240V Circuit Breakers



BQ Breakers

Selection and ordering data

240V 10KAIC BQ 22KAIC **BQH** HBQ 65KAIC

1-, 2- & 3-pole up to 125A for circuit protection up to 240 volt circuits (UL)

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QJ Breakers

Selection and ordering data

240V 10KAIC QJ2 QJH-2 22KAIC QJ2-H 42KAIC HQJ2 65KAIC

2- & 3-pole up to 225A for circuit protection up to 240 voltcircuits (UL)

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600/347V Circuit Breakers



CQD Breakers

Selection and ordering data

480/277V 600/347V CQD 14KAIC CQD-6 10KAIC

1-, 2- & 3-pole up to 100A for circuit protection up to 600/347V (CSA) & 480/277V (UL) circuits

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600/347V Circuit Breakers



GG Breakers

Selection and ordering data

480V 600/347V NGG 25KAIC 14KAIC HGG 35KAIC 14KAIC LGG 65KAIC 14KAIC

1-, 2- & 3-pole up to 125A for circuit protection up to 600/347 volt circuits (UL/CSA/IEC)

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600V Circuit Breakers



DG VL Breakers

Selection and ordering data

480V 600Y/347V NDG 35KAIC 18KAIC HDG 65KAIC 18KAIC LDG 100KAIC 18KAIC

2- & 3-pole up to 150A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

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FG VL Breakers

Selection and ordering data

480V 600V NFG 35KAIC 18KAIC 65KAIC 20KAIC 100KAIC 25KAIC **HFG** LFG

2- & 3-pole up to 150A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

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Molded Case Circuit Breakers

Introduction

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.

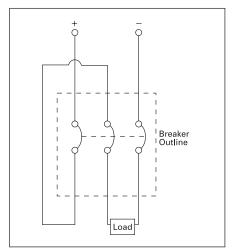
Frame, Trip Unit and Lugs Ordered Together

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.

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General Application Molded Case 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. Consult Siemens for any additional charge. All standard circuit breakers are calibrated for 40°C maximum ambient application.

Continuous Current Rating @ 40° C	Type BQ ^①	Type BQH	Type HBQ
	10,000A IR	22,000A IR	65,000A IR
	Catalog Number	Catalog Number	Catalog Number
1-Pole (120V AC) ^⑤			
15	BQ1B015 ⁴	BQ1B015H [@]	HB1B015■ ⁴
20	BQ1B020 ⁴	BQ1B020H ⁴	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 (Common-Trin 120/240V/ ΔC)⑥			

2-Pole (Common-Trip 120/240V AC) [©]			
15	BQ2B015	BQ2B015H	HB2B015■
20	BQ2B020	BQ2B020H	HB2B020■
25	BQ2B025	BQ2B025H■	HB2B025■
30	BQ2B030	BQ2B030H	HB2B030■
35	BQ2B035	BQ2B035H■	HB2B035■
40	BQ2B040	BQ2B040H	HB2B040■
45	BQ2B045	BQ2B045H■	HB2B045■
50	BQ2B050	BQ2B050H	HB2B050■
60	BQ2B060	BQ2B060H	HB2B060■
70	BQ2B070	BQ2B070H■	HB2B070■
80	BQ2B080	BQ2B080H■	HB2B080
90	BQ2B090	BQ2B090H■	HB2B090■
100	BQ2B100	BQ2B100H	HB2B100
110	BQ2B110	BQ2B110H	HB2B110■
125	BQ2B125	BQ2B125H	HB2B125

2-Pole (Common-Trip 240V AC) ^{③⑥}			
15	BQ2H015	_	_
20	BQ2H020	_	_
30	BQ2H030	_	_
40	BQ2H040■	_	_
50	BQ2H050	_	_
60	BQ2H060	_	_
70	BQ2H070■	_	_
80	BQ2H080■	_	_
90	BQ2H090■	_	_
100	BQ2H100■	_	_

3-Pole (Common-Trip 240V AC) ^⑦			
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

BQ / BQH / HBQ Internal Accessories

Description	Catalog Number	Field/Factory Installed
120V Shunt Trip	add suffix00S01■	Factory
24V Shunt Trip	add suffix00S07■	Factory
120V Auxiliary Switch	add suffix01■②	Factory

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

- ② 1A and 1B contacts.
 ③ UL Listed for use on 3-phase grounded "B" systems 10,000 for this application.
 ⑥ UL Listed for frequent switching applications (SWD). 120V AC Fluorescent Lighting.

1-Pole 2-Pole 3-Pole

Factory Modifications

Description	Catalog Number
Line Side Lugs	add suffixL
Quick Connect Lug	add suffixQX
400Hz Calibration	add suffixY ®
Marine 50° C Ambient Calibration	add suffixM
Fungus Proofing	add suffixF

For external accessories, please refer to page 17/106

① UL Listed for use with 60/75° wire through 40 amps, UL listed for use with 75° wire only for 50 amps and above, HACR rated.

Shipped 12 per sleeve.Shipped 6 per sleeve.Shipped 4 per sleeve.UL Listed 5KA IR.