated) | Clearing I <sup>2</sup> t (A <sup>2</sup> s) |
|---------------|--|--|
| 5             | 5  | 64   |
| 8             | 6.5  | 83   |
| 10            | 10   | 127  |
| 12            | 17   | 215  |
| 15            | 26   | 495  |
| 20            | 41   | 755  |
| 25            | 69   | 970  |
| 30            | 132  | 1650   |

## PEAK LET-THRU CURRENT DATA

### MDC10A



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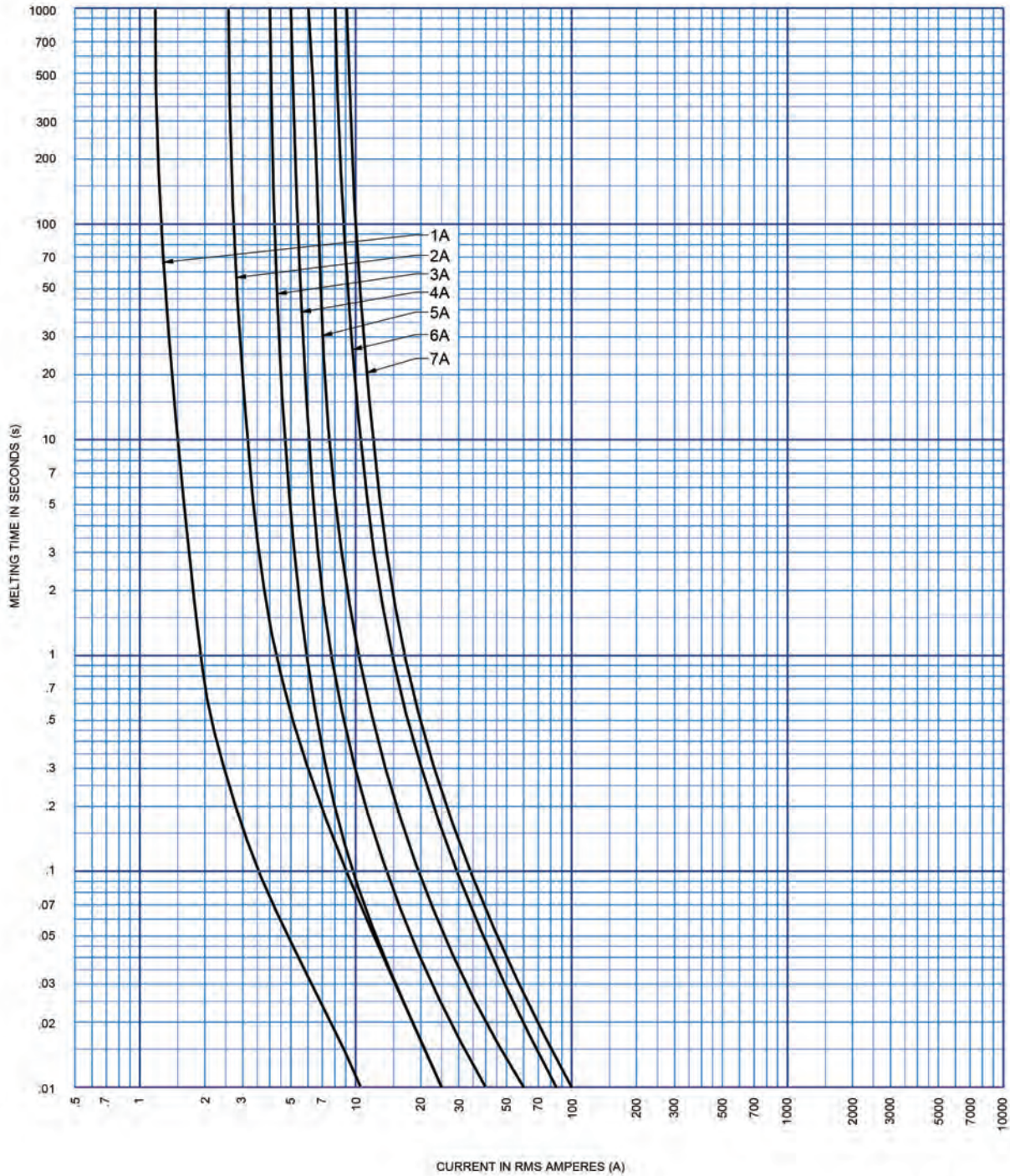
# MDC10A - DC Distribution Fuse

1000VDC/750VAC 10x38mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## MELTING TIME CURRENT DATA

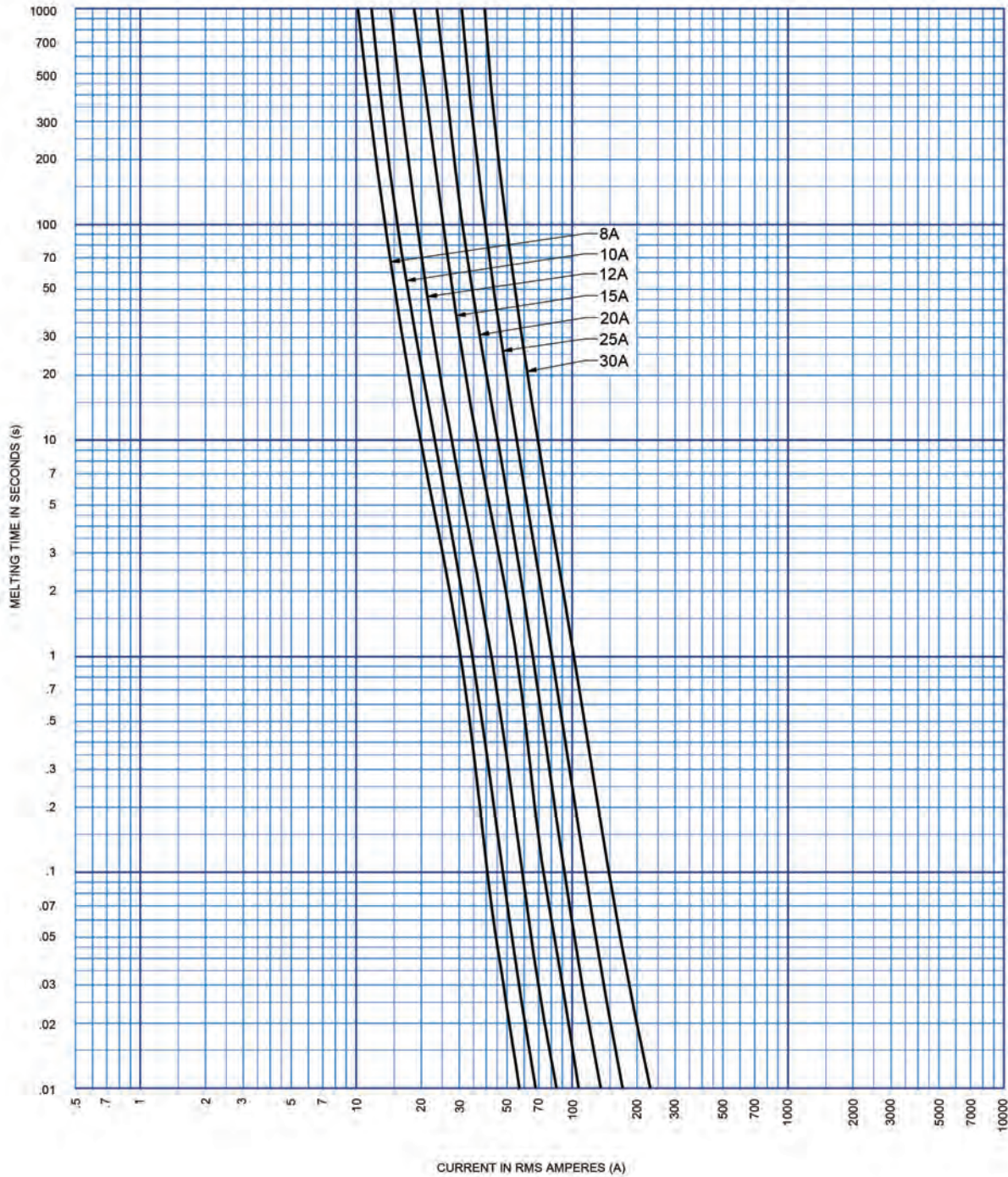
### MDC10A 1-7A



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## MELTING TIME CURRENT DATA

