# Ordering

In the FD through RD frames, you may order molded case circuit breakers three basic ways:

- As separately ordered frames, trip units and lugs
- As frame, trip unit and lugs ordered as one catalog number and shipped unassembled or assembled
- As Frame and Trip Unit shipped assembled and with the trip unit made non-removable, in compliance with UL 489 requirements that to be reverse fed the circuit breaker must not have an interchangeable trip unit.

These two options are described in the following:

#### **Components Ordered Separately**

To get the components for a 3-pole, 400 Amp standard interrupting circuit breaker, you would order the frame (JD63F400), the trip unit (JD63T400) and six lugs (TA2J6500). This option is normally useful only if you stock and use large volumes of product and wish to reduce your inventory cost. You may stock, for example, a smaller number of frames (JD63F400) and a variety of trip units (JD63T300, JD63T350, etc.) and assemble breakers as you need them.

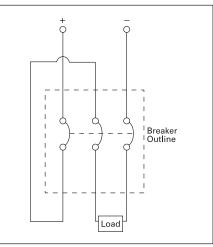
#### Frame, Trip Unit and Lugs Ordered Together

If you order the catalog number JD63B400, you will receive a frame, a trip unit and 6 lugs in separate packages. By suffixing this number with "L" (e.g. JD63B400L), you will receive frame, trip unit and lugs assembled in one container. Pursuant to UL 489, a product ordered thus will have the markings "LINE" and "LOAD", and may not be "reverse fed" (with power flowing from the "OFF" end of the breaker toward the "ON" end).

### Non-Interchangeable Trip Breakers

If you place an "X" after the frame size designator (e.g. JXD63B400), you will receive a frame and trip unit assembled, with the trip unit made non-removable. If you suffix an "L" to this catalog number (e.g. JXD63B400L), you will receive the breaker, non-removable trip unit and lugs assembled. Unless you anticipate a specific need to change the breaker's ampere rating in the future, this is the preferred ordering method, as the products are assembled to Siemens' specifications in our factories. These breakers are suitable for use reverse fed according to UL 489, since the trip unit is not removable.

The smaller frames (QJ, ED and below) do not have removable trip units, and consequently are shipped only as assembled products. To add lugs, see the ordering instructions on each product's catalog page.

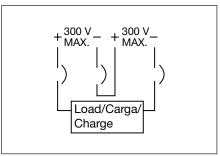


500V DC Wiring Configuration

# Connecting Breakers for DC Application

Most Siemens thermal magnetic trip MCCBs are applicable on direct current (dc) systems. Generally, for 250 V dc systems a two pole breaker is used, with one pole on each leg of the supply circuit. For three pole breakers applied on 500 V undergrounded DC systems, it is important to connect the power supply "zig-zag" through the breaker as shown in the figure below. This assures that the Voltage between phases on the breaker terminals is uniformly distributed.

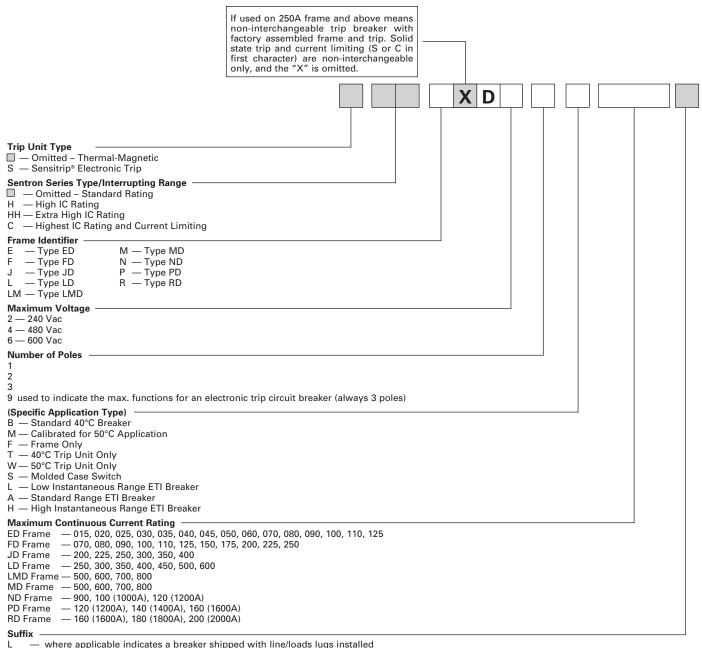
See below for an alternative connection diagram. For a list of Sentron breakers with the DC ratings, please refer to pages 7-11 to 7-16.



