Molded Case Circuit Breakers

Introduction

What's New?

Siemens Energy & Automation is proud to announce several new products. These new concepts serve the OEM and power distribution markets.

WL Power Circuit Breakers



It's the Circuit Breaker that changes everything! And it's armed with a full array of competitive advantages:

- Reliable increased operations and better than 1% metering accuracy
- Compact smallest switchgear footprint in the industry
- Easy to Use straightforward catalog numbers & selection tools
- Modular drop-in, front-mounted accessories & field changeable main contacts
- System Solution Internet/Ethernet, Modbus and Profibus communications
- Safety customized interlocking and unique status indicators

Specifications and Applications:

- Standards: UL489, UL1066 and ANSI C37
- Frame Ratings: 800A to 5000A
- Rated Nominal Voltages: 240, 480 and 600VAC
- Interrupting Ratings: from 50KA to 150KA un-fused and 200KA fused
- Assemblies: Fixed mounted, draw-out Circuit Breaker or Non-automatic Switch
- Applicable for all ICCB or RL Breaker applications

The WL Circuit Breaker may be new to North America, but it has already been proven in the field – with two years of flawless performance in Europe. No other product on the market today offers more flexibility or greater reliability.

Sentron Distribution Lug



Distribution lugs are now available for use with Siemens Sentron E, F, J and L-frame circuit breakers. These lugs are UL 486-B recognized and are ideal for UL 508 control panel applications to replace a distribution block. Using the Sentron distribution lugs can reduce the need for extra wire stripping. They also reduce the use of extra crimp connectors going between the circuit breaker and distribution block.

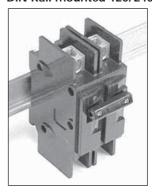
CE Marking

A wide range of Sentron® thermal magnetic circuit breakers has been fully tested for compliance with the European community's Low Voltage Directive, and carry the CE mark, indicating their compliance with that directive. These are noted in the Speedfax with the stylized CE in watermark behind the catalog numbers. Declarations of conformity are available for these products. A point of misunderstanding lies in the area of handle operators. A handle operator alone, such as that for the Max-flex, since there is no applicable European Directive, may not carry the CE mark. The mark is affixed to the finished equipment that incorporates the handle, but not to this component device.

PLC Level Auxiliary Switches

A new family of gold flashed auxiliary switches for the FD through ND breakers allows sensing at very low voltage and currents for interface directly to programmable logic controllers and other electronic devices. Standard contacts, built to switch 120 Volts and higher currents can be unreliable when the sensing current is in the milliamp range, and the sensing voltage is 12 Volts or lower. These very reliable low level switches overcome that limitation. Standard switch contacts should, of course, continue to be used in standard current and voltage applications.

DIN Rail mounted 120/240 V Breaker



The Siemens BQ breakers are now available in 1- and 2-pole construction, from 15 to 60 Amps in lug in – lug out DIN rail mounted configuration. These breakers, rated 120/240 Volts, are ideal for applications in control panels and HVAC, and with their available finger safe terminal shields can qualify as service disconnects.

NGG Type 125A Frame Circuit Breaker



The new NGG Circuit Breaker is a compact, industrial design with true value-added features such as Global Ratings (UL/CSA/IEC/CE/NOM), flexible DIN or base mounting without the need for adapters and UL Listed for field install-able accessories. This NGG125 has a 25KAIC interrupting rating at 480VAC and features a Quick Make/Quick Break Trip-free Mechanism. All this in a 3.0W x 5.4H x 2.8D package. Please consult your sales office for availability.

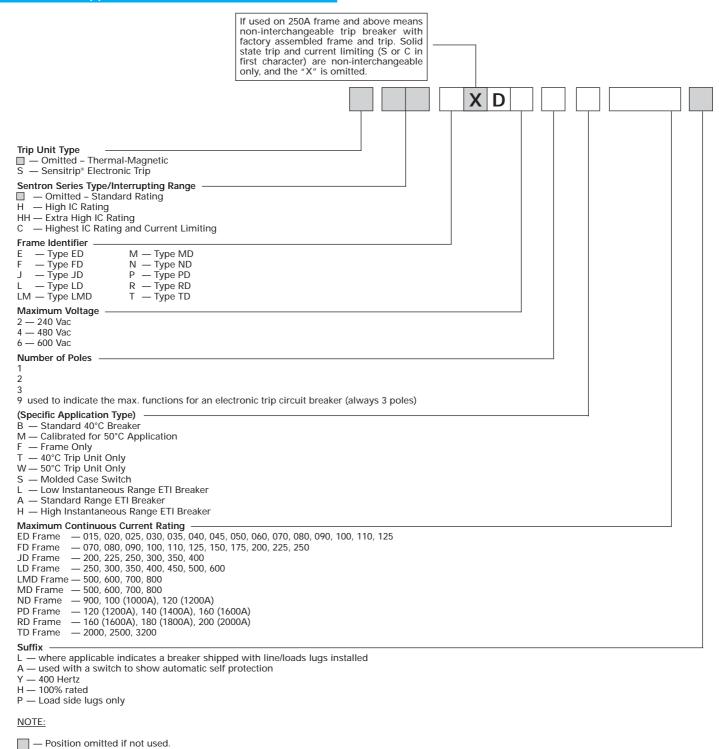
HID Lighting Breakers

Siemens BQD and CQD circuit breakers have been tested and approved for use in switching HID lighting. One, two and three pole breakers from 15A to 50A are now approved and marked for use in these high energy lighting systems where the breakers is used to directly control the lighting in 120VAC, 240VAC, 277AC or 480/277VAC circuits.