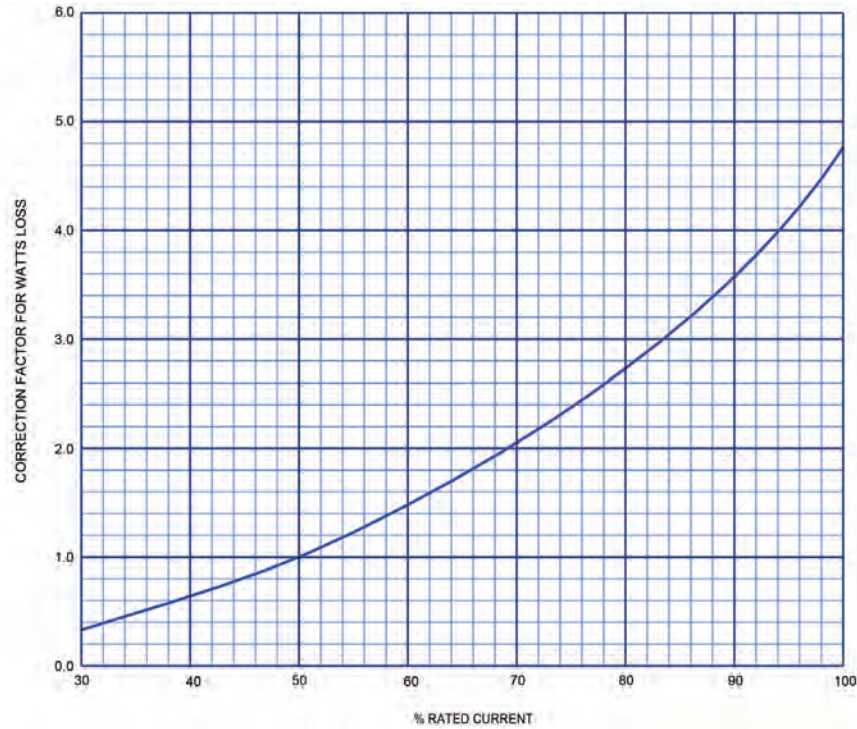
### MDC10A 8-30A



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## WATTS LOSS VS RATED CURRENT

### MDC10A



## WATTS LOSS DATA

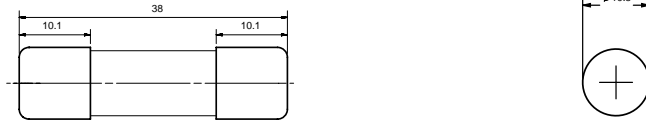
### MDC10A

| Ampere Rating | 70% Amp Rating (W) | 80% Amp Rating (W) | 100% Amp Rating (W) |
|---------------|--------------------|--------------------|---------------------|
| 1             | 0.1                | 0.2                | 0.32                |
| 2             | 0.14               | 0.27               | 0.43                |
| 3             | 0.33               | 0.9                | 1.4                 |
| 4             | 0.4                | 0.8                | 1.3                 |
| 5             | 0.5                | 0.9                | 1.4                 |
| 6             | 0.5                | 1.0                | 1.5                 |
| 7             | 0.6                | 1.1                | 1.5                 |
| 8             | 0.52               | 0.7                | 1.1                 |
| 10            | 0.69               | 0.9                | 1.5                 |
| 12            | 0.71               | 1.3                | 2.0                 |
| 15            | 0.96               | 1.9                | 3.0                 |
| 20            | 1.5                | 2.6                | 4.4                 |
| 25            | 1.8                | 2.9                | 5.3                 |
| 30            | 1.8                | 3.0                | 5.8                 |

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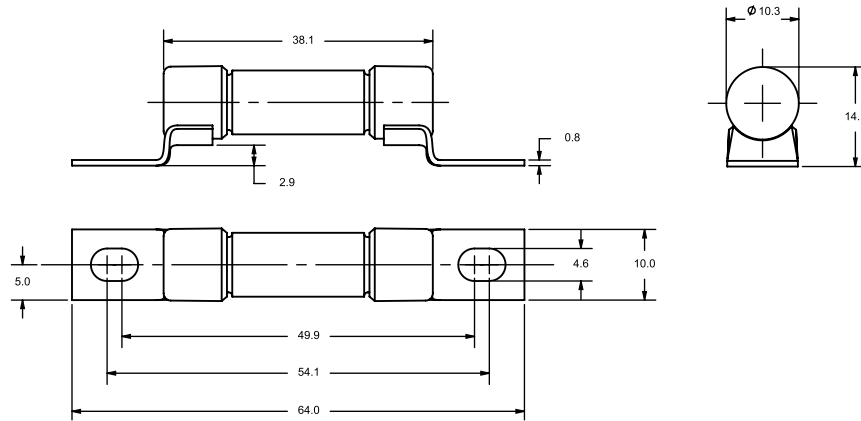
## DIMENSIONS:

### MDC10A(1-30) Ferrule Fuse



Dimensions in mm

### MDC10A(1-30)S Surface Mount Fuse



Dimensions in mm

## Recommended Mounting Torque and Bolt Size

| Fuse Type | Mounting Style     | Fuse Rating | Thread Size | Tightening Torque |        |
|-----------|--------------------|-------------|-------------|-------------------|--------|
|           |                    |             |             | N-m               | In-lbs |
| MDC010A   | Surface Mount (-S) | 1-30A       | 1/4-20      | 5.5               | 50     |

## RECOMMENDED FUSE BLOCKS for midget (10x38mm fuses)

### USM and USFM



| Number of Poles | Catalog Number                    |                 |                          |                      |
|-----------------|-----------------------------------|-----------------|--------------------------|----------------------|
|                 | UltraSafe™ Indicating Fuse Holder | Screw Connector | Pressure Plate Connector | Copper Box Connector |
| Adder           |                                   | 30310           | 30320                    | 30350                |
| 1               | USM1I                             | 30311           | 30321                    | 30351                |
| 2               | USM2I                             | 30312           | 30322                    | 30352                |
| 3               | USM3I                             | 30313           | 30323                    | 30353                |
| 3               | USFM10I                           |                 |                          |                      |

### USGM



| Number of Poles | Catalog Number                        |                                   |   |   |
|-----------------|---------------------------------------|-----------------------------------|---|---|
|                 | UltraSafe™ Non-Indicating Fuse Holder | UltraSafe™ Indicating Fuse Holder | UltraSafe™ Photovoltaic Midget Non-Indicating | UltraSafe™ Photovoltaic Midget Indicating |
| 1               | USGM1                                 | USGM1I, USGM1I-DC24               | USGM1HEL                                      | USGM1IHEL                                 |
| 2               | USGM2                                 | USGM2I                            |   |   |
| 3               | USGM3                                 | USGM3I                            |   |   |
| 4               | USGM4                                 | USGM4I                            |   |   |
| 3 + N           | USGM3N                                | USGM3IN                           |   |   |

## RECOMMENDED FUSE CLIPS



### C08919P

- Fuse Clips 30A - 13/32" mounting hole: .196" dia. - #10



### C08915P

- Fuse Clips 30A - 13/32" mounting hole: .172" dia. - #8



### SDC7

- PC Mount Fuse Clips 30A max - 13/32"

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# MDC10M - DC Distribution Fuse

1000VDC Main Fuse

DC DISTRIBUTION FUSES

FOR DC DISTRIBUTION



With the evolution of DC distribution and new technologies on the horizon, Mersen's MDC DC Distribution Series is the product line to help customers achieve ultimate protection for today and tomorrow. The product portfolio allows system integrators and OEM manufacturers to select fuses easily for the protection of DC distribution in a variety of applications.

The MDC Series incorporates proven fuse technologies which provide optimal current limitation while achieving maximum performance. The MDC portfolio is designed to easily allow customers to choose fuses where coordination with other DC components is critical, eliminating unnecessary downtime.

| Technical Data Overview |  |
|-------------------------|--|
| Volts                   | 1000VDC; 600VAC (70-400A)                  |
| Amps                    | 70A-600A                                   |
| IR                      | 65kA @ 1000VDC<br>200kA @ 600VAC (70-400A) |
| AC MBC                  | 2.0 x In @ 600VAC                          |
| DC MBC                  | 2.0 x In @ 1000VDC                         |

## FEATURES/BENEFITS

- Designed for DC applications
- Low watt losses
- High cycling performance
- Low & high current interrupting capability

## APPLICATIONS

- DC Distribution
- DC Cabling and Bus
- DC Auxiliary Circuits
- Electrical Energy Storage
- EV Charging
- Critical Power
- UPS Protection

## APPROVALS/STANDARDS

- AC Listed E2137 (70-400A)
- DC Listed E333668 (70-600A)







# MDC10M - DC Distribution Fuse

1000VDC Main Fuse

DC DISTRIBUTION  
FUSES

## CATALOG NUMBERS

| Straight Blade, Bolt In   |                     |                     |                   |   |                                 |  |   |                           |
|---|---------------------|---------------------|-------------------|---|---------------------------------|--|---|---------------------------|
|  |                     |                     |                   |  |                                 |  |   |                           |
|  |                     |                     |                   |  |                                 |  |   |                           |
| MDC10M70B   |                     |                     |                   | MDC10M400B  |                                 |  |   |                           |
| Catalog Number  | Rated Voltage (VAC) | Rated Voltage (VDC) | Rated Current (A) | DC Min. Breaking Capacity (MBC)*  | DC Max Interrupting Rating (kA) | Melting I <sup>2</sup> t (kA <sup>2</sup> s) | Clearing I <sup>2</sup> t at 1000VDC, 65kA, L/R = 1ms (kA <sup>2</sup> s) | DC Time Constant L/R (ms) |
| MDC10M70B   | 600                 | 1000                | 70                | 140   | 65                              | 1  | 6   | 0.6                       |
| MDC10M80B   | 600                 | 1000                | 80                | 160   | 65                              | 2  | 10  | 0.6                       |
| MDC10M100B  | 600                 | 1000                | 100               | 200   | 65                              | 3  | 14  | 0.6                       |
| MDC10M125B  | 600                 | 1000                | 125               | 250   | 65                              | 6  | 26  | 0.6                       |
| MDC10M160B  | 600                 | 1000                | 160               | 320   | 65                              | 12   | 50  | 0.6                       |
| MDC10M200B  | 600                 | 1000                | 200               | 400   | 65                              | 15   | 64  | 0.6                       |
| MDC10M250B  | 600                 | 1000                | 250               | 500   | 65                              | 26   | 106   | 0.4                       |
| MDC10M300B  | 600                 | 1000                | 300               | 600   | 65                              | 35   | 141   | 0.4                       |
| MDC10M350B  | 600                 | 1000                | 350               | 700   | 65                              | 46   | 185   | 0.4                       |
| MDC10M400B  | 600                 | 1000                | 400               | 800   | 65                              | 63   | 233   | 0.4                       |
| MDC10M450B  | N/A                 | 1000                | 450               | 900   | 65                              | 96   | 311   | 0.4                       |
| MDC10M500B  | N/A                 | 1000                | 500               | 1000  | 65                              | 141  | 485   | 0.4                       |
| MDC10M600B  | N/A                 | 1000                | 600               | 1200  | 65                              | 171  | 572   | 0.4                       |

