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.

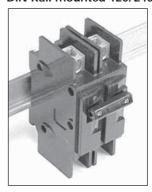
CE Marking

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.

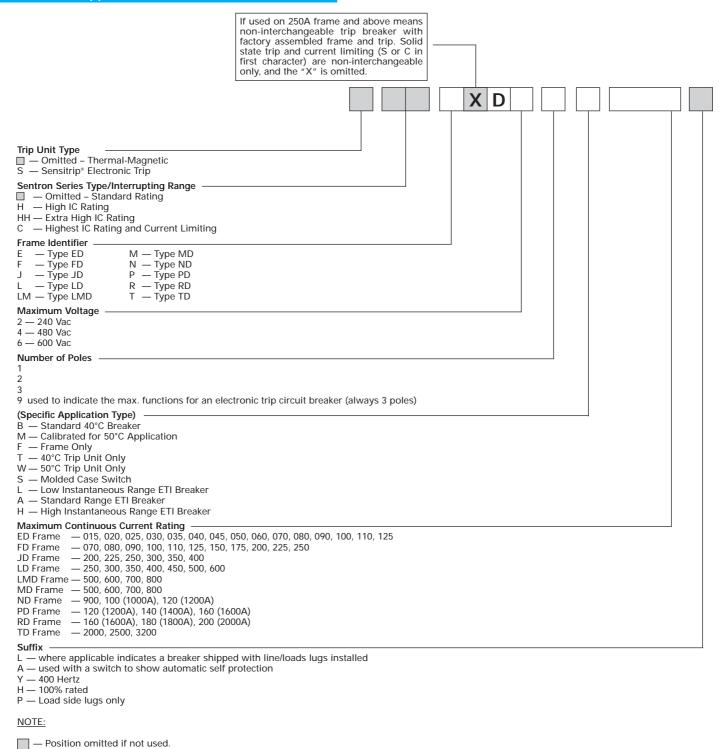
HID Lighting Breakers

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



Circuit Breakers Lug-In/Lug-Out with INSTA-WIRE

Selection

All BQ/BQH/HBQ circuit breakers are supplied with load side lugs. If line side lugs are required, add suffix "L" to catalog number. Lugs will be supplied at no charge if ordered with the circuit breaker. All standard circuit breakers are calibrated for 40(insert degree symbol)C maximum ambient application.

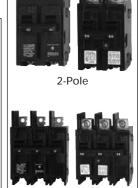
1-Pole Plug-In (120V AC)⁽¹⁾⁽⁵⁾

	Type BQ		Type BQH		Type HBQ	
Continuous	10,000A IR		22,000A IR		65,000A IR	
Current Rating @ 40° C	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
10	BQ1B010		_		_	
15	BQ1B015 [®]		BQ1B015H [®]		HB1B015 ■ ^④	
20	BQ1B020 ⁴		BQ1B020H [@]		HB1B020■ ^④	
25	BQ1B025		BQ1B025H■		HB1B025■	
30	BQ1B030		BQ1B030H		HB1B030■	
35	BQ1B035■		BQ1B035H ■		HB1B035■	
40	BQ1B040		BQ1B040H		HB1B040■	
45	BQ1B045■		BQ1B045H■		HB1B045■	
50	BQ1B050		BQ1B050H		HB1B050■	
60	BQ1B060 ■		BQ1B060H■		HB1B060■	
70	BQ1B070■		BQ1B070H ■		HB1B070■	



2-Pole Plug-In (Common-Trip 120/240V AC) 100

110 125	BQ2B110 BQ2B125	BQ2B110H BO2B125H	HB2B110■ HB2B125	
100	BQ2B100	BQ2B100H	HB2B100	
90	BQ2B090	BQ2B090H ■	HB2B090■	
80	BQ2B080	BQ2B080H ■	HB2B080	
70	BQ2B070	BQ2B070H ■	HB2B070■	
60	BQ2B060	BQ2B060H	HB2B060 ■	
50	BQ2B050	BQ2B050H	HB2B050 ■	
45	BQ2B045	BQ2B045H ■	HB2B045■	
40	BQ2B040	BQ2B040H	HB2B040 ■	
35	BQ2B035	BQ2B035H■	HB2B035■	
30	BQ2B030	BQ2B030H	HB2B030■	
25	BQ2B025	BQ2B025H■	HB2B025■	
20	BQ2B020	BQ2B020H	HB2B020■	
15	BQ2B015	BQ2B015H	HB2B015■	
10	BQ2B010	_		



3-Pole

2-Pole Plug-In (Common-Trip 240V AC)⁰³⁶

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15	BQ2H015	_	_	_	_
20	BQ2H020		_	_	_
30	BQ2H030		_	_	_
40	BQ2H040 ■		_	_	_
50	BQ2H050		_	_	_
60	BQ2H060	-	_	_	_
70	BQ2H070■	-	_	_	_
80	BQ2H080 ■	-	_	_	_
90	BQ2H090 ■	-	_	_	_
100	BQ2H100■	_	_	_	_

