

# Sentron Molded Case Circuit Breakers

## Accessories

### Selection

#### Type FXD6-A<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 \$
70	FXD62B070■		FXD63B070	
80	FXD62B080■		FXD63B080	
90	FXD62B090■		FXD63B090	
100	FXD62B100		FXD63B100■	
110	FXD62B110■		FXD63B110	
125	FXD62B125		FXD63B125	
150	FXD62B150		FXD63B150	
175	FXD62B175		FXD63B175■	
200	FXD62B200		FXD63B200	
225	FXD62B225		FXD63B225	
250	FXD62B250		FXD63B250	

#### Type FD6-A<sup>⑦</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>

70	FD62B070■				FD62T070■	
80	FD62B080■				FD62T080■	
90	FD62B090■				FD62T090■	
100	FD62B100■				FD62T100■	
110	FD62B110■				FD62T110■	
125	FD62B125■			FD62F250	FD62T125■	
150	FD62B150				FD62T150	
175	FD62B175■				FD62T175■	
200	FD62B200				FD62T200	
225	FD62B225■				FD62T225■	
250	FD62B250■				FD62T250■	

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

70	FD63B070■				FD63T070■	
80	FD63B080■				FD63T080■	
90	FD63B090■				FD63T090■	
100	FD63B100				FD63T100	
110	FD63B110■				FD63T110■	
125	FD63B125			FD63F250	FD63T125	
150	FD63B150				FD63T150	
175	FD63B175				FD63T175	
200	FD63B200				FD63T200	
225	FD63B225				FD63T225	
250	FD63B250				FD63T250	

#### Interrupting Ratings

Breaker Type	RMS Symmetrical Amperes (KA)										
	UL 489 AIR (File E10848)					IEC 947-2					
	Volts AC (50/60Hz)			Volts DC		Volts AC (50/60Hz)					
	240	480	600	250	500 <sup>④</sup>	220/240	380/415	500			
						l <sub>cu</sub>	l <sub>cs</sub>	l <sub>cu</sub>	l <sub>cs</sub>	l <sub>cu</sub>	l <sub>cs</sub>
FXD6-A, FD6-A	65	35	22	30 (2-P)	18 (3-P)	65	33	35	9	20	10
HFXD6 <sup>⑤</sup> , HFD6 <sup>⑤</sup>	100	65	25	30 (2-P)	25 (3-P)	100	50	65	33	42	21
HHFD6 <sup>⑤</sup> , HHFXD6 <sup>⑤</sup>	200	100	25	—	—	200	100	100	50	65	33
CFD6	200	200	100	30 (2-P)	50 (3-P)	—	—	—	—	—	—

#### Instantaneous Adjustment Trip Range

Breaker Ampere Rating	Nominal Instantaneous Values							
	±20% Tolerance Low	2	3	4	5	6	7	±20% Tolerance High
	70-90	600	640	690	730	770	810	850
100-110	700	770	840	920	990	1060	1140	1200
125-150	800	900	1000	1100	1200	1300	1400	1500
175-200	900	1060	1210	1370	1520	1780	1930	2000
225-250	1100	1300	1500	1700	1900	2100	2300	2500

Note: FD frame qualified to UL489 supplement SB "NAVAL". See page 17/110 for additional information.

#### Ordering Information

##### Complete Breaker Unassembled with Lugs

Prices of FD6, HFD6, and HHFD6 breakers includes frame, trip and both line and load lugs (TA1FD350A). 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 FXD6, HFXD6, HHFXD6, and CFD6 includes frame with non-interchangeable trip unit installed only. Order required lugs separately. For line and load lugs (TA1FD350A) installed, add suffix "L" to catalog number (add 2 times list price of lugs for each pole).

50°C Applications see page 17/110.

400 Hz Applications see page 17/110.

#### Lugs For 75°C Wire<sup>⑤</sup>

Catalog Number	Wire Range	List Price \$
TA1FD350A	#6—350 kcmil Cu #4—350 kcmil Al	
TC1FD350	#6—350 kcmil Cu	
Compression Lug		
CCF250	350 kcmil Cu/Al	

#### Enclosures

Type	Catalog Number	List Price \$
1	F6N1S(F)	
3R	F6N3R	
4-4X	FD6SS4	
7-9	EC2	
12	F6N12	
Neutral <sup>⑥</sup>	N250	

Modifications page 17/110  
Accessories pages 17/68 and 17/103 to 17/108

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

① Type FXD6-A circuit breakers are UL Listed for reverse fed applications.

② 2-pole units are 3-pole width.

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 only.

④ Order neutral as separate item.

⑤ See Note: A, page 17/100.