\*Fuse Minimum Breaking Capacity (MBC): the smallest current the fuse has been tested to safely clear at a given voltage and time constant

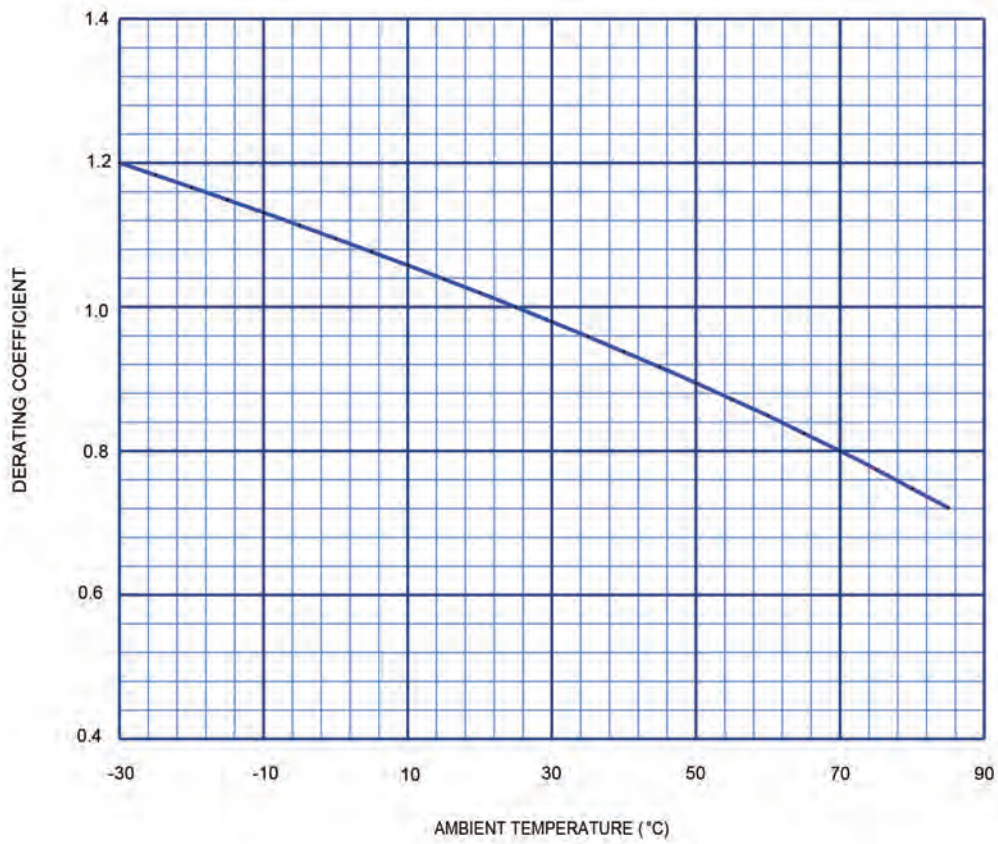
## Recommended Mounting Torque and Bolt Size

| Fuse Type | Mounting Style   | Fuse Rating          | Thread Size      | Tightening Torque |            |
|-----------|------------------|----------------------|------------------|-------------------|------------|
|           |                  |                      |                  | N-m               | In-lbs     |
| MDC010M   | Blade Mount [-4] | 350-400A<br>450-600A | 3/8-24<br>1/2-20 | 20<br>42          | 180<br>375 |

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AMPERE RATING VS AMBIENT TEMPERATURE

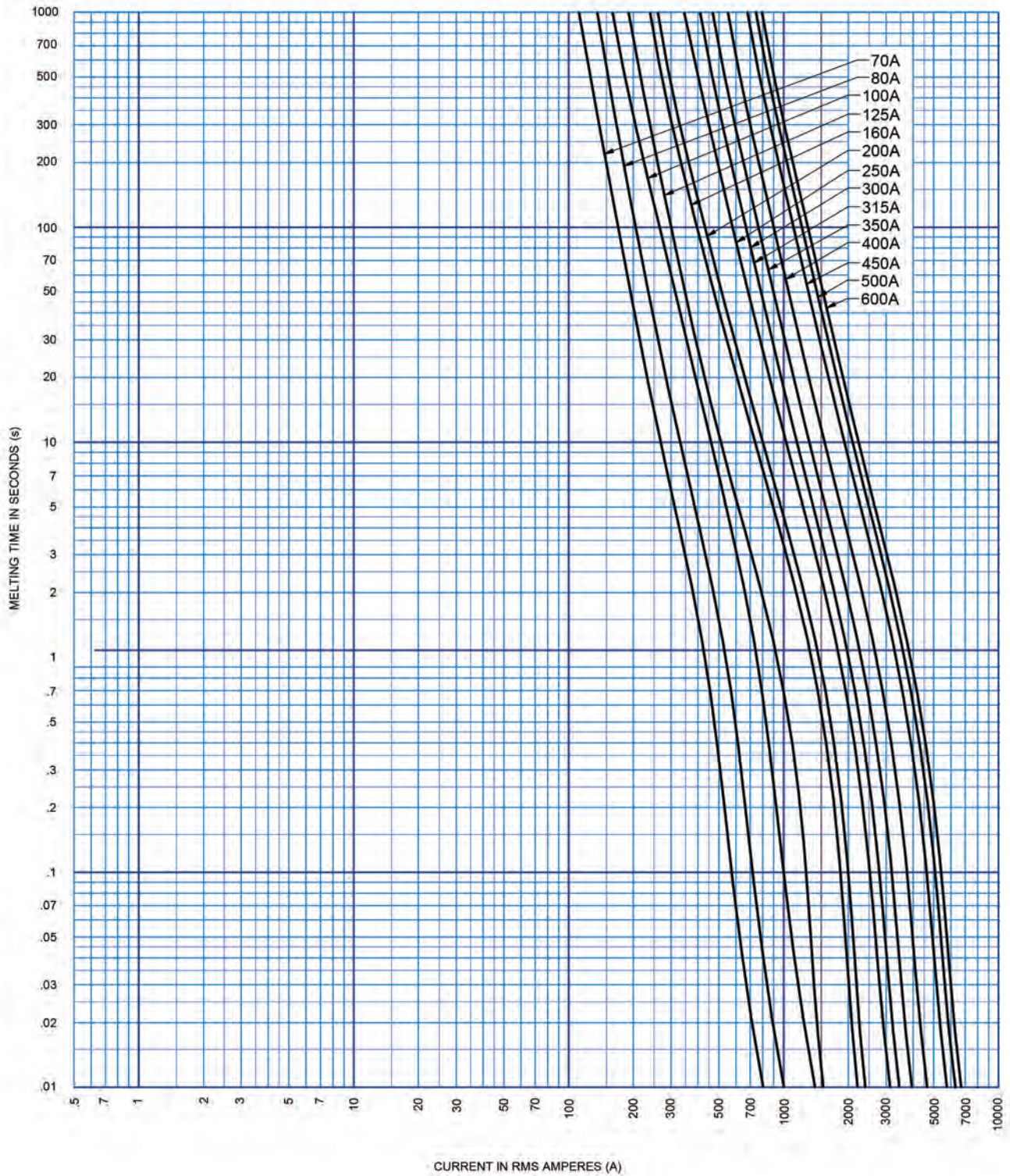
MDC10M



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## AVERAGE MELTING TIME CURRENT CURVE

