

# Molded Case Circuit Breakers

## ND 1200A Frame Sentron Series

### Selection/Dimensions

#### Type NXD6<sup>①②</sup>

Blue 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	
	Catalog Number	List Price \$	Catalog Number	List Price \$
900	NXD62B900■		NXD63B900	
1000	NXD62B100■		NXD63B100	
1200	NXD62B120■		NXD63B120	

#### Type ND6<sup>③</sup>

Blue 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<sup>②</sup>

800	ND62B800■		ND62F120		MD62T800■	
900	ND62B900■			MD62T900■		
1000	ND62B100■			MD62T100■		
1200	ND62B120			MD62T120		

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

800	ND63B800		ND63F120		MD63T800	
900	ND63B900			MD63T900		
1000	ND63B100			MD63T100		
1200	ND63B120			MD63T120		

#### Interrupting Ratings

Breaker Type	RMS Symmetrical Amperes (KA)										
	UL 489 A IR					IEC 947-2					
	Volts AC			Volts DC		Volts AC (50/60HZ)					
	240	480	600	250	500 <sup>④</sup>	220/240		380/415		500	
						(lcu)	(lcs)	(lcu)	(lcs)	(lcu)	(lcs)
ND6, NXD6	65	50	25	30 (2-P)	25 (3-P)	65	33	40	20	30	15
HND6, HNXD6	100	65	50	30 (2-P)	50 (3-P)	100	50	65	33	42	21
CND6	200	100	65	30 (2-P)	50 (3-P)	200	100	100	50	65	33

#### Instantaneous Adjustment Trip Range

Breaker Ampere Rating	Nominal Instantaneous Values							
	Low	2	3	4	5	6	7	High
800	4000	4570	5140	5710	6280	6850	7420	8000
900-1200	5000	5715	6430	7145	7860	8575	9290	10000

#### Ordering Information

##### Complete Breaker Unassembled with Lugs

Prices of ND6 and HND6 breakers include frame, trip, and both line and load lugs (3TA4N8500). These catalog numbers are the frame, trip and lugs separately packaged. For applications requiring different lugs, order individual items as needed.

##### Complete Breaker Assembled without Lugs

Prices of NXD6, HNXD6, and CND6 include frame with non-interchangeable trip units installed only. Order required terminal connectors separately.

For line and load lugs (3TA4N8500) installed, add suffix "L" to catalog number (add 2 times list price of lug kit).

##### 100% Rated<sup>⑤</sup>

Types NXD6, HNXD6 and CND6 breakers are available with 100% ratings. To order, suffix "H" to catalog number, and add 10% to list price. 100% rated ND breakers require 90°C Cu cable and lug kit 3TA4P8500.

##### 50°C Applications

##### 400Hz Applications

#### Lugs<sup>⑦</sup>

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 (2 Kits required per breaker)

2TA4P8500 <sup>⑥</sup>	4	250-500 kcmil Cu/Al	
3TA4P8500 <sup>⑥</sup>			
2TA4N8500 <sup>⑥</sup>	4	250-500 kcmil Cu/Al	
3TA4N8500 <sup>⑥</sup>			
2TA2N8750	2	600-750 kcmil Cu/Al	
3TA2N8750			
2TA3N8750	3	500-750 kcmil Cu/Al	
3TA3N8750			

#### Enclosures

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

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

①NXD6 circuit breakers are UL listed for reverse connection applications.

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

③When wired as shown on page 11/3, this circuit breaker is UL listed and rated for use on 500VDC ungrounded UPS systems only.

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

⑤Use 2 - 3TA4P8500 kits for 3-pole, or 2 - 2TA4P8500 kits for 2-pole. Rated for 90°C cable. Use for 100% rated breakers.

⑥Use 2 - 3TA4N8500 for 3-pole or 2 - 2TA4N8500 for 2-pole. Rated for 75°C cable.

⑦See **Note: A**, page 11/62.

⑧80% rated breakers with the CE mark will also be marked in the 100% rated version.

⑨HACR rated.

Modifications page 11/65

Accessories pages 11/42 and 11/67 to 11/72

# Molded Case Circuit Breakers

## ND 1200A Frame Sentron Series

### Selection

#### Type HNXD6<sup>①④</sup>

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	
	Catalog Number	List Price \$	Catalog Number	List Price \$
900 1000 1200	For 2-pole application use outside poles of 3-pole circuit breaker		HNXD63B900 HNXD63B100 HNXD63B120	



#### Type HND6<sup>④</sup>

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<sup>②</sup>

800 900 1000 1200	For 2-pole application use outside poles of 3-pole circuit breaker
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#### 3-Pole 600V AC, 500V DC<sup>③</sup>

