



# Molded Case Circuit Breakers

Selection

## FD 250A Frame Sentron Series

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Molded Case Circuit Breakers

### Type FXD6-A<sup>①</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 <sup>③</sup>	Catalog Number	List Price <sup>③</sup>
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

BLUE LABEL

Interchangeable Trip						
Continuous Current Rating @ 40°C	Complete Breaker Unassembled with Lugs		Frame Only		Trip Unit Only	
	Catalog Number	List Price <sup>③</sup>	Catalog Number	List Price <sup>③</sup>	Catalog Number	List Price <sup>③</sup>

#### 2-Pole 600V AC, 250V DC<sup>②</sup>

Continuous Current Rating @ 40°C	Catalog Number	List Price <sup>③</sup>	Frame Only Catalog Number	List Price <sup>③</sup>	Trip Unit Only Catalog Number	List Price <sup>③</sup>
70	FD62B070		FD62F250		FD62T070	
80	FD62B080				FD62T080	
90	FD62B090				FD62T090	
100	FD62B100				FD62T100	
110	FD62B110				FD62T110	
125	FD62B125				FD62T125	
150	FD62B150				FD62T150	
175	FD62B175				FD62T175	
200	FD62B200				FD62T200	
225	FD62B225				FD62T225	
250	FD62B250				FD62T250	

#### 3-Pole 600V AC, 500V DC<sup>②</sup>

Continuous Current Rating @ 40°C	Catalog Number	List Price <sup>③</sup>	Frame Only Catalog Number	List Price <sup>③</sup>	Trip Unit Only Catalog Number	List Price <sup>③</sup>
70	FD63B070		FD63F250		FD63T070	
80	FD63B080				FD63T080	
90	FD63B090				FD63T090	
100	FD63B100				FD63T100	
110	FD63B110				FD63T110	
125	FD63B125				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
						Icu	Ics	Icu	Ics	Icu	Ics
FXD6-A, FD6-A	65	35	18	30 (2-P)	18 (3-P)	65	33	35	9	20	10
HFXD6 <sup>⑤</sup> , HFD6 <sup>⑥</sup>	100	65	25	30 (2-P)	25 (3-P)	100	50	65	33	42	21
HHFD6 <sup>⑤</sup> , HHFXD6 <sup>⑥</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							
	Low	2	3	4	5	6	7	High
70-90	600	640	690	730	770	810	850	900
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 857 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 (TA1FD350). 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 857.
- ▶ 400 Hz Applications see page 857.

### Lugs For 75°C Wire<sup>⑧</sup>

Catalog Number	Wire Range	List Price <sup>③</sup>
TA1FD350A	#6—350 kcmil Cu	
TC1FD350	#4—350 kcmil Al	
	#6—350 kcmil Cu	
Compression Lug		
CCF250	#6—350 kcmil Cu/Al	

### Enclosures

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

Modifications page 857  
Accessories pages 854-872

- 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 815, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.
- ④ Order neutral as separate item.
- ⑤ Molded case circuit breakers having a rated ampacity of 125 amperes or less are to be connected with 60 or 75°C wire. Circuit breakers having a rated ampacity greater than 125 amperes shall only be cabled with 75°C cable unless otherwise indicated on the circuit breaker label. Exceptions to this rule are outlined in article 110-14 C(1)(2) of the 1996 National Electrical Code.
- ⑥ HFD6 and HHFD6 type circuit breakers meet the UL criteria for "current limiting" at 240 and 480V AC.
- ⑦ Consult sales office for prices.

Built to order. Allow 2 weeks for production.

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# Molded Case Circuit Breakers

Selection / Dimensions

## FD 250A Frame Sentron Series

Type HFD6, Type HFXD6<sup>④⑤</sup>

BLACK LABEL

Interchangeable Trip						
Continuous Current Rating @ 40°C	Complete Breaker Unassembled with Lugs		Frame Only		Trip Unit Only	
	Catalog Number	List Price <sup>⑥</sup>	Catalog Number	List Price <sup>⑥</sup>	Catalog Number	List Price <sup>⑥</sup>

2-Pole 600V AC, 250V DC (3 Pole Width)

70	HFD62B070				FD62T070	
80	HFD62B080				FD62T080	
90	HFD62B090				FD62T090	
100	HFD62B100				FD62T100	
110	HFD62B110				FD62T110	
125	HFD62B125		HFD62F250		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				FD63T070	
80	HFD63B080				FD63T080	
90	HFD63B090				FD63T090	
100	HFD63B100				FD63T100	
110	HFD63B110				FD63T110	
125	HFD63B125		HFD63F250		FD63T125	
150	HFD63B150				FD63T150	
175	HFD63B175				FD63T175	
200	HFD63B200				FD63T200	
225	HFD63B225				FD63T225	
250	HFD63B250				FD63T250	

Type HHFD<sup>④</sup>, HHFXD6<sup>②③④</sup>

3-Pole 600V AC, Extra High Interrupting

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

Type CFD6<sup>③</sup>

Fuseless Current Limiting

RED LABEL

Non-Interchangeable Trip (Assembled Circuit Breaker Without Lugs)					
Continuous Current Rating @ 40°C	2-Pole (3 Pole Width)			3-Pole	
	600V AC/250V DC			600V AC/500V DC	
	Catalog Number	List Price <sup>⑥</sup>		Catalog Number	List Price <sup>⑥</sup>
70	CFD62B070			CFD63B070	
80	CFD62B080			CFD63B080	
90	CFD62B090			CFD63B090	
100	CFD62B100			CFD63B090	
110	CFD62B110			CFD63B090	
125	CFD62B125			CFD63B090	
150	CFD62B150			CFD63B150	
175	CFD62B175			CFD63B175	
200	CFD62B200			CFD63B200	
225	CFD62B225			CFD63B225	
250	CFD62B250			CFD63B250	

For inches / millimeters conversion, see page 935.

①When wired as shown on page 815, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems.

②For 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.

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

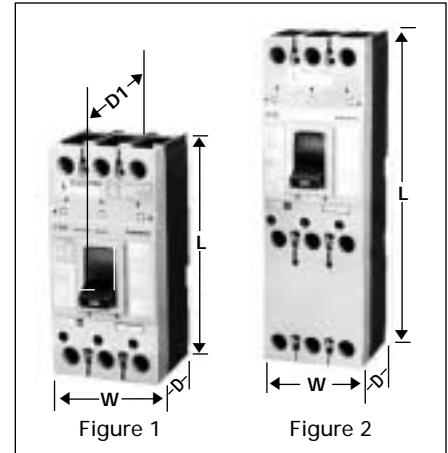


Figure 1

Figure 2

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

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

Built to order. Allow 2 weeks for production.

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

⑤FXD6, ETI, CFD6, ETI — See page 852 for ordering information.

⑥Consult sales office for prices.

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Molded Case  
Circuit Breakers

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