### MDC10M



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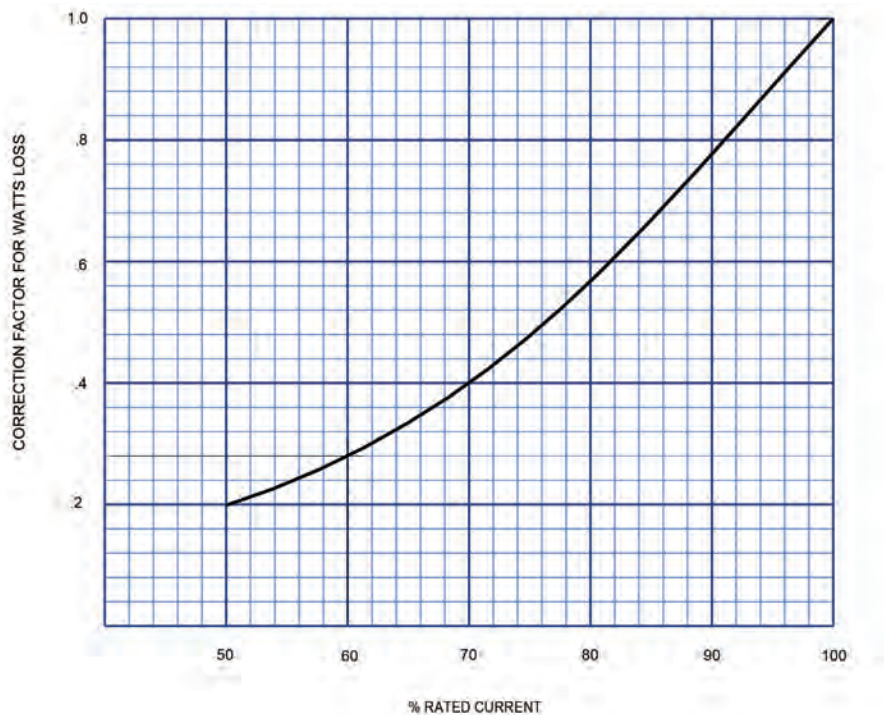
## WATTS LOSS DATA

### MDC10M 70-600A

| Ampere Rating | Watts Loss @70% (W) | Watts Loss @80% (W) | Watts Loss @100% (W) |
|---------------|---------------------|---------------------|----------------------|
| 70            | 3                   | 5                   | 10                   |
| 80            | 4                   | 5                   | 10                   |
| 100           | 6                   | 7                   | 15                   |
| 125           | 5                   | 7                   | 14                   |
| 160           | 6                   | 8                   | 16                   |
| 200           | 10                  | 15                  | 27                   |
| 250           | 13                  | 18                  | 34                   |
| 300           | 16                  | 22                  | 37                   |
| 315           | 16                  | 23                  | 43                   |
| 350           | 17                  | 24                  | 45                   |
| 400           | 19                  | 27                  | 52                   |
| 450           | 22                  | 27                  | 56                   |
| 500           | 22                  | 31                  | 58                   |
| 600           | 30                  | 43                  | 82                   |

## WATTS LOSS VS % RATED CURRENT

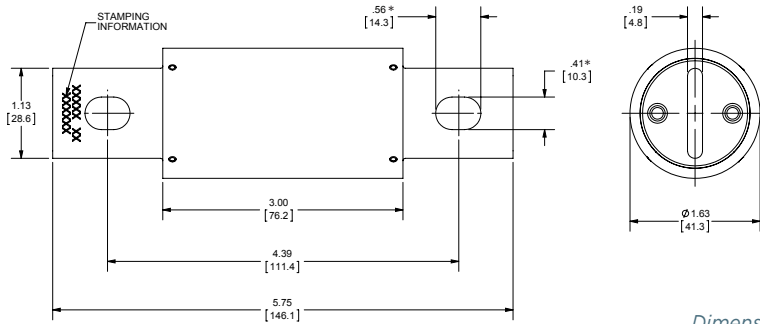
### MDC10M



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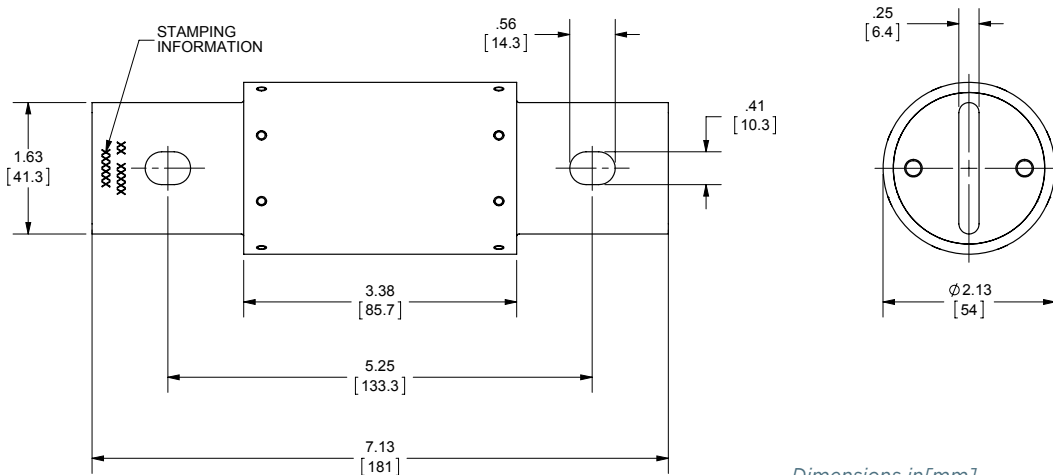
## DIMENSIONS:

### MDC10M(70-200A)B



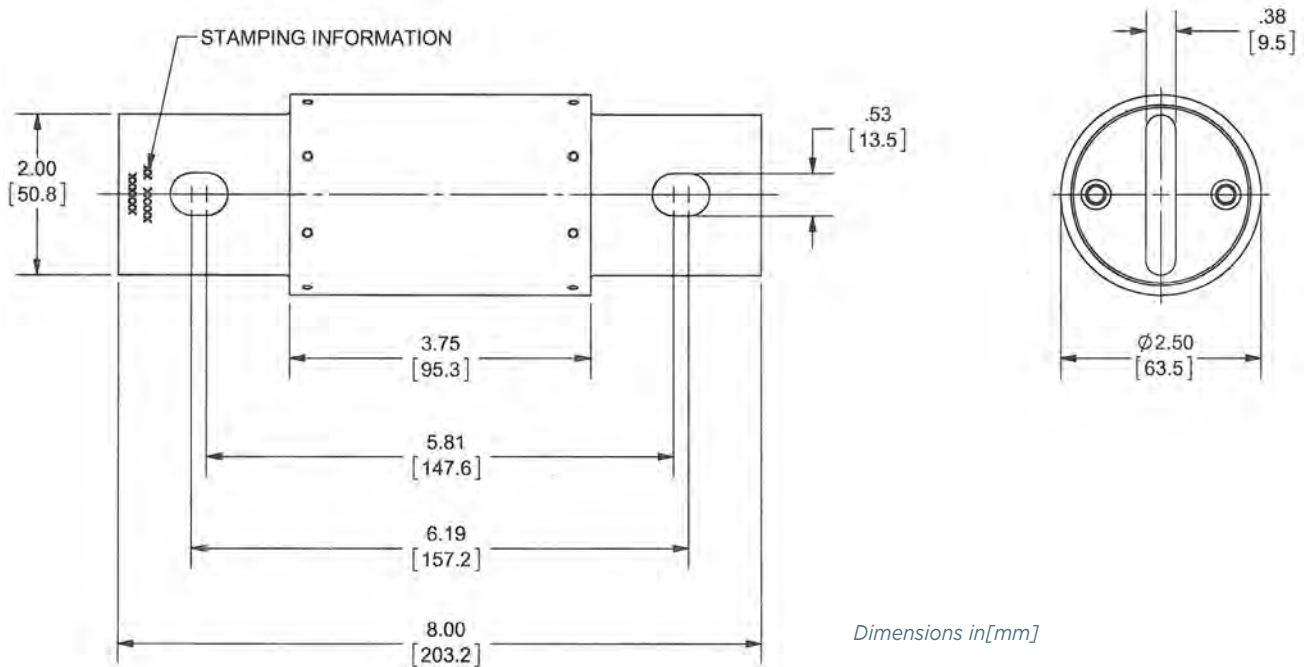
Dimensions in[mm]

### MDC10M(250-400A)B



Dimensions in[mm]

### MDC10M(450-600A)B



Dimensions in[mm]

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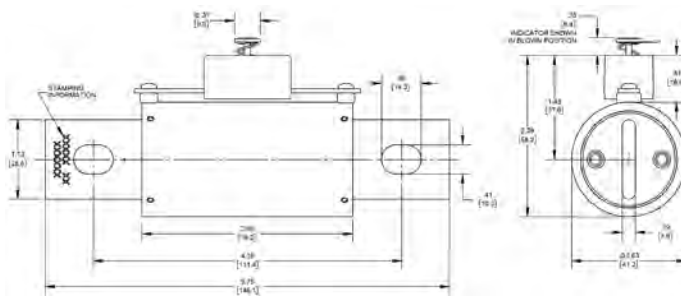
# MDC10M - DC Distribution Fuse

