

Sentron Molded Case Circuit Breakers

MD 800A Frame, Sentron Series

Selection

Type MXD6^{①②}

Blue Label

Non-Interchangeable Trip (Assembled Circuit Breaker Without Lugs)				
Continuous Current Rating @ 40°C	2-Pole ^②		3-Pole	
	Catalog Number	List Price \$	Catalog Number	List Price \$
600	MXD62B600■		MXD63B600	
700	MXD62B700■		MXD63B700	
800	MXD62B800■		MXD63B800	

Type MD6^③

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 \$

2-Pole 600V AC, 250V DC^②

500	MD62B500■				MD62T500■	
600	MD62B600■		MD62F800■		MD62T600■	
700	MD62B700■				MD62T700■	
800	MD62B800■				MD62T800■	

3-Pole 600V AC, 500V DC^③

500	MD63B500				MD63T500	
600	MD63B600		MD63F800		MD63T600	
700	MD63B700				MD63T700	
800	MD63B800				MD63T800	

Lugs^④

Catalog Number	Cables Per Lug	Lugs Per Kit	Wire Range	List Price \$
TA2K500	1-2	1	#1-500 kcmil Cu/Al	
TA3K500	1-3	1	1/0-500 kcmil Cu/Al	
TC2K500	1-2	1	#1-500 kcmil Cu	
TC3K350	1-3	1	#1-350 kcmil Cu	
Kits				
2TA2N8750 3TA2N8750	1-2	2 3	500-750 kcmil Cu/Al	
2TA3N8750 3TA3N8750	1-3	2 3	500-750 kcmil Cu/Al	
2TA4N8500 3TA4N8500	1-4	2 3	250-500 kcmil Cu/Al	
2TA4P8500 3TA4P8500	1-4	2 3	250-500 kcmil Cu/Al	

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.

③ When wired as shown on page 17/5, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems.

④ See **Note: A**, page 17/100.

⑤ 80% rated breakers with the CE mark will also be marked in the 100% rated version.

⑥ HACR rated.

Note: MD frame qualified to UL489 supplement B "NAVAL". See page 17/110 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 with 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^⑤

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 sized at 75°C ampacity and lugs 2TA4P8500 or 2TA2N8750 for 2-pole; 3TA4P8500 or 3TA2N8750 for 3-pole.

50°C Applications see page 17/110.

400Hz Applications see page 17/110.

Shipping Weights

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

Enclosures

Type	Catalog Number	List Price \$
1	MND61	
3R	MND63	
12	MND612■	
Neutral	W63623	

Modifications page 17/110

Accessories pages 17/87 and 17/103 to 17/108

Sentron Molded Case Circuit Breakers

MD 800A Frame, Sentron Series

Selection/Dimensions

Type HMXD6^{①⑤}

Black Label

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



Type HMD6^⑥

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 \$
500 600 700 800	HMD62B500■ HMD62B600■ HMD62B700■ HMD62B800■		HMD62F800■		MD62T500■ MD62T600■ MD62T700■ MD62T800■	

2-Pole 600V AC, 250V DC^②

500	HMD62B500■			MD62T500■	
600	HMD62B600■		HMD62F800■	MD62T600■	
700	HMD62B700■			MD62T700■	
800	HMD62B800■			MD62T800■	

3-Pole 600V AC, 500V DC^④

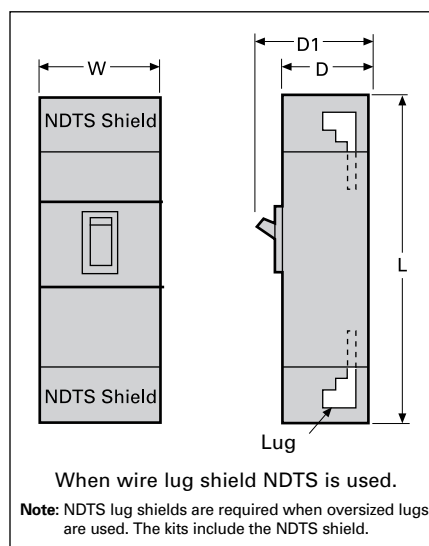
500	HMD63B500			MD63T500	
600	HMD63B600		HMD63F800	MD63T600	
700	HMD63B700			MD63T700	
800	HMD63B800			MD63T800	

Type CMD6^{①⑤}

Fuseless Current Limiting

Red Label

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



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 ^③	(lcu)	(lcs)	(lcu)	(lcs)	(lcu)	(lcs)
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 17/88 for catalog information.

④ When wired as shown on page 17/5, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

⑤ HACR rated.

