

# Molded Case Circuit Breakers

## PD 1600A Frame Sentron Series

Selection

Type PXD6<sup>2</sup> Non-Interchangeable Trip<sup>5</sup>

3-Pole 600V AC, 250-500V DC<sup>1</sup>

Blue Label

Continuous Current Rating 40°C	Complete Breaker Assembled (Frame/ Trip Unit Only)		Mounting Assembly		Lugs (6 required)	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1200	PXD63B120■	16870.00	MB9301	1227.00	TA5P600	320.00
1400	PXD63B140■	16870.00	-or-			
1600	PXD63B160	16870.00	MBR9302			

Type PD6 Interchangeable Trip<sup>5</sup>

3-Pole 600V AC, 250-500V DC<sup>1</sup>

Blue Label

Continuous Current Rating 40°C	Complete Breaker Unassembled		Frame Only		Trip Unit Only		Mounting Assembly		Lugs (6 required)	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1200	PD63B120■	20017.00	PD63F160	8671.00	PD63T120■	8199.00	MB9301	1227.00	TA5P600	320.00
1400	PD63B140	20017.00			PD63T140	8199.00				
1600	PD63B160	20017.00			PD63T160	8199.00				

Type HPXD6<sup>2</sup> Non-Interchangeable Trip<sup>5</sup>

3-Pole 600V AC, 250-500V DC<sup>1</sup>

Blue Label

Continuous Current Rating 40°C	Complete Breaker Assembled (Frame/ Trip Unit Only)	
	Catalog Number	List Price \$
1200	HPXD63B120■	19029.00
1400	HPXD63B140■	19029.00
1600	HPXD63B160	19029.00

Type HPD6 Interchangeable Trip<sup>5</sup>

3-Pole 600V AC, 250-500V DC<sup>1</sup>

Black Label

Continuous Current Rating 40°C	Complete Breaker Unassembled		Frame Only		Trip Unit Only		Mounting Assembly		Lugs (6 required)	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1200	HPD63B120■	22174.00	HPD63F160	10828.00	PD63T120■	8199.00	MB9301	1227.00	TA5P600	320.00
1400	HPD63B140	22174.00			PD63T140	8199.00				
1600	HPD63B160	22174.00			PD63T160	8199.00				

Type CPD6 Non-Interchangeable Trip<sup>5</sup>

Fuseless Current Limiting  
3-Pole 600V AC, 250-500V DC<sup>1</sup>

Red Label

Continuous Current Rating 40°C	Complete Breaker Assembled (Frame/ Trip Unit Only)	
	Catalog Number	List Price \$
1200	CPD63B120■	21310.00
1400	CPD63B140■	21310.00
1600	CPD63B160■	21310.00

### Interrupting Ratings

Breaker Type	UL 489 A IR					IEC 947-2					
	RMS Symmetrical KA					Volts AC (50/60HZ)					
	Volts AC			Volts DC <sup>1</sup>		220/240		380/415		500	
	240	480	600	250	500	(lcu)	(lcs)	(lcu)	(lcs)	(lcu)	(lcs)
PD6, PXD6	65	50	25	30 (2P)	25 (3P)	65	33	40	10	30	8
HPD6, HPXD6	100	65	50	30 (2P)	50 (3P)	100	50	65	17	42	11
CPD6	200	100	65	30 (2P)	50 (3P)	200	100	100	25	65	17

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

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

① Use two outside poles of a 3-pole circuit breaker for 250V

② When wired as shown on page 6-3, this circuit breaker is

UL listed and rated for use on 500V DC ungrounded UPS systems only.

③ PXD6, HPXD6 and CPD6 type circuit breakers are UL Listed for reverse feed applications.

④ For additional information See Note: A, page 6-81.

⑤ HACR rated.

Note: PD frame qualified to UL489 supplement B "NAVAL". See page 6-84 for additional information.