⑥ HFD6 and HHFD6 type circuit breakers meet the

UL criteria for "current limiting" at 240 and 480V AC.

⑦ HACR rated.

# Sentron Molded Case Circuit Breakers

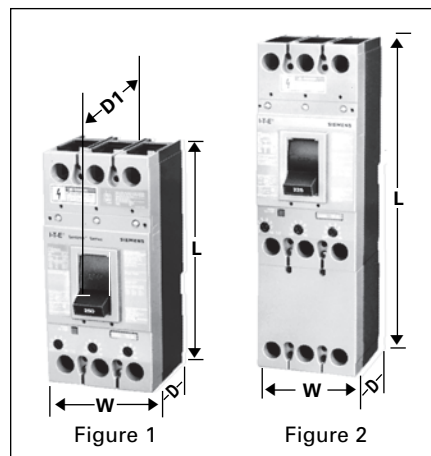
## FD 250A Frame, Sentron Series

### Selection/Dimensions

Type HFD6, Type HFXD6<sup>②③④⑤⑥</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 \$
<b>2-Pole 600V AC, 250V DC (3-Pole Width)</b>						
70	HFD62B070		HFD62F250		FD62T070	
80	HFD62B080				FD62T080	
90	HFD62B090				FD62T090	
100	HFD62B100				FD62T100	
110	HFD62B110				FD62T110	
125	HFD62B125				FD62T125	
150	HFD62B150				FD62T150	
175	HFD62B175				FD62T175	
200	HFD62B200				FD62T200	
225	HFD62B225				FD62T225	
250	HFD62B250				FD62T250	



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

70	HFD63B070		HFD63F250		FD63T070	
80	HFD63B080				FD63T080	
90	HFD63B090				FD63T090	
100	HFD63B100				FD63T100	
110	HFD63B110				FD63T110	
125	HFD63B125				FD63T125	
150	HFD63B150				FD63T150	
175	HFD63B175				FD63T175	
200	HFD63B200				FD63T200	
225	HFD63B225				FD63T225	
250	HFD63B250				FD63T250	

Dimensions (in inches)

Breaker Type	W	L	D	D1 (to handle)
Figure 1 FXD6-A, FD6-A, HFD6, HFXD6, HHFD6, FD6-ETI <sup>⑤</sup>	4.50	9.50	4	5.25
Figure 2 CFD6, CFD6-ETI <sup>⑤</sup>	4.50	14.25	4	5.25

Type HHFD, HHFXD6<sup>②③④⑥</sup>

**3-Pole 600V AC, Extra High Interrupting**

70	HHFD63B070		HHFD63F250		FD63T070	
80	HHFD63B080				FD63T080	
90	HHFD63B090				FD63T090	
100	HHFD63B100				FD63T100	
110	HHFD63B110				FD63T110	
125	HHFD63B125				FD63T125	
150	HHFD63B150				FD63T150	
175	HHFD63B175				FD63T175	
200	HHFD63B200				FD63T200	
225	HHFD63B225				FD63T225	
250	HHFD63B250				FD63T250	

Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.)
<b>FD6-A, HFD6, HHFD6, FXD6-A Assembled Circuit Breaker (less connectors)</b>		
2	1	8.6
3	1	10
<b>FD6-A, HFD6, HHFD6 Frame Only</b>		
2	1	7.5
3	1	8.7
<b>FD6 Trip Unit Only</b>		
2	1	1.1
3	1	1.3
<b>CFD6 Assembled Circuit Breaker (less terminals)</b>		
2	1	31
3	1	34

Type CFD6<sup>③⑥</sup>

**Fuseless Current Limiting**

Red Label

Continuous Current Rating @ 40°C	3-Pole 600V AC/500V DC	
	Catalog Number	List Price \$
	70	CFD63B070
80	CFD63B080	
90	CFD63B090	
100	CFD63B100	
110	CFD63B110	
125	CFD63B125	
150	CFD63B150	
175	CFD63B175	
200	CFD63B200	
225	CFD63B225	
250	CFD63B250	

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

① When wired as shown on page 17/5, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems.

② For non-interchangeable trip 3-pole HFD6 type circuit

breaker, change prefix identifier from HFD6 to HFXD6. Price equals frame and trip prices combined, e.g. price of HFXD63B250 equals price of HFD63F250 plus price of FD63T250. Order lugs separately.

③ Type HFXD6, HHFXD6, CFD6 are UL Listed for reverse feed applications.

④ Type HFXD6, HFD6, HHFD6, HHFXD6 meet the UL criteria for "Current Limiting" at 240 VAC and 480V AC.

⑤ FXD6, ETI, CFD6, ETI — See page 17/88 for ordering information.

⑥ HACR rated.