1000VDC Main Fuse

DC DISTRIBUTION  
FUSES

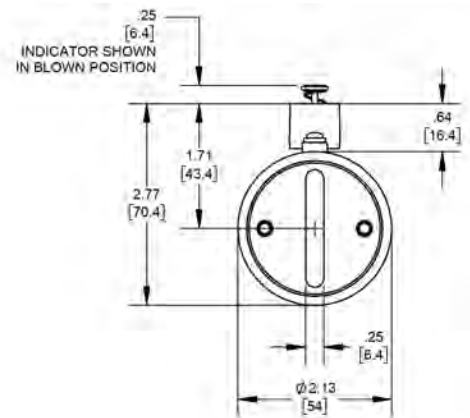
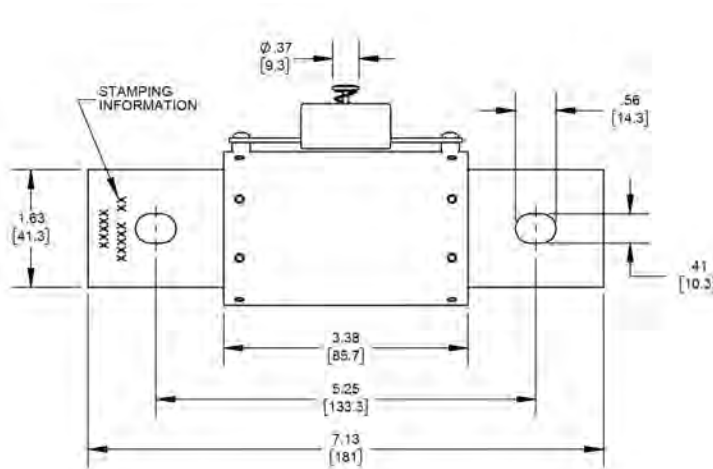
## OPTIONAL INDICATOR/MICROSWITCH MOUNT (EI) DIMENSIONS:

### MDC10M(70-200A)BEI

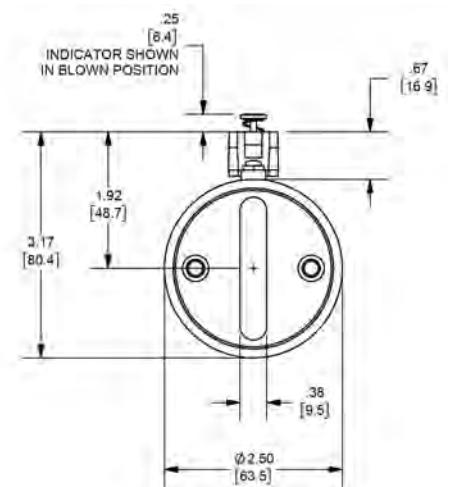
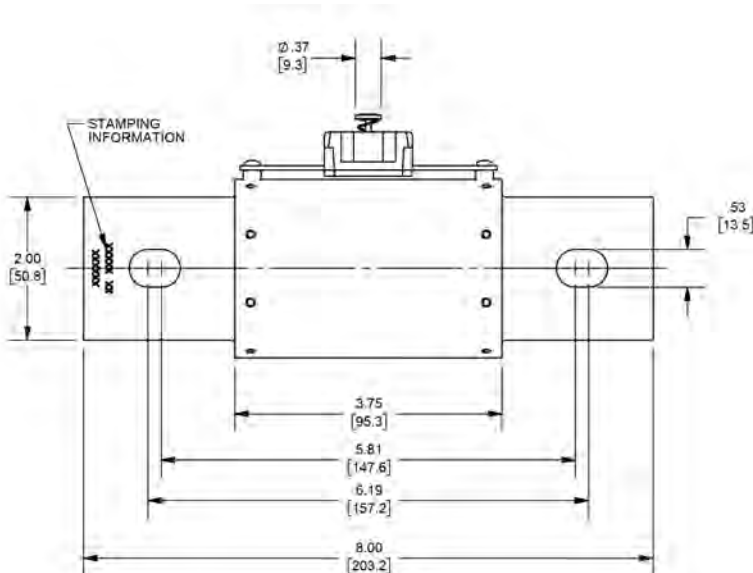


Note: Fuses with the EI option are designed to work with the AOS-S or AOS-Q add-on switch (ordered separately).

### MDC10M(250-400A)BEI



### MDC10M(450-600A)BEI



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# MDC15A - DC Distribution Fuse

1500VDC 10x85mm Auxiliary Fuse

DC DISTRIBUTION FUSES

FOR DC DISTRIBUTION



With the evolution of DC distribution and new technologies on the horizon, Mersen's MDC DC Distribution Series is the product line to help customers achieve ultimate protection for today and tomorrow. The product portfolio allows system integrators and OEM manufacturers to select fuses easily for the protection of DC distribution in a variety of applications.

The MDC Series incorporates proven fuse technologies which provide optimal current limitation while achieving maximum performance. The MDC portfolio is designed to easily allow customers to choose fuses where coordination with other DC components is critical, eliminating unnecessary downtime.

| Technical Data Overview |                                       |
|-------------------------|---------------------------------------|
| Volts                   | 1500VDC                               |
| Amps                    | 4A-32A                                |
| IR                      | 50kA @ 1500VDC                        |
| DC MBC                  | 2.0 x In @ Rated Voltage<br>L/R ≤ 1ms |

## FEATURES/BENEFITS

- Designed for DC applications
- Low watt losses
- High cycling performance
- Low & high current interrupting capability
- Ultra compact size

## APPLICATIONS

- DC Distribution
- DC Cabling and Bus
- DC Auxiliary Circuits
- Electrical Energy Storage
- EV Charging
- Critical Power
- UPS Protection

## APPROVALS/STANDARDS

- UL Listed File E333668







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# MDC15A - DC Distribution Fuse

1500VDC 10x85mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## CATALOG NUMBERS

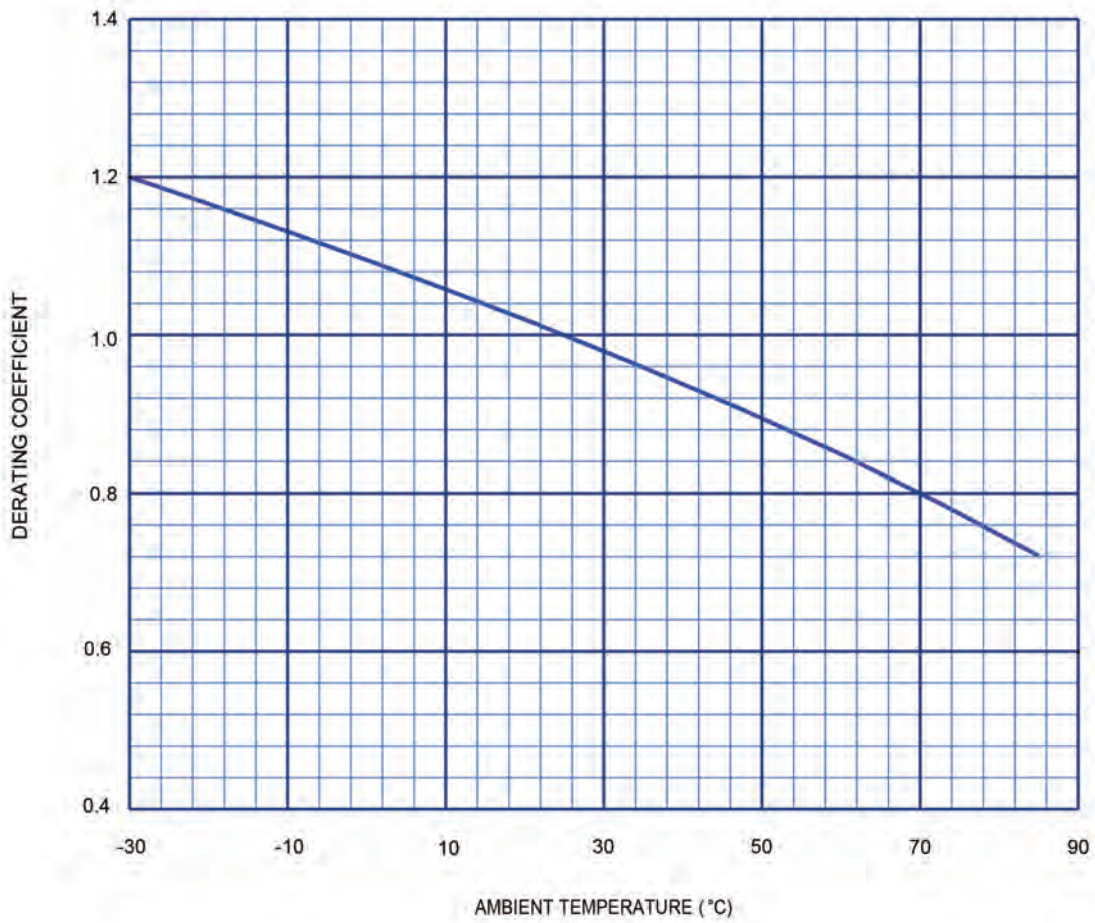
| Ferrule  |           | Surface Mount   |                   |  |                                 |   |   |                           |
|--|-----------|---|-------------------|--|---------------------------------|---|---|---------------------------|
| <br> |           | <br> |                   |  |                                 |   |   |                           |
| MDC15A32   |           | MDC15A32S   |                   |  |                                 |   |   |                           |
| Catalog Number   |           | Rated Voltage (VDC)   | Rated Current (A) | DC Min. Breaking Capacity (MBC) <sup>*</sup> | DC Max Interrupting Rating (kA) | Melting I <sup>2</sup> t (A <sup>2</sup> s) | clearing I <sup>2</sup> t at 1000VDC, 10kA, L/R = 1ms | DC Time Constant L/R (ms) |
| MDC15A4  | MDC15A4S  | 1500  | 4                 | 8  | 50                              | 10  | 30  | ≤1                        |
| MDC15A5  | MDC15A5S  | 1500  | 5                 | 10   | 50                              | 34  | 56  | ≤1                        |
| MDC15A6  | MDC15A6S  | 1500  | 6                 | 12   | 50                              | 52  | 79  | ≤1                        |
| MDC15A7  | MDC15A7S  | 1500  | 7                 | 14   | 50                              | 86  | 16  | ≤1                        |
| MDC15A8  | MDC15A8S  | 1500  | 8                 | 16   | 50                              | 134   | 241   | ≤1                        |
| MDC15A10   | MDC15A10S | 1500  | 10                | 20   | 50                              | 240   | 702   | ≤1                        |
| MDC15A12   | MDC15A12S | 1500  | 12                | 24   | 50                              | 26  | 216   | ≤1                        |
| MDC1515A   | MDC1515AS | 1500  | 15                | 30   | 50                              | 69  | 478   | ≤1                        |
| MDC15A20   | MDC15A20S | 1500  | 20                | 40   | 50                              | 118   | 868   | ≤1                        |
| MDC15A25   | MDC15A25S | 1500  | 25                | 50   | 50                              | 197   | 1371  | ≤1                        |
| MDC15A30   | MDC15A30S | 1500  | 30                | 60   | 50                              | 320   | 1942  | ≤1                        |
| MDC15A32   | MDC15A32S | 1500  | 32                | 64   | 50                              |   |   | ≤1                        |