### Ordering Instructions

#### Complete Breaker Unassembled with Lugs

Prices of PD6, HPD6, RD6, and HRD6 type breakers include frame, trip, mounting base (MB9301), and both line and load lugs (PD Frame – TA5P600, RD Frame – TC5R600). When ordered by these catalog numbers, the customer will receive the frame, trip, mounting assembly and lugs separately packaged. For applications requiring different mounting base or lugs, order individual items as needed.

#### Complete Breaker Assembled without Lugs

Prices of PXD6, HPXD6, RXD6, HRXD6 and CPD6 type breakers include frame with non-interchangeable trip unit installed only. Order required mounting base and lugs separately.

#### 100% Rated (3-Pole only)

Types PXD6, HPXD6 breakers are available with 100% ratings. To order add suffix "H" to catalog number, and 10% to list price. 100% PD breakers require 90° C cable sized at 75° C ampacity and TC5R600 lugs. RD 2000A Frames not available with 100% ratings.

50°C Applications see page 6-84.

400HZ Applications see page 6-84.

### Lugs<sup>4</sup>

Catalog Number	No of Cables per Connector	Wire Range	List Price \$
TA5P600	1-5 Pcs.	300-600 kcmil Cu/Al	320.00
TC5R600	1-5 Pcs.	300-600 kcmil Cu only	426.00
TA4P750▲	1-4 Pcs.	500-750 kcmil Cu/Al	254.00
TA6R600	1-6 Pcs.	300-600 kcmil Cu/Al	338.00

# Molded Case Circuit Breakers

## SPD 1600A Frame Digital Solid State Sentron Sensitrip III Series

### Selection/Dimensions

#### Ordering Information

Pricing information for all Digital Sentron Series PD frame unit is for breaker only. Price required mounting block assembly and necessary terminal connectors as separate items.

SPD6 and SHPD6 are acceptable for reverse connection applications.



#### Type SPD6

##### Blue Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SPD69140	1400	20564.00
SPD69160	1600	20564.00
SPD69140G	1400	22340.00
SPD69160G	1600	22340.00
SPD69140NT	1400	20903.00
SPD69160NT	1600	20903.00
SPD69140NGT	1400	24776.00
SPD69160NGT	1600	24776.00

#### Type SHPD6

##### Black Label

3-Pole, 600V AC		
Catalog Number	Max Current Rating	List Price \$
SHPD69140	1400	21211.00
SHPD69160	1600	21211.00
SHPD69140G	1400	23206.00
SHPD69160G	1600	23206.00
SHPD69140NT	1400	21972.00
SHPD69160NT	1600	21972.00
SHPD69140NGT	1400	25709.00
SHPD69160NGT	1600	25709.00

#### Lugs<sup>①</sup>

Catalog Number	No. of Cables per Connector	Wire Range	List Price \$
TA5P600	1-5 pcs.	300-600 kcmil Cu/Al	320.00
TC5R600	1-5 pcs.	300-600 kcmil Cu Only	426.00
TA6R600	1-5 pcs.	300-600 kcmil Cu/Al	338.00

#### Neutral Transformers

Ampere Rating	Catalog Number	List Price \$
1400	N14SPD	423.00
1600	N16SPD	423.00

#### Enclosure

Type	Catalog Number	List Price \$
1	PRD6N1	6324.00

#### Mounting Block (Required)<sup>①</sup>

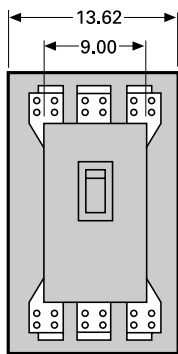
Catalog Number	List Price \$
MB9301	1227.00
MBR9302	1227.00

