

# Molded Case Circuit Breakers

## MD 800A Frame Sentron Series

### Selection/Dimensions

#### Type MXD6<sup>①⑦</sup>

Blue Label

| Non-Interchangeable Trip (Assembled Circuit Breaker Without Lugs) |                     |               |                |               |
|---|---------------------|---------------|----------------|---------------|
| Continuous Current Rating @ 40°C                                  | 2-Pole <sup>②</sup> |               | 3-Pole         |               |
|   | Catalog Number      | List Price \$ | Catalog Number | List Price \$ |
| 500   | MXD62B500■          | 5582.00       | MXD63B500■     | 7067.00       |
| 600   | MXD62B600■          | 5582.00       | MXD63B600■     | 7067.00       |
| 700   | MXD62B700■          | 5582.00       | MXD63B700■     | 7067.00       |
| 800   | MXD62B800■          | 5582.00       | MXD63B800■     | 7067.00       |

#### Type MD6<sup>⑦</sup>

Blue Label

| Interchangeable Trip              |  |               |                |               |                |               |
|-----------------------------------|--|---------------|----------------|---------------|----------------|---------------|
| Continuous Current Setting @ 40°C | Complete Breaker Unassembled with Lugs |               | Frame Only     |               | Trip Unit Only |               |
|                                   | Catalog Number                         | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| 500                               | MD62B500■                              | 5928.00       | MD62F800■      | 2909.00       | MD62T500■      | 2671.00       |
| 600                               | MD62B600■                              | 5928.00       |                |               | MD62T600■      | 2671.00       |
| 700                               | MD62B700■                              | 5928.00       |                |               | MD62T700■      | 2671.00       |
| 800                               | MD62B800■                              | 5928.00       |                |               | MD62T800■      | 2671.00       |

#### 2-Pole 600V AC, 250V DC<sup>②</sup>

|     |           |         |           |         |           |         |
|-----|-----------|---------|-----------|---------|-----------|---------|
| 500 | MD62B500■ | 5928.00 | MD62F800■ | 2909.00 | MD62T500■ | 2671.00 |
| 600 | MD62B600■ | 5928.00 |           |         | MD62T600■ | 2671.00 |
| 700 | MD62B700■ | 5928.00 |           |         | MD62T700■ | 2671.00 |
| 800 | MD62B800■ | 5928.00 |           |         | MD62T800■ | 2671.00 |

#### 3-Pole 600V AC, 500V DC<sup>④</sup>

|     |          |         |          |         |          |         |
|-----|----------|---------|----------|---------|----------|---------|
| 500 | MD63B500 | 7589.00 | MD63F800 | 3716.00 | MD63T500 | 3351.00 |
| 600 | MD63B600 | 7589.00 |          |         | MD63T600 | 3351.00 |
| 700 | MD63B700 | 7589.00 |          |         | MD63T700 | 3351.00 |
| 800 | MD63B800 | 7589.00 |          |         | MD63T800 | 3351.00 |

#### Lugs<sup>⑤</sup>

| Catalog Number | Cables Per Lug | Lugs Per Kit | Wire Range          | List Price \$ |
|----------------|----------------|--------------|---------------------|---------------|
| TA2K500        | 1-2            | 1            | #1-500 kcmil Cu/Al  | 64.00         |
| TA3K500        | 1-3            | 1            | 1/0-500 kcmil Cu/Al | 87.00         |
| TC2K500        | 1-2            | 1            | #1-500 kcmil Cu     | 107.00        |
| TC3K350        | 1-3            | 1            | #1-350 kcmil Cu     | 135.00        |
| Kits           |                |              |                     |               |
| 2TA2N8750      | 1-2            | 2            | 500-750 kcmil Cu/Al | 327.00        |
| 3TA2N8750      |                | 3            |                     | 459.00        |
| 2TA3N8750      | 1-3            | 2            | 500-750 kcmil Cu/Al | 517.00        |
| 3TA3N8750      |                | 3            |                     | 744.00        |
| 2TA4N8500      | 1-4            | 2            | 250-500 kcmil Cu/Al | 526.00        |
| 3TA4N8500      |                | 3            |                     | 762.00        |
| 2TA4P8500      | 1-4            | 2            | 250-500 kcmil Cu/Al | 522.00        |
| 3TA4P8500      |                | 3            |                     | 754.00        |

#### Instantaneous Adjustment Trip Range

| Ampere Rating | Nominal Instantaneous Values |      |      |      |      |      |      |                        |
|---------------|------------------------------|------|------|------|------|------|------|------------------------|
|               | Low +/- 20% Tolerance        | 2    | 3    | 4    | 5    | 6    | 7    | High +/- 20% Tolerance |
| 500-600       | 3000                         | 3430 | 3860 | 4280 | 4710 | 5140 | 5570 | 6000                   |
| 700-800       | 4000                         | 4570 | 5140 | 5710 | 6280 | 6850 | 7420 | 8000                   |

■ Built to order. Allow 2-3 weeks for delivery.