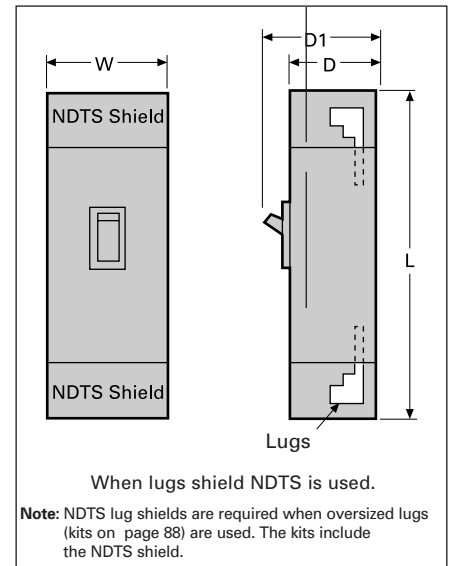
800 900 1000 1200	HND63B800 HND63B900 HND63B100 HND63B120	HND63F120	MD63T800 ND63T900 ND63T100 ND63T120
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#### Type CND6<sup>④</sup>

#### Fuseless Current Limiting

Red Label

Non-Interchangeable Trip (Assembled Circuit Breaker)				
Continuous Current Rating @ 40°C	2-Pole		3-Pole	
	Catalog Number	List Price \$	Catalog Number	List Price \$
900 1000 1200	For 2-pole application, use outside poles of 3-pole circuit breaker		CND63B900■ CND63B100 CND63B120	



#### Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.)
<b>ND6, HND6, NXD6, HNXD6, CND6 Assembled Breaker (less terminals)</b>		
2	1	53
3	1	61.5
<b>ND6, HND6 Frame Only</b>		
2	1	42.25
3	1	46
<b>ND6, HND6 Trip Unit Only</b>		
2	1	4.5
3	1	6.5

#### Dimensions (in inches)

Breaker Type	W	L	D	D1
ND6, NXD6, HND6, HNXD6, CND6	9	16	6	8.25
with NDTs lug shield	9	29	6	8.25

For inches / millimeters conversion, see Application Data section.

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

④ HNXD6 circuit breakers are UL Listed for reverse connection applications.

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

③ When wired as shown on page 11/3, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.

④ HACR rated.

# Molded Case Circuit Breakers

## SND 1200A Frame Digital Solid State Sentron Sensitrip III Series

### Selection/Dimensions

#### Type SND6

##### Blue Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SND69800A■	800	
SND69100A■	1000	
SND69120A■	1200	
SND69800AG■	800	
SND69100AG■	1000	
SND69120AG■	1200	
SND69800ANT■	800	
SND69100ANT■	1000	
SND69120ANT■	1200	
SND69800ANGT■	800	
SND69100ANGT■	1000	
SND69120ANGT■	1200	

#### Type SHND6

##### Black Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SHND69800A■	800	
SHND69100A■	1000	
SHND69120A■	1200	
SHND69800AG■	800	
SHND69100AG■	1000	
SHND69120AG■	1200	
SHND69800ANT■	800	
SHND69100ANT■	1000	
SHND69120ANT■	1200	
SHND69800ANGT■	800	
SHND69100ANGT■	1000	
SHND69120ANGT■	1200	

#### Current Limiting Type SCND6

##### Red Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SCND69800A■	800	
SCND69100A■	1000	
SCND69120A■	1200	
SCND69800AG■	800	
SCND69100AG■	1000	
SCND69120AG■	1200	
SCND69800ANT■	800	
SCND69100ANT■	1000	
SCND69120ANT■	1200	
SCND69800ANGT■	800	
SCND69100ANGT■	1000	
SCND69120ANGT■	1200	



## SND 1200A Frame – 100% Rated<sup>①</sup>

#### Type SND6-H

##### Blue Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SND69800AH■	800	
SND69100AH■	1000	
SND69120AH■	1200	
SND69800AGH■	800	
SND69100AGH■	1000	
SND69120AGH■	1200	
SND69800ANTH■	800	
SND69100ANTH■	1000	
SND69120ANTH■	1200	
SND69800ANGTH■	800	
SND69100ANGTH■	1000	
SND69120ANGTH■	1200	

#### Type SHND6H

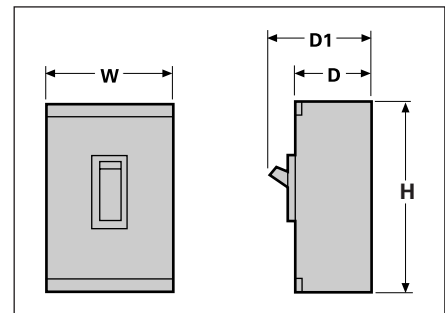
##### Black Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SHND69800AH■	800	
SHND69100AH■	1000	
SHND69120AH■	1200	
SHND69800AGH■	800	
SHND69100AGH■	1000	
SHND69120AGH■	1200	
SHND69800ANTH■	800	
SHND69100ANTH■	1000	
SHND69120ANTH■	1200	
SHND69800ANGTH■	800	
SHND69100ANGTH■	1000	
SHND69120ANGTH■	1200	