Sentron Molded Case Circuit Breakers

SMD 800A Frame, Digital Solid State Sentron Sensitrip III Series^{®3}

Selection

Type SMD6

Blue Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SMD69600A■	600	
SMD69700A■	700	
SMD69800A■	800	
SMD69600AG■	600	
SMD69700AG■	700	
SMD69800AG■	800	
SMD69600ANT■	600	
SMD69700ANT■	700	
SMD69800ANT■	800	
SMD69600ANGT■	600	
SMD69700ANGT■	700	
SMD69800ANGT■	800	

Type SHMD6

Black Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SHMD69600A■	600	
SHMD69700A■	700	
SHMD69800A■	800	
SHMD69600AG■	600	
SHMD69700AG■	700	
SHMD69800AG■	800	
SHMD69600ANT■	600	
SHMD69700ANT■	700	
SHMD69800ANT■	800	
SHMD69600ANGT■	600	
SHMD69700ANGT■	700	
SHMD69800ANGT■	800	

Current Limiting Type SCMD6

Red Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SCMD69600A■	600	
SCMD69700A■	700	
SCMD69800A■	800	
SCMD69600AG■	600	
SCMD69700AG■	700	
SCMD69800AG■	800	
SCMD69600ANT■	600	
SCMD69700ANT■	700	
SCMD69800ANT■	800	
SCMD69600ANGT■	600	
SCMD69700ANGT■	700	
SCMD69800ANGT■	800	

Ordering Information

Pricing information for all Digital Sentron Series MD frames is for complete breaker only. Price requires lugs or lug kits as separate items. Lugs are suitable for 75°C wire or as noted. Connector wire ranges and cavities are established in conjunction with Table 6.1.4.2.1 of UL 489 standards. Choose actual connector for circuit breakers based on customer requirements.

Recommended Terminal Connectors

Breaker Frame	Ampere Rating	Connector or Connector Kit
MD	500–600	TA2K500
MD	700–800	TA3K500

Types SMD6 and SHMD6 are acceptable for reverse connection applications.

SMD 800A Frame – 100% Rated^①

Type SMD6-H

Blue Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SMD69600AH■	600	
SMD69700AH■	700	
SMD69800AH■	800	
SMD69600AGH■	600	
SMD69700AGH■	700	
SMD69800AGH■	800	
SMD69600ANTH■	600	
SMD69700ANTH■	700	
SMD69800ANTH■	800	
SMD69600ANGTH■	600	
SMD69700ANGTH■	700	
SMD69800ANGTH■	800	

Type SHMD6-H

Black Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SHMD69600AH■	600	
SHMD69700AH■	700	
SHMD69800AH■	800	
SHMD69600AGH■	600	
SHMD69700AGH■	700	
SHMD69800AGH■	800	
SHMD69600ANTH■	600	
SHMD69700ANTH■	700	
SHMD69800ANTH■	800	
SHMD69600ANGTH■	600	
SHMD69700ANGTH■	700	
SHMD69800ANGTH■	800	

Current Limiting Type SCMD6-H

Red Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SCMD69600AH■	600	
SCMD69700AH■	700	
SCMD69800AH■	800	
SCMD69600AGH■	600	
SCMD69700AGH■	700	
SCMD69800AGH■	800	
SCMD69600ANTH■	600	
SCMD69700ANTH■	700	
SCMD69800ANTH■	800	
SCMD69600ANGTH■	600	
SCMD69700ANGTH■	700	
SCMD69800ANGTH■	800	

Shipping Weights

Breaker Type	Number per Carton	Shipping Weight (lbs)
All types	1	61.5

Lugs for 75°C Wire^②

Catalog Number	Cables per Lug	Wire Range	List Price \$
TA2K500	2	#1-500 kcmil Cu/Al	
TA3K500	3	#1-500 kcmil Cu/Al	
TC2K500	2	#1-500 kcmil Cu	
TC3K350	3	#1-350 kcmil Cu	
Kits (3 lugs/kit)			
3TA4N8500	4	250–500 kcmil Cu/Al	
3TA4P8500	4	250–500 kcmil Cu/Al	
3TA2N8750	2	500–750 kcmil Cu/Al	
3TA3N8750	3	500–750 kcmil Cu/Al	

Each kit contains the following:
 3TA4P8500—3 connectors plus 1 NDS end barrier
 3TA3N8750—3 connectors plus 1 NDS end barrier
 3TA2N8750—3 connectors plus 1 NDS end barrier

Trip Unit Adjustable Functions

Suffix Letter Code	Trip Type	Cont Current Setting	Long Time Delay	Instantaneous Setting	Short Time Pick Up	Short Time Delay	Ground Fault Pick Up	Ground Fault Delay
A	LI	✓	✓	✓				
AG	LIG	✓	✓	✓			✓	✓
ANT	LSI	✓	✓	✓	✓	✓		
ANGT	LSIG	✓	✓	✓	✓	✓	✓	✓

Interrupting Ratings

Breaker Type	RMS Symmetrical kA UL 489 (File E10848)		
	240V AC	480V AC	600V AC
SMD6	65	50	25
SHMD6	100	65	50
SCMD6	200	100	65

Neutral Transformers

Ampere Rating	Catalog Number	List Price \$
600	N06SMDA	
700	N07SMDA	
800	N08SMDA	

Enclosures

Type	Catalog Number	List Price \$
1	MND61	
3R	MND63	
12	MND612	
Neutral	W63623	

Note: "G" suffix in catalog number denotes circuit breaker for 3-phase, 3-wire circuits.
 For 3-phase, 4-wire, order correct 4th wire (neutral) transformer as separate and additional item.

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

① Use 2-3TA4P8500 for 3-pole. These kits are rated for 90°C wire. 90°C Cu only cable must be used, and sized per 75°C ampacity.

② For additional information, see **Note: A**, page 17/100.

③ SMD6, SHMD6 and SCMD6 circuit breakers are UL Listed for reverse connection applications.

Accessories pages 17/87 and 17/103 to 17/108