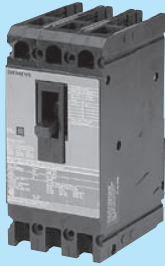


## 600V Circuit Breakers



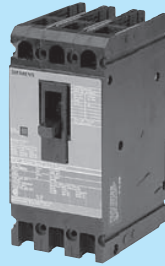
### Sentron ED Breakers

#### Selection and ordering data

	240V	480V	600V
ED2	10KAIC	—	—
ED4	65KAIC	18KAIC	—
ED6	65KAIC	25KAIC	18KAIC

1-, 2- & 3-pole up to 125A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

Information	Page
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### Sentron HED/CED Breakers

#### Selection and ordering data

	480V	600V
HED4	42KAIC	—
CED6	200KAIC	100KAIC

1-, 2- & 3-pole up to 125A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

Information	Page
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### Sentron FD Breakers

#### Selection and ordering data

	480V	600V
FD6	35KAIC	22KAIC
HFD6	65KAIC	25KAIC
HHFD6	100KAIC	25KAIC
CFD6	200KAIC	100KAIC

2- & 3-pole up to 250A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

Information	Page
General Data	17/66-17/67
Internal Accessories	17/68
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## 600V Circuit Breakers



### Sentron JD Breakers

#### Selection and ordering data

	240V	480V	600V
JD2	65KAIC	—	—
JD6, SJD6-A	65KAIC	35KAIC	25KAIC
HHJD6	200KAIC	100KAIC	50KAIC
CJD6, SCJD6-A	200KAIC	150KAIC	100KAIC
HJD6, SHJD6-A	100KAIC	65KAIC	35KAIC

2- & 3-pole up to 400A for circuit protection up to 600 volt circuits (UL/CSA)

Information	Page
General Data	17/69-17/71
Internal Accessories	17/72
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### Sentron LD Breakers

#### Selection and ordering data

	480V	600V
LD6, SLD6-A	35KAIC	25KAIC
HLD6, SHLD6-A	65KAIC	25KAIC
HHLD6	100KAIC	50KAIC
CLD6, SCLD6-A	150KAIC	100KAIC

2- & 3-pole up to 600A for circuit protection up to 600 volt circuits (UL/CSA)

Information	Page
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### Sentron LMD Breakers

#### Selection and ordering data

	480V	600V
LMD6	50KAIC	25KAIC
HLMD6	65KAIC	50KAIC

2- & 3-pole up to 800A for circuit protection up to 600 volt circuits (UL/CSA)

Information	Page
General Data	17/77-17/78
Internal Accessories	17/79
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# General Application Molded Case Circuit Breakers

## Catalog Numbering System

### Selection/Application

If used on 250A frame and above means non-interchangeable trip breaker with factory assembled frame and trip. Solid state trip and current limiting (S or C in first character) are non-interchangeable only, and the "X" is omitted.

#### Trip Unit Type

- Omitted — Thermal-Magnetic
- S — Sensitrip® Electronic Trip

#### Sentron Series Type/Interrupting Range

- Omitted — Standard Rating
- H — High IC Rating
- HH — Extra High IC Rating
- C — Highest IC Rating and Current Limiting

#### Frame Identifier

- |               |             |
|---------------|-------------|
| E — Type ED   | M — Type MD |
| F — Type FD   | N — Type ND |
| J — Type JD   | P — Type PD |
| L — Type LD   | R — Type RD |
| LM — Type LMD |             |

#### Maximum Voltage

- 2 — 240 Vac
- 4 — 480 Vac
- 6 — 600 Vac

#### Number of Poles

- 1
- 2
- 3
- 9 used to indicate the max. functions for an electronic trip circuit breaker (always 3 poles)

#### (Specific Application Type)

- B — Standard 40°C Breaker
- M — Calibrated for 50°C Application
- F — Frame Only
- T — 40°C Trip Unit Only
- W — 50°C Trip Unit Only
- S — Molded Case Switch
- L — Low Instantaneous Range ETI Breaker
- A — Standard Range ETI Breaker
- H — High Instantaneous Range ETI Breaker