Molded Case Circuit Breakers

Catalog Numbering System

Selection/Application



Molded Case Circuit Breakers

JD 400A Frame Sentron Series

Selection

Type JXD2-A®

240V AC, 2-Pole 250V DC Only

Blue Label

Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs)								
Continuous	2-Pole (3 Pole \	2-Pole (3 Pole Width)						
Current Rating @ 40°C	Catalog Number	List Price \$	Catalog Number	List Price \$				
200	JXD22B200■		JXD23B200					
225	JXD22B225 ■		JXD23B225					
250	JXD22B250 ■		JXD23B250					
300	JXD22B300		JXD23B300					
350	JXD22B350 ■		JXD23B350					
400	JXD22B400		JXD23B400					

Type JXD6-A 05

600V AC, 2-Pole 250V DC, 3-Pole 500V DC²

Blue Label

Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs)							
200	JXD62B200 ■	JXD63B200					
225	JXD62B225 ■	JXD63B225					
250	JXD62B250■	JXD63B250					
300	JXD62B300	JXD63B300					
350	JXD62B350■	JXD63B350					
400	JXD62B400	JXD63B400					

Type JD6-A®

Blue Label

Interchangeable Trip								
Continuous	Complete Breaker Unassembled with Lugs		Frame Only		Trip Unit Only			
Current Rating @ 40°C	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$		

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

200	JD62B200 ■		JD62T200 ■
225	JD62B225 ■		JD62T225 ■
250	JD62B250 ■	ID/25400	JD62T250 ■
300	JD62B300 ■	JD62F400	JD62T300 ■
350	JD62B350■		JD62T350 ■
400	JD62B400		JD62T400

3-Pole 600V AC, 500V DC²

200 225 250 300 350 400	JD63B200 JD63B225 JD63B250 JD63B300 JD63B350 JD63B400	JD63F400	JD63T200 JD63T225 JD63T250 JD63T300 JD63T350
400	JD63B400		JD63T400

Interrupting Ratings

	RMS Symmetrical Amperes (KA)													
	UL 489	UL 489 AIR (File E10848)					IEC 947-2							
	Volts A	C		Volts DC		Volts	AC (50/60	Hz)		00			
Breaker	(50/601	(50/60Hz)				220/	240	380/	415	500				
Туре	240	480	600	250	500 ^②	lcu	lcs	lcu	Ics	lcu	Ics			
JXD2-A	65	_	_	30 (2-P)	_	_	_	_	_	_	—			
JXD6-A, JD6-A	65	35	25	30 (2-P)	25 (3-P)	65	33	40	20	30	15			
HJD6-A, HJXD6-A	100	65	35	30 (2-P)	35 (3-P)	100	50	65	33	42	21			
HHJD6, HHJXD6 [®]	200	100	50	_	_	200	100	100	50	65	33			
CJD6-A	200	150	100	_	50 (3-P)	_	_	_	_	_				

Instantaneous Adjustment Trip Range

	J		1	J -					
	Nominal Instantaneous Values								
Breaker Ampere Rating	±20% Tolerance Low	2	3	4	5	6	7	±20% Tolerance High	
200-300	1250	1430	1610	1790	1960	2140	2320	2500	
350-400	2000	2290	2570	2860	3140	3430	3710	4000	

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

Type JXD2 and JXD6 circuit breakers are UL Listed for reverse feed applications.

®When wired as shown on page 17/3, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only. See Note: A, page 17/67.

 HHJD6 type circuit breakers meet the UL criteria for "current limiting" at 240 and 480V AC.

 $\label{eq:hack rated} \textcircled{s} \ \mathsf{HACR} \ \mathsf{rated}.$

Note: JD frame qualified to UL489 supplement B "NAVAL." See page 17/70 for additional information.

Ordering Information

Complete Breaker Unassembled with Lugs

Prices of JD6, HJD6, and HHJD6 breakers include frame, trip and both line and load lugs (TA2J6500). 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 JXD6, HJXD6, HHJXD6, and CJD6 include frame with non-interchangeable trip unit installed only. Order required lugs separately. For line and load lugs (TA2J6500) installed, add suffix "L" to catalog number (add 2 times list price of lugs for each pole).

100% Rated

Types JXD6 and HJXD6 breakers are available with 100% ratings. To order add suffix "H" to catalog number, and 10% to list price.■ 100% rated JD breakers require the use of 90°C Cu cable and lugs TC1J6600 or TC2J6500.

50°C Applications see page 17/70. **400Hz Applications** see page 17/70.

Lugs For 75°C Wire®

Cables per Lug	Wire Range	List Price \$
1, 2	#3/0-500 kcmil Cu	
2	#4/0-500 kcmil Al	
1	250-500 kcmil Al	
1	500-750 kcmil Al	
1	500-600 kcmil Cu	
1	#3/0-600 kcmil Cu	
1, 2	#3/0-500 kcmil Cu	
on Lug		
1	500 kcmil Cu/Al	
	per Lug 1, 2 2 1 1 1 1 1, 2	per Lug Wire Range 1, 2 #3/0-500 kcmil Cu #4/0-500 kcmil Al 2 #4/0-500 kcmil Al 1 500-750 kcmil Al 1 500-600 kcmil Cu 1 #3/0-600 kcmil Cu 1, 2 #3/0-500 kcmil Cu n Lug

Modifications page 17/70 Accessories pages 17/29 and 17/71 to 17/77