#### Current Limiting Type SCND6-H

##### Red Label

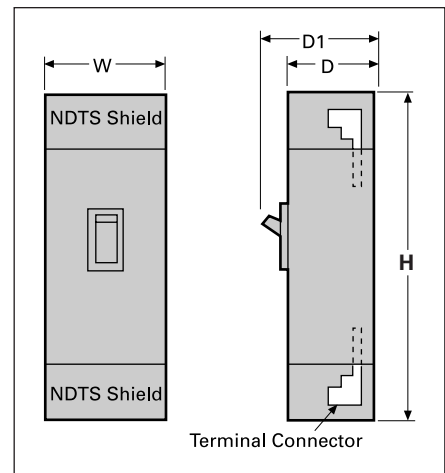
3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SCND69800AH■	800	
SCND69100AH■	1000	
SCND69120AH■	1200	
SCND69800AGH■	800	
SCND69100AGH■	1000	
SCND69120AGH■	1200	
SCND69800ANTH■	800	
SCND69100ANTH■	1000	
SCND69120ANTH■	1200	
SCND69800ANGTH■	800	
SCND69100ANGTH■	1000	
SCND69120ANGTH■	1200	



SMD6, SHMD6, SCMD6, SND6, SHND6, SCND6

#### Trip Unit Adjustable Functions

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



When wire connector shield NDTs is used.

#### Neutral Transformers

Ampere Rating	Catalog Number	List Price \$
1000	N10SNDA	
1200	N12SNDA	

#### Dimensions (in Inches)

Breaker Type	W	H	D	D1
SMD6, SHMD6, SCMD6 SND6, SHND6, SCND6	9	16	6	8.25
With NDTs shields	9	24	6	8.25

For inches / millimeters conversion, see Application Data section.

For ordering information and terminal connectors, additional neutral transformers and enclosures, see page 11/37.

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 conductors.

# Molded Case Circuit Breakers

## Internal Accessories

### Selection

Accessories for:

**MD/SMD 800A Frame**  
**ND/SND 1200A Frame**  
**PD/SPD 1600A Frame**  
**RD 2000A Frame**



Accessory modules can mount in either left hand or right hand poles of all circuit breakers, including solid state. Exception: when mechanical interlock is used. Accessories cannot be mounted in left pole.

### Sensitrip Ammeter



The Ammeter Display Units plug into the Sensitrip Trip Unit and displays the phrase current flowing in the SADU breaker. They are powered by the breaker's CT's with replaceable battery back-up for maintaining trip and max logs.

The SADU reads currents, current imbalance, current demand, and trip status.

### Ammeter Mounting Kit

The Ammeter may also be panel or door mounted using the SADURMK18 remote mounting kit.

### Shunt Trip Combinations

Control Voltage		1 Shunt Trip		1 Shunt Trip and 1 Auxiliary Switch	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$
120		S01MN6		S01MN64A	
208		S02MN6▲		S02MN64A▲	
240		S03MN6		S03MN64A▲	
277		S15MN6▲		S15MN64A▲	
480		S04MN6▲		S04MN64A▲	
600		S06MN6▲		—	
	12	S16MN6▲		S16MN64A▲	
	24	S07MN6		S07MN64A	
	48	S09MN6▲		—	
	125	S11MN6		S11MN64A▲	
	250	S13MN6▲		S13MN64A▲	

### Undervoltage Trip Combinations

Control Voltage		1 Undervoltage Trip		1 Undervoltage Trip and 1 Auxiliary Switch		1 Undervoltage Trip and 2 Auxiliary Switches	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
120		U01MN6		U01MN64A		U01MN64AA	
208		U02MN6▲		U02MN64A▲		U02MN64AA▲	
240		U03MN6▲		U03MN64A▲		U03MN64AA▲	
277		U15MN6▲		U15MN64A▲		U15MN64AA▲	
480		U04MN6▲		U04MN64A▲		U04MN64AA▲	
600		U06MN6▲		—		—	
	24	U07MN6		U07MN64A		U07MN64AA	
	48	U09MN6▲		U09MN64A▲		U09MN64AA▲	
	125	U11MN6▲		U11MN64A▲		U11MN64AA▲	
	250	U13MN6▲		U13MN64A▲		U13MN64AA▲	

### Auxiliary Switch Combinations

Maximum Voltage		1 Form C		2 Form C	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$
480	250	A01MN64		A02MN64	
—	12	A01MNDLV▲		(Gold Plated Contacts)	

### Alarm Switch Combinations

Maximum Voltage		1 Alarm Switch		1 Alarm Switch and 1 Auxiliary Switch		1 Alarm Switch and 2 Auxiliary Switches	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
480	250	B00MN64		A01MN64B		A02MN64B	

### Plug-in Ammeter Display Units

Breaker Type	Desc.	Catalog Number	List Price \$
SMD, SND, SPD	Display Unit	SADU	
	Remote Mounting Kit	SADURMK18	

▲ Built to order. Allow 6–8 weeks for delivery.