#### Maximum Continuous Current Rating

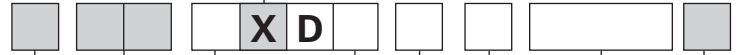
- ED Frame — 015, 020, 025, 030, 035, 040, 045, 050, 060, 070, 080, 090, 100, 110, 125
- FD Frame — 070, 080, 090, 100, 110, 125, 150, 175, 200, 225, 250
- JD Frame — 200, 225, 250, 300, 350, 400
- LD Frame — 250, 300, 350, 400, 450, 500, 600
- LMD Frame — 500, 600, 700, 800
- MD Frame — 500, 600, 700, 800
- ND Frame — 900, 100 (1000A), 120 (1200A)
- PD Frame — 120 (1200A), 140 (1400A), 160 (1600A)
- RD Frame — 160 (1600A), 180 (1800A), 200 (2000A)

#### Suffix

- L — where applicable indicates a breaker shipped with line/load lugs installed
- A — used with a switch to show automatic self protection
- Y — 400 Hertz
- H — 100% rated
- P — Load side lugs only

#### NOTE:

- Position omitted if not used.



# Sentron Molded Case Circuit Breakers

## Accessories

• Revised •  
07/20/14

### Selection

Type FXD6-A <sup>①⑦</sup>		Blue Label	
Non-Interchangeable Trip (Assembled Circuit Breaker – Without Lugs)			
Continuous Current Rating @ 40°C	2-Pole		3-Pole
	Catalog Number		Catalog Number
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 w/Lugs	Frame Only	Trip Unit Only
	Catalog Number	Catalog Number	Catalog Number

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

Continuous Current Rating @ 40°C	Catalog Number	Frame Only	Trip Unit Only
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>③</sup>

Continuous Current Rating @ 40°C	Catalog Number	Frame Only	Trip Unit Only
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			
					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	—	—
HFXD6 <sup>⑤</sup> , HFD6 <sup>⑤</sup>	100	65	25	30 (2-P)	25 (3-P)	100	50	65	33	—	—
HHFD6 <sup>⑤</sup> , HHFXD6 <sup>⑤</sup>	200	100	25	—	—	—	—	—	—	—	—
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	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 7-91 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 without 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 7-91.  
**400 Hz Applications** see page 7-91.

### Lugs For 75°C Wire<sup>⑤</sup>

Catalog Number	Wire Range
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
1	F6N1S(F)
3R	F6N3R
4-4X	FD6SS4
7-9	EC2
12	F6N12
Neutral <sup>⑥</sup>	N250

Modifications page 7-91  
Enclosures Section 6  
Accessories pages 7-50 and 7-95 to 7-100

- 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 7-4, 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 7-88.
- 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

## LMD 800A Frame Sentron Series

### Selection/Dimensions

#### Type LMXD6<sup>①④</sup>

Blue Label

Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs)		
Continuous Current Rating @ 40°C	2-Pole (3-Pole Width) Catalog Number	3-Pole Catalog Number
500	—	LMXD63B500■
600	LMXD62B600■	LMXD63B600
700	LMXD62B700■	LMXD63B700
800	LMXD62B800	LMXD63B800

#### Type LMD6<sup>④</sup>

Blue Label

Interchangeable Trip			
Continuous Current Rating @ 40°C	Complete Breaker Unassembled w/Lugs	Frame Only	Trip Unit Only
	Catalog Number	Catalog Number	Catalog Number

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

500	LMD62B500■	LMD62F800■	LMD62T500■
600	LMD62B600■		LMD62T600■
700	LMD62B700■		LMD62T700■
800	LMD62B800■		LMD62T800■

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

500	LMD63B500■	LMD63F800	LMD63T500■
600	LMD63B600■		LMD63T600■
700	LMD63B700■		LMD63T700■
800	LMD63B800		LMD63T800

#### Instantaneous Adjustment Trip Range

Ampere Rating	Nominal Instantaneous Values							
	Low +/- 20% Tolerance	2	3	4	5	6	7	High +/- 20% Tolerance
500-600	3000	3430	3860	4290	4710	5140	5570	6000
700-800	3200	3500	3700	4200	4700	6400	7300	8000

#### Ordering Information

##### Complete Breaker Unassembled with Lugs

Prices of LMD6 and HLMXD6 breakers include frame, trip, and both line and load lugs (TA3K500). These catalog numbers include the frame, trip and lugs separately packaged. For applications requiring different lugs, order individual items as needed.

##### Complete Breaker Assembled without Lugs

Prices of LMXD6 and HLMXD6 include frame with non-interchangeable trip unit installed only. Order required lugs separately. For line and load lugs (TA3K500) installed, add suffix "L" to catalog number (add 2 times list price of lugs for each pole).