# Sentron Molded Case Circuit Breakers

#### **Catalog Numbering System**

Selection/Application



- used with a switch to show automatic self protection Α
- 400 Hertz Y
- 100% rated н
- Load side lugs only P
- NAV Navel Ratings

#### NOTE:

MOLDED CASE UIT BREAKERS

CIRCU

Position omitted if not used.

# **Molded Case Circuit Breakers**

### JD 400A Frame Sentron Series

Type HJD6-A, HJXD6-A <sup>@@</sup> €			Black Label
Interchangeable Trip			
Continuous Current Rating	Complete Breaker Unassembled w/Lugs	Frame Only	Trip Unit Only
@ 40°C	Catalog Number	Catalog Number	Catalog Number
2-Pole 600V AC, 250V DC (3-Pole Width)			
200	HJD62B200■		JD62T200
225	HJD62B225		JD62T225
250	HJD62B250	HJD62F400	JD62T250
300	HJD62B300		JD62T300
350	HJD62B350		JD62T350
400	HJD62B400		JD62T400
3-Pole 600V AC, 500V DC <sup>025</sup>			
200	HJD63B200		JD63T200
225	HJD63B225		JD63T225
250	HJD63B250	HJD63F400	JD63T250
300	HJD63B300		JD63T300
350	HJD63B350		JD63T350
400	HJD63B400		JD63T400

# Type HHJD6, HHJXD6246

200	HHJD62B200■		JD62T200
225	HHJD62B225		JD62T225
250	HHJD62B250	HHJD62F400■	JD62T250∎
300	HHJD62B300		JD62T300
350	HHJD62B350		JD62T350
400	HHJD62B400		JD62T400
ole 600VA	NC		
200	HHJD63B200		JD63T200
225	HHJD63B225		JD63T225
250	HHJD63B250	HHJD63F400	JD63T250
300	HHJD63B300		JD63T300
350	HHJD63B350		JD63T350
400	HHJD63B400		JD63T400

# Type CJD6-A 56

MOLDED CASE CIRCUIT BREAKERS

Fuseless Current Limiting		Red Label	
Non-Interchangeable Trip (Assembled Circuit Breaker Without Lugs)			
Continuous Current Rating	2-Pole 600V AC/250V DC	3-Pole 600V AC/500V DC	
@ 40°C	Catalog Number	Catalog Number	
200		CJD63B200	
225		CJD63B225	
250	For 2-pole application use outside poles of 3-pole circuit breaker	CJD63B250	
300		CJD63B300	
350		CJD63B350	
400		CJD63B400	



### Dimensions (in inches)

Breaker Type	w	L	D	To Handle D1
Figure 1 JXD2-A, JXD6-A, JD6-A HJD6-A, HJXD6-A, HHJD6, HJD6, HJXD6, HHJXD6, JXD6-ETI, <sup>®</sup> SJD6, SHJD6	7.5	11	4	5.44
Figure 2 CJD6, CJD6-ETI, <sup>®</sup> SCJD6	7.5	17.86	4	5.44

## Enclosures (Except SCJD6)

Туре	Catalog Number
1	J6N1
3R	J6N3R
12	J6N12
4X	LD6SS4
7, 9 (200-250A)	EC4
7, 9 (300-400A)	EE
Neutral	W60992

### Shipping Weights

-		
Number per Carton	Shipping Weight (lbs.)	
JXD2, JXD6, JD6, HJD6, HHJD6 Assembled Breaker (less terminals)		
1	17.5	
1	19.5	
JD6, HJD6, HHJD6 Frame Only		
1	14	
1	15.5	
JD6 Trip Unit Only		
1	3.5	
1	4	
CJD6 Complete Assembled Breaker (less terminals)		
1	31.5	
	Carton JD6, HJD6, HHJI reaker (less term 1 HJD6 Frame Onl 1 1 Only 1 1 te Assembled Br	

#### For inches / millimeters conversion, see Application Data section.

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

2-pole units available in 3-pole construction.

<sup>①</sup>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.

<sup>®</sup> For non-interchangeable 3-pole HJD6 or HHJD6 type circuit breaker change the prefix identifier to HJXD6 or HHJXD6. Price equals price of frame plus price of trip, e.g. price of HJXD63B400 equals price of HJD63F400 plus price of JD63T400. Order lugs construction. separately.

Black Label

JXD6-ETI, CJD6-ETI see page 7-74 for ordering information.
Type HJXD6, HHJXD6 Circuit Breakers are UL listed for

reverse fed applications.

© CE applies to non-interchangeable type HJXD6-A only. © HACR rated.