①MXD6 circuit breakers are UL Listed for reverse connection applications.

②2-pole units available in 3-pole width only.

③Use 6 connectors for 3-pole, use 4 connectors for 2-pole.

④When wired as shown on page 17/3, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems.

⑤ See Note: A, page 17/67.

⑥80% rated breakers with the CE mark will also be marked in the 100% rated version.

⑦ HACR rated.

Note: MD frame qualified to UL489 supplement B "NAVAL". See page 17/70 for additional information.

#### Ordering Information

##### Complete Breaker Unassembled with Lugs

Pricing information for MD6 and HMD6 breakers includes frame, trip, and both line and load lugs (TA3K500). When ordered by these catalog numbers, the customer will receive the frame, trip and lugs separately packaged. For applications requiring different lugs, order individual items as needed.

##### Complete Breaker Assembled without Lugs

Prices of MXD6, HMXD6 and CMD6 include frame with non-interchangeable trip units installed only. Order required lugs separately. For line and load lugs (TA3K500) installed, add suffix "L" to catalog number (add 2 times list price of lugs for each pole).

##### 100% Rated<sup>⑥</sup>

Types MXD6, HMXD6 and CMD6 breakers are available with 100% ratings. To order add suffix "H" to catalog number, and 10% to list price. 100% rated MD breakers require the use of 90°C Cu cable and lugs 2TA4P8500 or 2TA2N8750 for 2-pole; 3TA4P8500 or 3TA2N8750 for 3-pole.

50°C Applications see page 17/70.

400Hz Applications see page 17/70.

#### Shipping Weights

| Number of Poles  | Number per Carton | Shipping Weight (lbs.) |
|--|-------------------|------------------------|
| <b>MD6, HMD6, HMXD6, CMD6 Complete Breaker Assembled (less lugs)</b> |                   |                        |
| 2  | 1                 | 53                     |
| 3  | 1                 | 61.5                   |
| <b>MD6, HMD6 Frame Only</b>  |                   |                        |
| 2  | 1                 | 42.25                  |
| 3  | 1                 | 46                     |
| <b>MD6, HMD6 Trip Unit Only</b>                                      |                   |                        |
| 2  | 1                 | 4.5                    |
| 3  | 1                 | 6.5                    |

#### Enclosures

| Type    | Catalog Number | List Price \$ |
|---------|----------------|---------------|
| 1       | MND61          | 802.00        |
| 3R      | MND63          | 1969.00       |
| 12      | MND612■        | 2578.00       |
| Neutral | W63623         | 491.00        |

Modifications page 17/70

Accessories pages 17/40 and 17/71 to 17/77

# Molded Case Circuit Breakers

## MD 800A Frame Sentron Series

### Selection

#### Type HMXD6 ①⑤

Black Label

| Non-Interchangeable Trip (Assembled Circuit Breaker Without Lugs) |  |  |                           |               |
|---|--|--|---------------------------|---------------|
| Continuous Current Rating @ 40°C                                  | 2-Pole 600V AC<br>250V DC  |  | 3-Pole 600V AC<br>500V DC |               |
|   |  |  | Catalog Number            | List Price \$ |
| 500   | For 2-pole application use outside poles of 3-pole circuit breaker |  | HMXD63B500■               | 8555.00       |
| 600   |  |  | HMXD63B600■               | 8555.00       |
| 700   |  |  | HMXD63B700■               | 8555.00       |
| 800   |  |  | HMXD63B800■               | 8555.00       |

#### Type HMD6 ⑤

Black Label

| Interchangeable Trip             |  |               |                |               |                |               |
|----------------------------------|--|---------------|----------------|---------------|----------------|---------------|
| Continuous Current Rating @ 40°C | Complete Breaker Unassembled with Lugs |               | Frame Only     |               | Trip Unit Only |               |
|                                  | Catalog Number                         | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |

#### 2-Pole 600V AC, 250V DC ②

| Continuous Current Rating @ 40°C | Catalog Number | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
|----------------------------------|----------------|---------------|----------------|---------------|----------------|---------------|
| 500                              | HMD62B500■     | 7066.00       | HMD62F800■     | 4047.00       | MD62T500■      | 2671.00       |
| 600                              | HMD62B600■     | 7066.00       |                |               | MD62T600■      | 2671.00       |
| 700                              | HMD62B700■     | 7066.00       |                |               | MD62T700■      | 2671.00       |
| 800                              | HMD62B800■     | 7066.00       |                |               | MD62T800■      | 2671.00       |

