

Molded Case Circuit Breakers

MD 800A Frame Sentron Series

Type HMXD6^{①③}

Black Label

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

Type HMD6^⑤

Black Label

Interchangeable Trip			
Continuous Current Rating @ 40°C	Complete Breaker Unassembled with Lugs	Frame Only	Trip Unit Only
	Catalogue Number	Catalogue Number	Catalogue Number
500	HMD62B500	HMD62F800	MD62T500
600	HMD62B600		MD62T600
700	HMD62B700		MD62T700
800	HMD62B800		MD62T800

2-Pole 600V AC, 250V DC^②

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

3-Pole 600V AC, 500V DC^④

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

Type CMD6^⑤

Fuseless Current Limiting

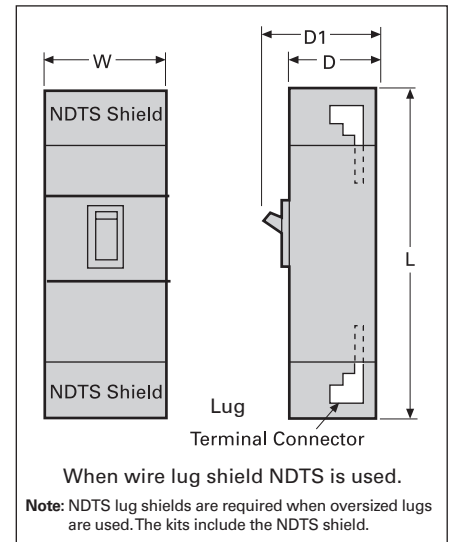
Red Label

Non-Interchangeable Trip (Assembled Circuit Breaker Without Lugs)			
Continuous Current Rating @ 40°C	2-Pole 600V AC/250V DC		3-Pole 600V AC/500V DC
			Catalogue Number
500	For 2-pole application use outside poles of 3-pole circuit breaker		CMD63B500
600			CMD63B600
700			CMD63B700
800			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 ^⑤	(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	30 (2-P)	50 (3-P)	200	100	100	50	65	33

Selection/Dimensions



Dimensions (in inches)

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

For inches / millimeters conversion, see Technical section.

①HMXD6 circuit breakers are CSA Certified / UL Listed for reverse connection applications.

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

③MXD6-ETI, CMD6-ETI see page 5-59 for catalogue information.

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

⑤HACR rated.

Molded Case Circuit Breakers

SMD 800A Frame Digital Solid State Sentron Sensitrip IV Series

Selection

Type SMD6

Blue Label

Type SHMD6-B

Black Label

Current Limiting

Type SCMD6-B

Red Label

Max Current Rating	3-Pole, 600V AC		3-Pole, 600V AC			3-Pole, 600V AC	
	Catalogue Number (Advanced trip unit) ^③	Catalogue Number (Basic trip unit)	Catalogue Number (Advanced trip unit) ^③	Catalogue Number (Basic trip unit)	Catalogue Number (Basic trip unit)	Catalogue Number (Advanced trip unit) ^③	Catalogue Number (Basic trip unit)
600	SMD6A600LI	SMD6B600LI	SHMD6A600LI	SHMD6B600LI	SHMD6A600LI	SCMD6A600LI	SCMD6B600LI
700	SMD6A700LI	SMD6B700LI	SHMD6A700LI	SHMD6B700LI	SHMD6A700LI	SCMD6A700LI	SCMD6B700LI
800	SMD6A800LI	SMD6B800LI	SHMD6A800LI	SHMD6B800LI	SHMD6A800LI	SCMD6A800LI	SCMD6B800LI
600	SMD6A600LIG	SMD6B600LIG	SHMD6A600LIG	SHMD6B600LIG	SHMD6A600LIG	SCMD6A600LIG	SCMD6B600LIG
700	SMD6A700LIG	SMD6B700LIG	SHMD6A700LIG	SHMD6B700LIG	SHMD6A700LIG	SCMD6A700LIG	SCMD6B700LIG
800	SMD6A800LIG	SMD6B800LIG	SHMD6A800LIG	SHMD6B800LIG	SHMD6A800LIG	SCMD6A800LIG	SCMD6B800LIG
600	SMD6A600LSI	SMD6B600LSI	SHMD6A600LSI	SHMD6B600LSI	SHMD6A600LSI	SCMD6A600LSI	SCMD6B600LSI
700	SMD6A700LSI	SMD6B700LSI	SHMD6A700LSI	SHMD6B700LSI	SHMD6A700LSI	SCMD6A700LSI	SCMD6B700LSI
800	SMD6A800LSI	SMD6B800LSI	SHMD6A800LSI	SHMD6B800LSI	SHMD6A800LSI	SCMD6A800LSI	SCMD6B800LSI
600	SMD6A600LSIG	SMD6B600LSIG	SHMD6A600LSIG	SHMD6B600LSIG	SHMD6A600LSIG	SCMD6A600LSIG	SCMD6B600LSIG
700	SMD6A700LSIG	SMD6B700LSIG	SHMD6A700LSIG	SHMD6B700LSIG	SHMD6A700LSIG	SCMD6A700LSIG	SCMD6B700LSIG
800	SMD6A800LSIG	SMD6B800LSIG	SHMD6A800LSIG	SHMD6B800LSIG	SHMD6A800LSIG	SCMD6A800LSIG	SCMD6B800LSIG