**50°C Applications** see page 17/104.

**400Hz Applications** see page 17/104.

#### Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.)
<b>LMD6, HLMXD6, LMXD6, HLMXD6 Complete Breaker (less terminals)</b>		
2	1	53
3	1	61.5
<b>LMD6, HLMXD6 Frame Only</b>		
2	1	42.25
3	1	46
<b>LMD6, HLMXD6 Trip Unit Only</b>		
2	1	4.5
3	1	6.5

#### Lugs<sup>③</sup> for 75°C Wire

Catalog Number	Cables per Lug	Wire Range
TA2K500	1, 2	#1-500 kcmil Cu/Al
TA3K500	1-3	#1/0-500 kcmil Cu/Al
TA2N750	1, 2	500-750 kcmil Cu/Al

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

① LMXD6 circuit breakers are UL Listed for reverse connected applications.

② When wired as shown on page 17-5, this circuit breaker is UL listed and rated for use on 500VDC ungrounded UPS systems only.

③ See **Note: A**, page 17/101.

④ HACR rated.

Modifications page 17/104  
Accessories pages 17/79 and 17/108 to 17/113

# Lug information

## Aluminum Body Lugs for Copper or Aluminum Wire

• Revised •  
10/18/15

### Selection

For Use With Type(s)	Circuit Breaker Ampere Rating	Cables Per Lug	Lug Wire Range	Catalog Number
QR2, QR2H, HQR2, HQR2H	100-250	1	#3 - 1/0 Al/Cu 2/0 AWG - 300 Kcmil	3TA1QR300
All 2, 3-pole ED2, ED4, ED6, ED6 ETI, HED4, HHED6	15-25	1	#14-#10 AWG (Cu) #12-#10 AWG (Al)	SA1E025
	30-100	1	#10-#1/0 (Cu or Al)	LN1E100
	110-125	1	#3-3/0 (Cu) #1-2/0 (Al)	TA1E6125
CED6 All 1-pole ED, HED	30-60	1	#10-4 (Cu or Al)	LD1E060 (Load Side)
	70-100	1	#4-#1/0 (Cu or Al)	LD1E100 (Load Side)
FXD6-A, FD6-A, HFD6, CFD6 HHFD6	70-250	1	#6 AWG-350 kcmil (Cu) #4 AWG-350 kcmil (Al)	TA1FD350A
SJD6(A), SHJD6(A) SCJD6	65-200	1-2	#4 AWG-3/0 (Cu or Al)	TA2J630
JXD2(A), JXD6(A), JD6(A), SJD6(A), HJD6(A), HJXD6(A) HHJXD6, HHJD6, SHJD6(A), CJD6, SCJD6	200-400	1-2	3/0-500 kcmil (Cu) 4/0-500 kcmil (Al)	TA2J6500
LXD6(A), LD6(A), SLD6(A), HLD6(A), HLXD6(A), HHLXD6, HHLD6, SHLD6(A), CLD6, SCLD6	250-600	1-2	3/0-500 kcmil (Cu) 4/0-500 kcmil (Al)	TA2J6500
LMD6 <sup>①</sup> , LMXD6 <sup>①</sup> , HLMd6 <sup>①</sup> , HLMXD6 <sup>①</sup> , MD6, MXD6, SMD6, HMD6, HMXD6, SHMD6, CMD6, SCMD6	500-600	1-2	#1-500 kcmil (Cu or Al)	TA2K500
		1-3	1/0-500 kcmil (Cu or Al)	TA3K500
	500-800	1-2	500-750 kcmil (Cu or Al)	TA2N750 <sup>②</sup>
ND6, NXD6, SND6, HND6, HNXD6, SHND6, CND6, SCND6	800-1200	1-4	250-500 kcmil (Cu or Al)	2TA4P8500 <sup>③④</sup> 3TA4P8500 <sup>③④</sup>
			250-500 kcmil (Cu or Al)	2TA4N8500 <sup>③</sup> 3TA4N8500 <sup>④</sup>
PD6, HPD6, CPD6 PXD6, HPXD6, SPD6, SHPD6	1200-1600	1-5	300-600 kcmil (Cu or Al)	TA5P600
PD6, PXD6, HPD6, HPXD6, SPD6, SHPD6, RD6, RXD6, HRD6, HRXD6, STD	1200-2000	1-6	300-600 kcmil (Cu or Al)	TA6R600

①Use TA2K500 or TA3K500 only.

②Used for 100% rated MD/ND frame breakers.  
Rated for 90° C cable.

③Contains 2 connectors plus 1 NDTs end barrier.

④Contains 3 connectors plus 1 NDTs end barrier.