#### 3-Pole 600V AC, 500V DC ④

| Continuous Current Rating @ 40°C | Catalog Number | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
|----------------------------------|----------------|---------------|----------------|---------------|----------------|---------------|
| 500                              | HMD63B500      | 9077.00       | HMD63F800      | 5204.00       | MD63T500       | 3351.00       |
| 600                              | HMD63B600      | 9077.00       |                |               | MD63T600       | 3351.00       |
| 700                              | HMD63B700      | 9077.00       |                |               | MD63T700       | 3351.00       |
| 800                              | HMD63B800      | 9077.00       |                |               | MD63T800       | 3351.00       |

#### Type CMD6 ①⑤

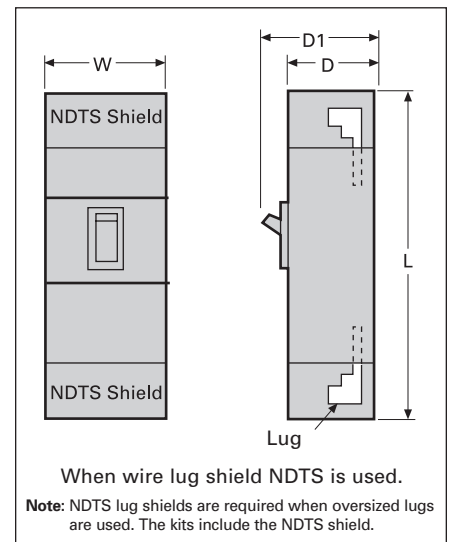
#### Fuseless Current Limiting

Red Label

| Non-Interchangeable Trip (Assembled Circuit Breaker Without Lugs) |  |  |                           |               |
|---|--|--|---------------------------|---------------|
| Continuous Current Rating @ 40°C                                  | 2-Pole<br>600V AC/250V DC  |  | 3-Pole<br>600V AC/500V DC |               |
|   |  |  | Catalog Number            | List Price \$ |
| 500   | For 2-pole application use outside poles of 3-pole circuit breaker |  | CMD63B500■                | 12599.00      |
| 600   |  |  | CMD63B600■                | 12599.00      |
| 700   |  |  | CMD63B700■                | 12599.00      |
| 800   |  |  | CMD63B800■                | 12599.00      |

#### Interrupting Ratings

| Breaker Type | UL 489 AIR—File E10848       |     |     |          |                  | IEC 947-2 AIR      |       |         |       |       |       |
|--------------|------------------------------|-----|-----|----------|------------------|--------------------|-------|---------|-------|-------|-------|
|              | RMS Symmetrical Amperes (KA) |     |     |          |                  | Volts AC (50/60HZ) |       |         |       |       |       |
|              | Volts AC                     |     |     | Volts DC |                  | 220/240            |       | 380/415 |       | 500   |       |
|              | 240                          | 480 | 600 | 250      | 500 <sup>③</sup> | (Icu)              | (Ics) | (Icu)   | (Ics) | (Icu) | (Ics) |
| MD6, MXD6    | 65                           | 50  | 25  | 30 (2-P) | 25 (3-P)         | 65                 | 33    | 40      | 20    | 30    | 15    |
| HMD6, HMXD6  | 100                          | 65  | 50  | 30 (2-P) | 50 (3-P)         | 100                | 50    | 65      | 33    | 42    | 21    |
| CMD6         | 200                          | 100 | 65  | —        | 50 (3-P)         | 200                | 100   | 100     | 50    | 65    | 33    |



#### Dimensions (in inches)

| Breaker Type   | W | L  | D | (To Handle) D1 |
|--|---|----|---|----------------|
| MD6, MXD6, HMD6, HMXD6, CMD6, MXD6-ETI, CMD6-ETI, SMD6, SHMD6, and SCMD6 | 9 | 16 | 6 | 8.25           |
| with lug shields   | 9 | 24 | 6 | 8.25           |

For inches / millimeters conversion, see Application Data section.

■ Built to order. Allow 2–3 weeks for delivery.

① HMXD6 and CMD circuit breakers are UL listed for reverse connection applications.

② 2-pole units available in 3-pole width only.

③ MXD6-ETI, CMD6-ETI see page 17/52 for catalog information.

④ When wired as shown on page 17/3, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

⑤ HACR rated.