3-Pole Plug-In (Common-Trip 240V AC)¹⁾⁽²⁾

or ordering in tooming			
10	BQ3B010	_	_
15	BQ3B015	BQ3B015H	HB3B015 ■
20	BQ3B020	BQ3B020H	HB3B020■
25	BQ3B025■	BQ3B025H■	HB3B025
30	BQ3B030	BQ3B030H	HB3B030
35	BQ3B035■	BQ3B035H	HB3B035
40	BQ3B040	BQ3B040H	HB3B040
45	BQ3B045■	BQ3B045H	HB3B045
50	BQ3B050	BQ3B050H	HB3B050
60	BQ3B060	BQ3B060H	HB3B060
70	BQ3B070	BQ3B070H	HB3B070■
80	BQ3B080	BQ3B080H ■	HB3B080■
90	BQ3B090	BQ3B090H■	HB3B090■
100	BQ3B100	BQ3B100H	HB3B100

MP-T / MP-HT / MP-MT Accessories

Description	Catalog Number	Field/Factory Installed	List Price \$
120V Shunt Trip	add suffix00S01■	Factory	
24V Shunt Trip	add suffix00S07■	Factory	
120V Auxiliary Switch	add suffix01	Factory	
1-Pole Padlocking Device	ECPLD1	Field	
2-Pole Padlocking Device	ECPLD2	Field	
3-Pole Padlocking Device	ECQLD3	Field	
Handle Block	ECQL1	Field	

Factory Modifications

Description	Catalog Number	List Price \$
Ring Terminal	add suffixC	
Line Side Lugs	add suffixL	
Quick Connect Lug	add suffixQX	
400Hz Calibration	add suffixY [®]	
415V 50Hz Calibration	add suffixE 900	
Marine 50° C Ambient Calibration	add suffixM ®	
Fungus Proofing	add suffixF	

UL Listed for use with 60/75° wire through 125 amps, HACR rated. 120V AC Fluorescent Lighting.
 1A and 1B contacts.
 UL Listed for use on 3 phase grounded "B" systems —

^{10,000} for this application.

© UL Listed for frequent switching applications (SWD).

© Shipped 12 per sleeve.

© Shipped 6 per sleeve.

<sup>Shipped 4 per sleeve.
UL Listed 5KA IR.
Not UL Listed.
1 & 2 Poles only.</sup>

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

Molded Case Circuit Breakers JD 400A Frame Sentron Series

Selection

Type HJD6-A, HJXD6-A²4³6

Black Label

Black Label

Red Label

Interchangeable Trip						
Continuous	Complete Breat Unassembled v		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)

200 225 250 300 350 400	HJD62B200 HJD62B225 HJD62B250 HJD62B300 HJD62B350 HJD62B400	HJD62F400 ■		JD62T220■ JD62T225■ JD62T250■ JD62T300■ JD62T350■ JD62T400	
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3-Pole 600V AC, 500V DC 125

200	HJD63B200		JD63T200
225	HJD63B225		JD63T225
250	HJD63B250	1110/25400	JD63T250
300	HJD63B300	HJD63F400	JD63T300
350	HJD63B350		JD63T350
400	HJD63B400		JD63T400

Type HHJD6, HHJXD6@@@

2-Pole 600V AC (3 Pole Width)

200	HHJD62B200■		JD62T200■	
225	HHJD62B225■		JD62T225 ■	
250	HHJD62B250■	HHJD62F400■	JD62T250 ■	
300	HHJD62B300■	HHJD62F400	JD62T300■	
350	HHJD62B350■		JD62T350■	
400	HHJD62B400■		JD62T400	
			1	

3-Pole 600VAC

200	HHJD63B200		JD63T200
225	HHJD63B225		JD63T225
250	HHJD63B250	HHJD63F400	JD63T250
300	HHJD63B300	HHJD63F400	JD63T300
350	HHJD63B350		JD63T350
400	HHJD63B400		JD63T400

Type CJD6-A 56

Fuseless Current Limiting

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

Figure 1 Figure 2

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, [®] SJD6, SHJD6	7.5	11	4	5.44
Figure 2 CJD6, CJD6-ETI, [®] SCJD6	7.5	17.86	4	5.44

Enclosures (Except SCJD6)

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

Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.)			
JXD2, JXD6, JD6, HJD6, HHJD6 Assembled Breaker (less terminals)					
2 3	1 1	17.5 19.5			
JD6, HJD6, HHJD6 Frame Only					
2	1	14			
3	1	15.5			
JD6 Trip Unit Only					
2	1	3.5			
3	1	4			
CJD6 Complete Assembled Breaker (less terminals)					
2	1	29.5			
3	1	31.5			

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. ① 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.

[®] 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 separately.

③JXD6-ETI, CJD6-ETI see page 17/52 for ordering information.
 ④ Type HJXD6, HHJXD6 Circuit Breakers are UL listed for reverse fed applications.

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