<sup>\*</sup>Fuse Minimum Breaking Capacity (MBC): the smallest current the fuse has been tested to safely clear at a given voltage and time constant

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## AMPERE RATING VS AMBIENT TEMPERATURE

### MDC15A



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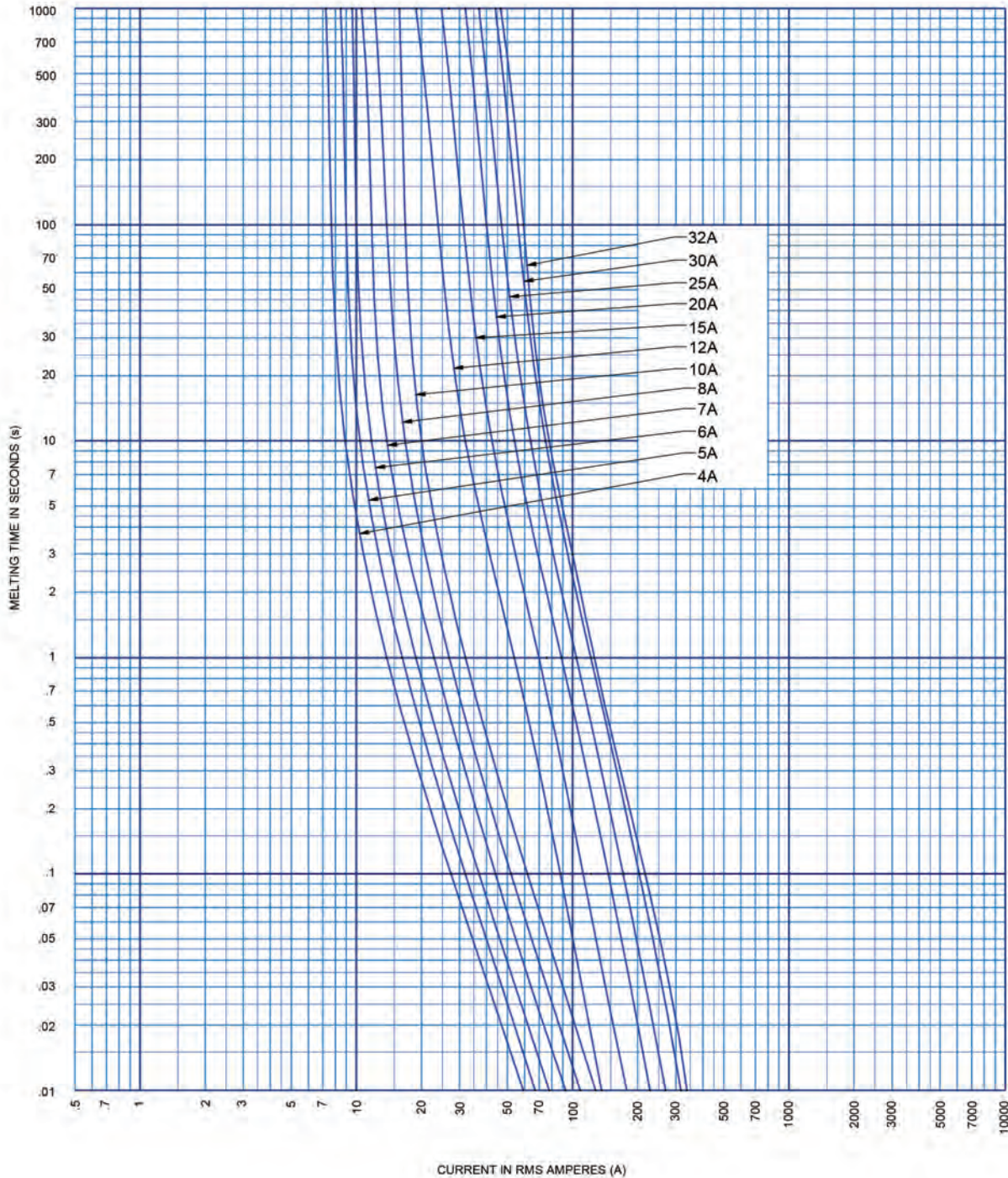
# MDC15A - DC Distribution Fuse

1500VDC 10x85mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## AVERAGE MELTING TIME CURRENT CURVE

### MDC15A



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# MDC15A - DC Distribution Fuse

1500VDC 10x85mm Auxiliary Fuse

DC DISTRIBUTION  
FUSES

## I<sup>2</sup>t DATA @ 1500VDC

### MDC15A

| Ampere Rating | Melting I <sup>2</sup> t (A <sup>2</sup> s)<br>[calculated] | Clearing I <sup>2</sup> t (A <sup>2</sup> s) |
|---------------|---|--|
| 4             | 10  | 30   |
| 5             | 34  | 56   |
| 6             | 52  | 79   |
| 7             | 86  | 160  |
| 8             | 134   | 241  |
| 10            | 240   | 702  |
| 12            | 26  | 216  |
| 15            | 69  | 478  |
| 20            | 118   | 868  |
| 25            | 197   | 1371   |
| 30/32         | 320   | 1942   |

## WATTS LOSS DATA

### MDC15A 12-32A

| Catalog Number | 70% Amp Rating<br>(W) | 80% Amp Rating<br>(W) | 100% Amp Rating<br>(W) |
|----------------|-----------------------|-----------------------|------------------------|
| 12             | 1.30                  | 1.79                  | 3.08                   |
| 15             | 1.30                  | 1.76                  | 2.95                   |
| 20             | 1.77                  | 2.36                  | 4.27                   |
| 25             | 2.21                  | 3.07                  | 5.54                   |
| 30             | 2.63                  | 3.62                  | 6.42                   |
| 32             | 3.18                  | 4.22                  | 7.14                   |

## Recommended Mounting Torque and Bolt Size

| Fuse Type | Mounting Style     | Fuse Rating | Thread Size | Tightening Torque |        |
|-----------|--------------------|-------------|-------------|-------------------|--------|
|           |                    |             |             | N-m               | In-lbs |
| MDC015A   | Surface Mount [-S] | 1-30A       | 1/4-20      | 5.5               | 50     |

## RECOMMENDED FUSE CLIPS



### C08919P

- Fuse Clips 30A - 13/32" mounting hole: .196" dia. - #10



### C08915P

- Fuse Clips 30A - 13/32" mounting hole: .172" dia. - #8



### SDC7

- PC Mount Fuse Clips 30A max - 13/32"