Suffix Letter Code	Trip Type	Cont Current Setting	Long Time Delay	Instantaneous Setting	Short Time Pick Up	Short Time Delay	Short Time $I^2t$ Pick Up	Ground Fault Pick Up	Ground Fault Delay
None	LI	✓	✓	✓					
G	LIG	✓	✓	✓				✓	✓
NT	LSI	✓	✓	✓	✓	✓	✓		
NGT	LSIG	✓	✓	✓	✓	✓	✓	✓	✓

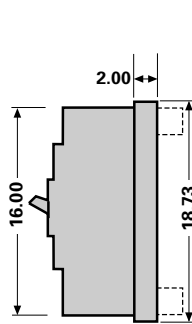
#### Interrupting Ratings

Breaker Type	RMS Symmetrical kA UL 489		
	240V AC	480V AC	600V AC
SPD6	65	50	25
SHPD6	100	65	50

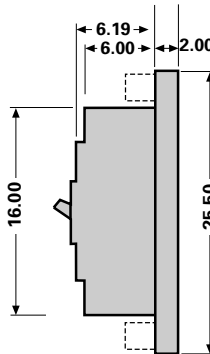
#### All PD, RD Frames:



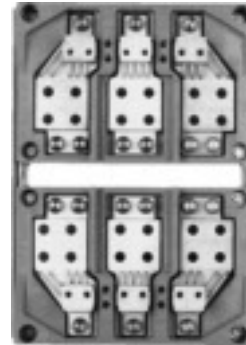
MB9301 (shown)  
MBR9302



MBR9302



MB9301



MBR9302



MB9301

For inches / millimeters conversion, see Application Data section.

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

① For additional information, see Note A, page 6-81.

Note: The PD frame circuit breaker requires the use of a connect-all mounting assembly to allow for placing into service.

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.

# 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 phase current flowing in the 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	636.00	S01MN64A	897.00
208		S02MN6▲	636.00	—	—
240		S03MN6	636.00	S03MN64A▲	897.00
277		S15MN6▲	636.00	S15MN64A▲	897.00
480		S04MN6▲	636.00	S04MN64A▲	897.00
600		S06MN6▲	636.00	—	—
	12	S16MN6▲	636.00	S16MN64A▲	897.00
	24	S07MN6	636.00	S07MN64A	897.00
	48	S09MN6▲	636.00	—	—
	125	S11MN6	636.00	S11MN64A▲	897.00
	250	S13MN6▲	636.00	S13MN64A▲	897.00

### 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	636.00	U01MN64A	897.00	U01MN64AA	1157.00
208		U02MN6▲	636.00	U02MN64A▲	897.00	U02MN64AA▲	1157.00
240		U03MN6▲	636.00	U03MN64A▲	897.00	U03MN64AA▲	1157.00
277		U15MN6▲	636.00	U15MN64A▲	897.00	U15MN64AA▲	1157.00
480		U04MN6▲	636.00	U04MN64A▲	897.00	U04MN64AA▲	1157.00
600		U06MN6▲	636.00	—	—	—	—
	24	U07MN6	636.00	U07MN64A	897.00	U07MN64AA	1157.00
	48	U09MN6▲	636.00	U09MN64A▲	897.00	U09MN64AA▲	1157.00
	125	U11MN6▲	636.00	U11MN64A▲	897.00	U11MN64AA▲	1157.00
	250	U13MN6▲	636.00	U13MN64A▲	897.00	U13MN64AA▲	1157.00

### Auxiliary Switch Combinations

Maximum Voltage		1 Form C		2 Form C	
AC	DC	Catalog Number	List Price \$	Catalog Number	List Price \$
480	250	A01MN64	271.00	A02MN64	540.00
—	12	A01MNDLV▲	342.00	A02MNDLV▲	684.00

### 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	271.00	A01MN64B	540.00	A02MN64B	802.00

### Plug-in Ammeter Display Units

Breaker Type	Description	Catalog Number	List Price \$
SMD, SND, SPD	Display Unit	SADU	1776.00
	Remote Mounting Kit	SADURMK18	342.00

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