SMD 800A Frame – 100% Rated^①

Blue Label

Black Label

Current Limiting

Red Label

Max Current Rating	3-Pole, 600V AC		3-Pole, 600V AC			3-Pole, 600V AC	
	Catalogue Number (Advanced trip unit) ^③	Catalogue Number (Basic trip unit)	Catalogue Number (Advanced trip unit) ^③	Catalogue Number (Basic trip unit)	Catalogue Number (Basic trip unit)	Catalogue Number (Advanced trip unit) ^③	Catalogue Number (Basic trip unit)
600	SMD6A600LIH	SMD6B600LIH	SHMD6A600LIH	SHMD6B600LIH	SHMD6A600LIH	SCMD6A600LIH	SCMD6B600LIH
700	SMD6A700LIH	SMD6B700LIH	SHMD6A700LIH	SHMD6B700LIH	SHMD6A700LIH	SCMD6A700LIH	SCMD6B700LIH
800	SMD6A800LIH	SMD6B800LIH	SHMD6A800LIH	SHMD6B800LIH	SHMD6A800LIH	SCMD6A800LIH	SCMD6B800LIH
600	SMD6A600LIGH	SMD6B600LIGH	SHMD6A600LIGH	SHMD6B600LIGH	SHMD6A600LIGH	SCMD6A600LIGH	SCMD6B600LIGH
700	SMD6A700LIGH	SMD6B700LIGH	SHMD6A700LIGH	SHMD6B700LIGH	SHMD6A700LIGH	SCMD6A700LIGH	SCMD6B700LIGH
800	SMD6A800LIGH	SMD6B800LIGH	SHMD6A800LIGH	SHMD6B800LIGH	SHMD6A800LIGH	SCMD6A800LIGH	SCMD6B800LIGH
600	SMD6A600LSIH	SMD6B600LSIH	SHMD6A600LSIH	SHMD6B600LSIH	SHMD6A600LSIH	SCMD6A600LSIH	SCMD6B600LSIH
700	SMD6A700LSIH	SMD6B700LSIH	SHMD6A700LSIH	SHMD6B700LSIH	SHMD6A700LSIH	SCMD6A700LSIH	SCMD6B700LSIH
800	SMD6A800LSIH	SMD6B800LSIH	SHMD6A800LSIH	SHMD6B800LSIH	SHMD6A800LSIH	SCMD6A800LSIH	SCMD6B800LSIH
600	SMD6A600LSIGH	SMD6B600LSIGH	SHMD6A600LSIGH	SHMD6B600LSIGH	SHMD6A600LSIGH	SCMD6A600LSIGH	SCMD6B600LSIGH
700	SMD6A700LSIGH	SMD6B700LSIGH	SHMD6A700LSIGH	SHMD6B700LSIGH	SHMD6A700LSIGH	SCMD6A700LSIGH	SCMD6B700LSIGH
800	SMD6A800LSIGH	SMD6B800LSIGH	SHMD6A800LSIGH	SHMD6B800LSIGH	SHMD6A800LSIGH	SCMD6A800LSIGH	SCMD6B800LSIGH

5 MOLDED CASE CIRCUIT BREAKERS

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-B, SHMD6-B and SCMD6-B are acceptable for reverse connection applications		

Lugs for 75°C Wire^②

Catalogue Number	Cables per Lug	Wire Range	Each kit contains the following:
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	

Trip Unit Adjustable Functions

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

Interrupting Ratings

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

Neutral Transformers

Ampere Rating	Catalogue Number
600	N06SMDA
700	N07SMDA
800	N08SMDA

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.

^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 5-76.

^③ Advanced trip unit equipped with DAS / Maintenance Mode. Requires customer-supplied 24V external power supply, maintenance switch and light.

All breakers built to order. Allow 2-3 weeks for delivery.

Enclosures page 5-137
Accessories pages 5-138 - 5-146