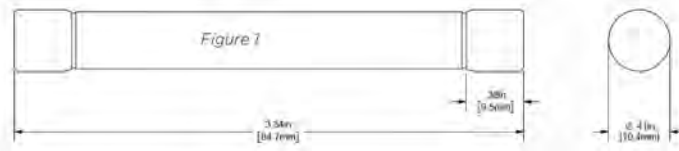
# MDC15A - DC Distribution Fuse

1500VDC 10x85mm Auxiliary Fuse

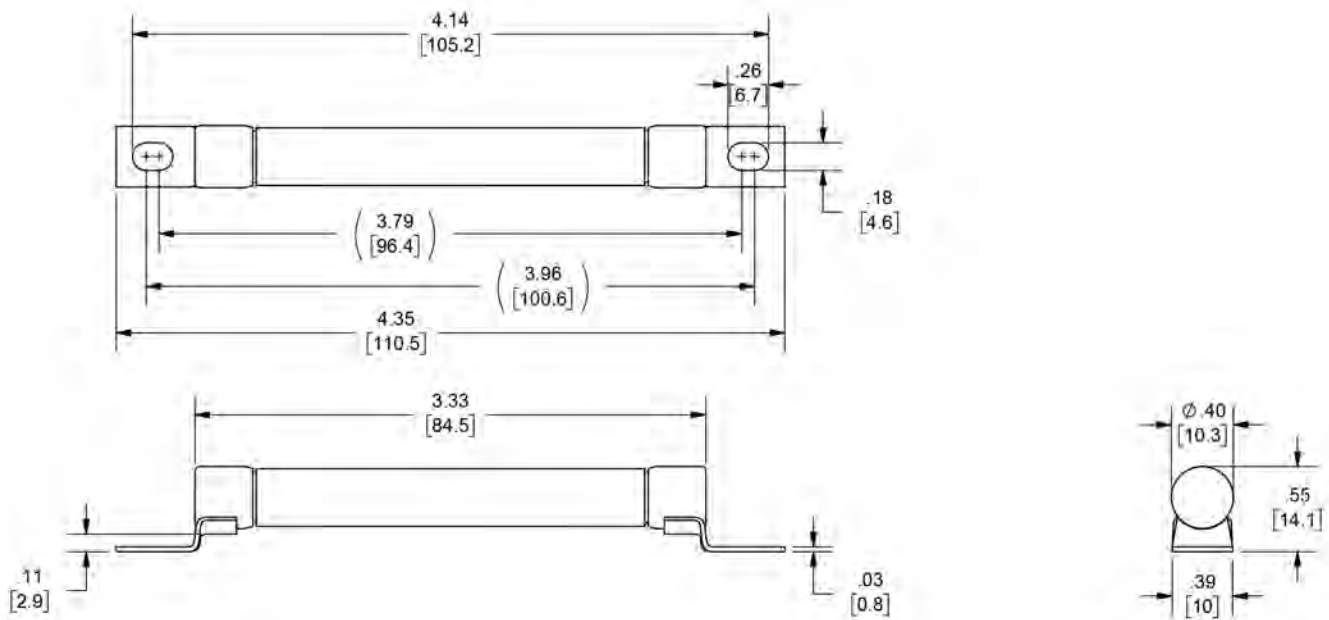
DC DISTRIBUTION  
FUSES

## DIMENSIONS

### MDC15A(4-32A)



### MDC15A(4-32A)S



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# MDC08B

80V DC

DC FUSES

FOR BATTERY MODULE PROTECTION



Mersen's MDC battery module fuse is designed and tested for the protection of battery modules. The MDC08B series provides back-up protection to the battery module during shipping, transportation, and handling of the module.

The MDC08B Series incorporates proven fuse technologies which provides optimal current limitation while achieving maximum performance. The battery module fuse is designed to provide back-up protection while maintaining a slow melting time. It is important for a battery module fuse to have a slower melting time to ensure coordination with upstream fuses can be achieved. This allows battery module manufacturers the ease of mind that the battery is protected during shipping, handling, and transportation and once installed within a system, that the traditional fast-acting upstream fuses will coordinate with the battery.

| Technical Data Overview |                                   |
|-------------------------|-----------------------------------|
| Volts                   | 80VDC                             |
| Amps                    | 35-500A                           |
| IR                      | 10kA @ 80VDC L/R ≤1ms             |
| DC MBC                  | 2.0 x In @ Rated Voltage L/R ≤1ms |

## FEATURES/BENEFITS

- Designed for DC applications
- Low watt losses
- High cycling performance
- Low & high current interrupting capability
- Ultra compact size

## APPLICATIONS

- Battery modules protection
- Stationary DC systems
- Battery systems

## APPROVALS/STANDARDS

- UL Recognized Components (all products) E60314



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**CATALOG NUMBERS**

**Straight Blade Bolt-in**



**MDC08B500B**

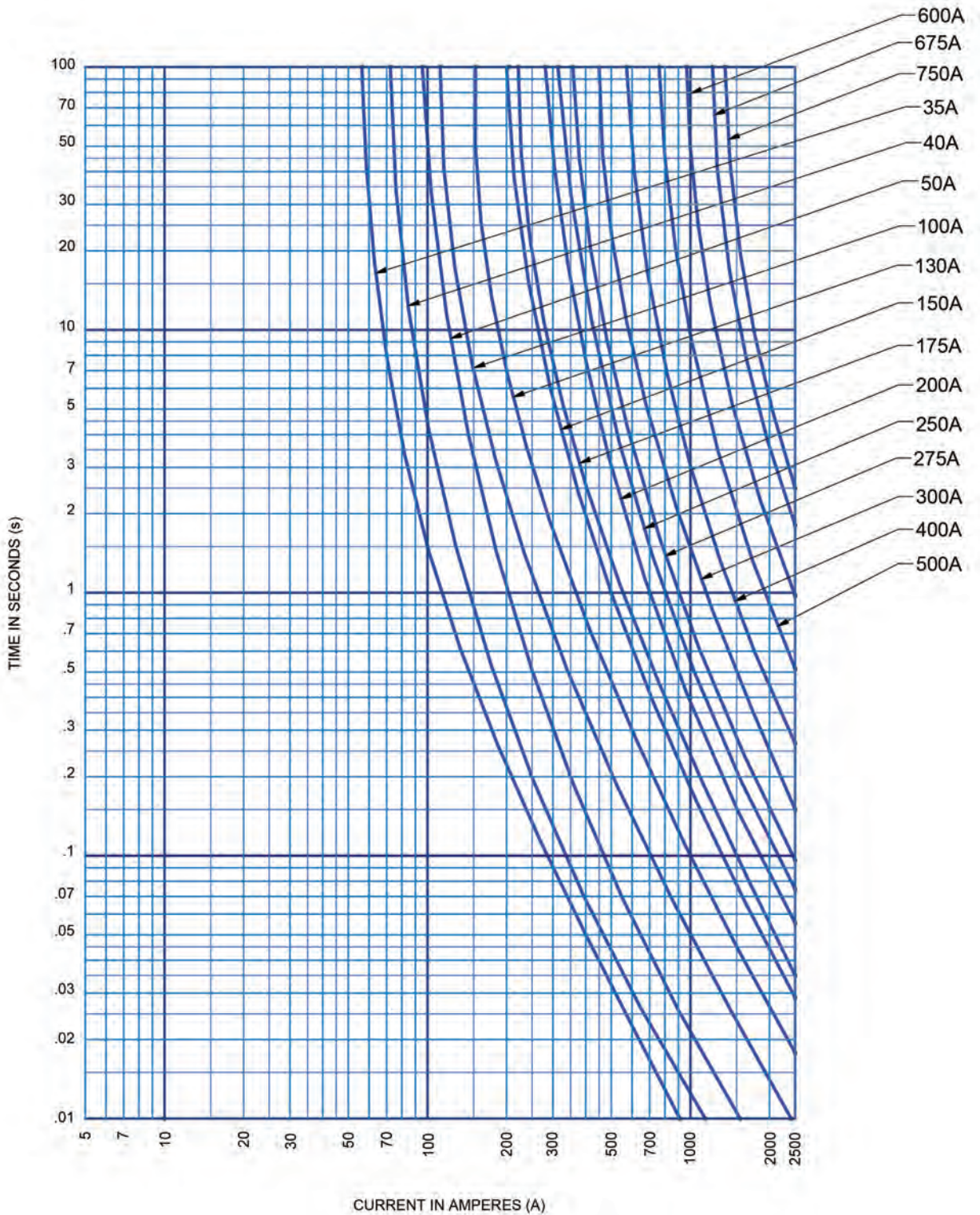
| Catalog Number | Rated Voltage (VDC) | Rated Current (A) | DC Min. Breaking Capacity (MBC)* | DC Max Interrupting Rating (kA) | DC Time Constant L/R (ms) |
|----------------|---------------------|-------------------|----------------------------------|---------------------------------|---------------------------|
| MDC08B35B      | 80                  | 35                | 70                               | 10                              | ≤1                        |
| MDC08B40B      | 80                  | 40                | 80                               | 10                              | ≤1                        |
| MDC08B50B      | 80                  | 50                | 100                              | 10                              | ≤1                        |
| MDC08B60B      | 80                  | 60                | 120                              | 10                              | ≤1                        |
| MDC08B80B      | 80                  | 80                | 160                              | 10                              | ≤1                        |
| MDC08B100B     | 80                  | 100               | 200                              | 10                              | ≤1                        |
| MDC08B125B     | 80                  | 125               | 250                              | 10                              | ≤1                        |
| MDC08B130B     | 80                  | 130               | 260                              | 10                              | ≤1                        |
| MDC08B150B     | 80                  | 150               | 300                              | 10                              | ≤1                        |
| MDC08B175B     | 80                  | 175               | 350                              | 10                              | ≤1                        |
| MDC08B200B     | 80                  | 200               | 400                              | 10                              | ≤1                        |
| MDC08B225B     | 80                  | 225               | 450                              | 10                              | ≤1                        |
| MDC08B250B     | 80                  | 250               | 500                              | 10                              | ≤1                        |
| MDC08B275B     | 80                  | 275               | 550                              | 10                              | ≤1                        |
| MDC08B300B     | 80                  | 300               | 600                              | 10                              | ≤1                        |
| MDC08B325B     | 80                  | 325               | 650                              | 10                              | ≤1                        |
| MDC08B350B     | 80                  | 350               | 700                              | 10                              | ≤1                        |
| MDC08B400B     | 80                  | 400               | 800                              | 10                              | ≤1                        |
| MDC08B500B     | 80                  | 500               | 1000                             | 10                              | ≤1                        |

\*Fuse Minimum Breaking Capacity (MBC): the smallest current the fuse has been tested to safely clear at a given voltage and time constant

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### MELTING TIME CURRENT DATA

#### MDC08B35-500B



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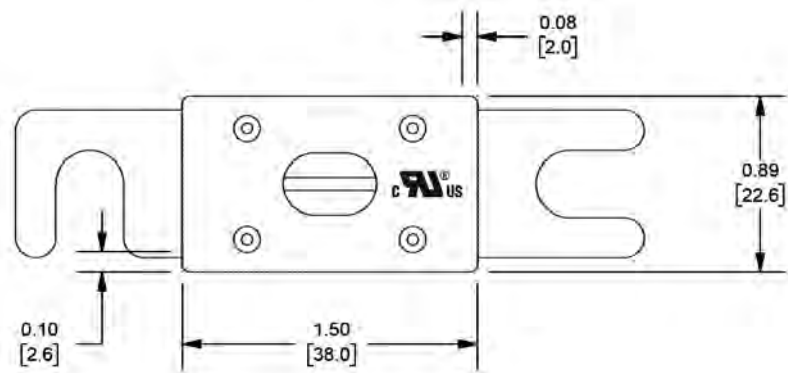
# MDC08B

80V DC Fuse for Battery Module Protection

DC DISTRIBUTION  
FUSES

## DIMENSIONS:

MDC08B35-500B



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# MDC15D - DC Distribution Fuse

1500VDC Auxiliary Fuse

DC DISTRIBUTION FUSES

FOR DC DISTRIBUTION



With the evolution of DC distribution and new technologies on the horizon, Mersen's MDC DC Distribution Series is the product line to help customers achieve ultimate protection for today and tomorrow. The product portfolio allows system integrators and OEM manufacturers to select fuses easily for the protection of DC distribution in a variety of applications.

The MDC Series incorporates proven fuse technologies which provide optimal current limitation while achieving maximum performance. The MDC portfolio is designed to easily allow customers to choose fuses where coordination with other DC components is critical, eliminating unnecessary downtime.

| Technical Data Overview |                                       |
|-------------------------|---------------------------------------|
| Volts                   | 1500VDC                               |
| Amps                    | 35A-65A                               |
| IR                      | 50kA @ 1500VDC                        |
| DC MBC                  | 2.0 x In @ Rated Voltage<br>L/R ≤ 1ms |

## FEATURES/BENEFITS

- Designed for DC applications
- Low watt losses
- High cycling performance
- Low & high current interrupting capability
- Ultra compact size

## APPLICATIONS

- DC Distribution
- DC Cabling and Bus
- DC Auxiliary Circuits
- Electrical Energy Storage
- EV Charging
- Critical Power
- UPS Protection

## APPROVALS/STANDARDS

- UL Recognized File E60314




# MDC15D - DC Distribution Fuse

1500VDC Auxiliary Fuse

DC DISTRIBUTION  
FUSES

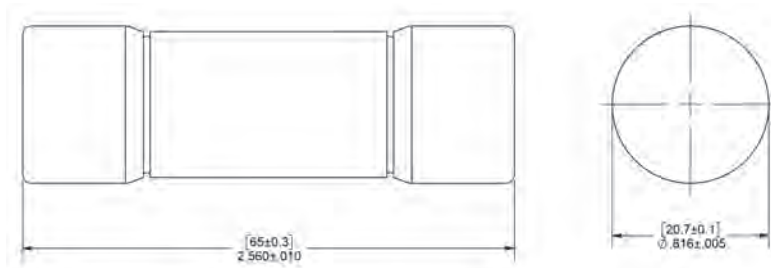
## CATALOG NUMBERS

| Ferrule   |                     |                   |                                  |                                 |   |   |                           |
|---|---------------------|-------------------|----------------------------------|---------------------------------|---|---|---------------------------|
|  |                     |                   |                                  |                                 |   |   |                           |
| MDC15A32  |                     |                   |                                  |                                 |   |   |                           |
| Catalog Number  | Rated Voltage (VDC) | Rated Current (A) | DC Min. Breaking Capacity (MBC)* | DC Max Interrupting Rating [kA] | Melting I <sup>2</sup> t [A <sup>2</sup> s] | Clearing I <sup>2</sup> t at 1000VDC, 10kA, L/R = 1ms | DC Time Constant L/R (ms) |
| MDC15D35  | 1500                | 35                | 70                               | 50                              | 320   | 3300  | ≤1                        |
| MDC15D40  | 1500                | 40                | 80                               | 50                              | 528   | 3500  | ≤1                        |
| MDC15D45  | 1500                | 45                | 90                               | 50                              | 789   | 3500  | ≤1                        |
| MDC15D50  | 1500                | 50                | 100                              | 50                              | 1019  | 4900  | ≤1                        |
| MDC15D55  | 1500                | 55                | 110                              | 50                              | 1279  | 600   | ≤1                        |
| MDC15D60  | 1500                | 60                | 120                              | 50                              | 1670  | 6500  | ≤1                        |
| MDC15D65  | 1500                | 65                | 130                              | 50                              | 1670  | 6500  | ≤1                        |

\*Fuse Minimum Breaking Capacity (MBC): the smallest current the fuse has been tested to safely clear at a given voltage and time constant

## DIMENSIONS

### MDC15D(35-65A)



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# MDC15FH65

Fuse Holders for DC Applications

FUSE BLOCKS & HOLDERS

UP TO 65A FOR USE IN HIGHER AMPERAGE DC SYSTEMS



**MDC**  
DC Distribution Series

Mersen's MDC 1500VDC fuse holders for 20x65mm fuses provide advanced safety and protection for high-amperage utility-scale DC distribution applications. These MDC15FH65 fuse holders are IP20-rated for finger-safe operation and feature a rotating fuse carrier, similar to the Mersen UltraSafe® line, ensuring safe and easy fuse replacement.

The MDC15FH65 series is designed for use with the MDC DC Distribution Series fuses, which provide superior current limitation and coordination with other DC components. These fuse holders help maximize system performance and reduce downtime.

#### Technical Data Overview

|                                     |                  |
|-------------------------------------|------------------|
| Volts                               | 1500VDC Maximum  |
| Amps                                | 65A Maximum      |
| Short-Circuit Current Rating (SCCR) | 50kA DC          |
| Operating Temperature               | -40 to +125°C    |
| Required terminal torque            | 22 in-lbs/2.5N-m |

#### FEATURES/BENEFITS

- Designed for DC applications
- Accepts Mersen MDC15D 20x65mm fuses
- Terminations: Wire/Wire
- IP20 rated (finger safe)
- DIN Rail Mounting
- Lock Out/Tag Out feature

#### APPLICATIONS

- DC Distribution
- DC Cabling and Bus
- DC Auxiliary Circuits
- Electrical Energy Storage
- EV Charging
- Critical Power
- UPS Protection

#### APPROVALS/STANDARDS

- UL Recognized Component, evaluated to UL 4248-1
- UKCA



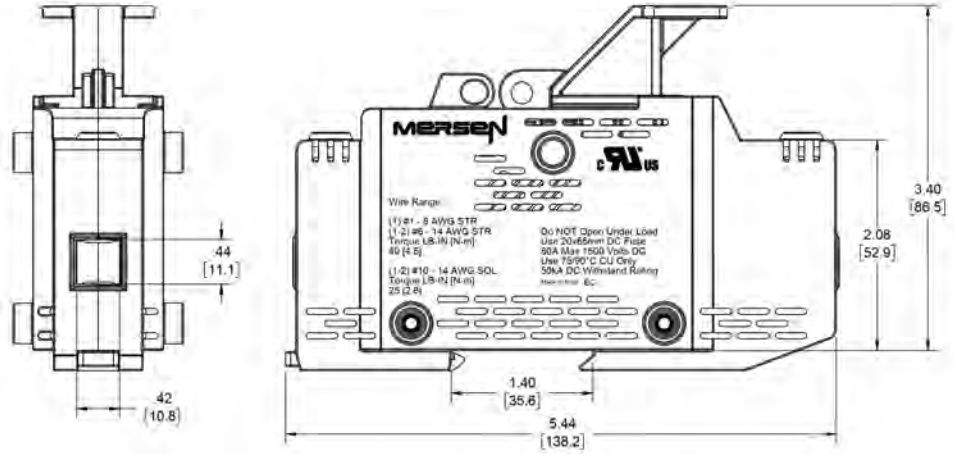
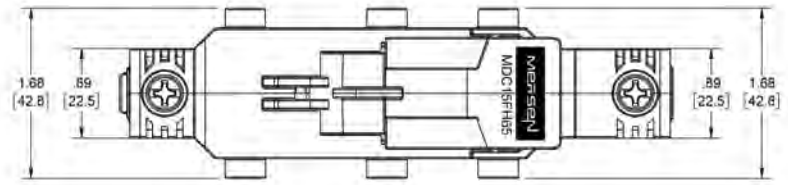
# MDC15FH65

Fuse Holders for PV Applications

DC DISTRIBUTION  
FUSES

## DIMENSIONS (MM):

### MDC15FH65



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