

# General Application Molded Case Circuit Breakers

QJ 225A Frame

## Selection/Dimensions

Continuous Current Rating @ 40°C	2-Pole 240V AC Catalog Number	3-Pole 240V AC Catalog Number
----------------------------------	-------------------------------	-------------------------------

### Type QJ2<sup>②</sup>

Current Rating	2-Pole Catalog Number	3-Pole Catalog Number
60	QJ22B060■	QJ23B060
70	QJ22B070■	QJ23B070
80	QJ22B080■	QJ23B080■
90	QJ22B090■	QJ23B090■
100	QJ22B100	QJ23B100
110	QJ22B110■	QJ23B110
125	QJ22B125	QJ23B125
150	QJ22B150	QJ23B150
175	QJ22B175	QJ23B175
200	QJ22B200	QJ23B200
225	QJ22B225	QJ23B225

### Type QJH2<sup>②</sup>

Current Rating	2-Pole Catalog Number	3-Pole Catalog Number
60	QJH22B060■	QJH23B060■
70	QJH22B070■	QJH23B070■
80	QJH22B080■	QJH23B080■
90	QJH22B090■	QJH23B090■
100	QJH22B100■	QJH23B100
110	QJH22B110■	QJH23B110
125	QJH22B125	QJH23B125
150	QJH22B150	QJH23B150
175	QJH22B175■	QJH23B175
200	QJH22B200	QJH23B200
225	QJH22B225	QJH23B225

### Type QJ2H<sup>②</sup>

Current Rating	2-Pole Catalog Number	3-Pole Catalog Number
60	QJ22B060H■	QJ23B060H■
70	QJ22B070H■	QJ23B070H■
80	QJ22B080H■	QJ23B080H■
90	QJ22B090H■	QJ23B090H■
100	QJ22B100H■	QJ23B100H
110	QJ22B110H■	QJ23B110H■
125	QJ22B125H	QJ23B125H
150	QJ22B150H	QJ23B150H
175	QJ22B175H■	QJ23B175H
200	QJ22B200H	QJ23B200H
225	QJ22B225H	QJ23B225H

### Type HQJ2<sup>②</sup>

Current Rating	2-Pole Catalog Number	3-Pole Catalog Number
100	—	HQJ23B100▲
110	—	HQJ23B110▲
125	—	HQJ23B125▲
150	—	HQJ23B150▲
175	—	HQJ23B175▲
200	—	HQJ23B200▲
225	—	HQJ23B225▲

### QJ2

Internal Accessories (Factory installed only) (3-pole only)<sup>③</sup>  
Add suffix to catalog number.

Control Voltage		Shunt Trip	Auxiliary Switches		Shunt Trip and 1A and 1B Auxiliary Switch
AC	DC		1A and 1B	2A and 2B	
120/240		Suffix	Suffix	Suffix	Suffix
		00S01■	A01■	A02■	01S01■
	24	00S07■	A01■	A02■	01S07■
	48	00S09■	A01■	A02■	01S09■

■ Built to order. Allow 2–3 weeks for delivery.  
▲ Built to order. Allow 6–8 weeks for delivery.  
② See Note: A page 17/42.  
Note: QJ breakers are UL Listed for reverse feed applications.

③ HACR rated.  
③ Internal accessories are not available on 2-pole QJ breakers.

### Ordering Information

Load side TA1Q300 lugs are mounted and included when circuit breaker is ordered. For line and load lugs (TA1Q300) installed at no additional charge, add suffix "L" to catalog number.

50°C Calibration - See page 17/104.  
400HZ. - See page 17/104.

### Shipping Weights

QJ2, QJH2, QJ2H, HQJ2		
Number of Poles	Number per Carton	Shipping Weight (lbs.)
2	10	30
3	10	41

### Lugs For 75°C Wire<sup>①</sup>

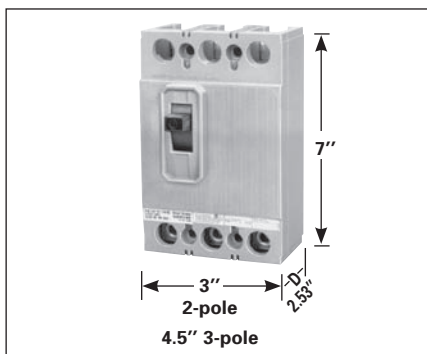
Catalog Number	Lug Body	Lug Wire Range
TA1Q300	Al	(1) #6—300 kcmil Cu (1) #4—300 kcmil Al
TC1Q250	Cu	(1) #6—250 kcmil Cu

### Enclosures (Neutral Included)

Type	Catalog Number
1	EB3225(S)(F)
3R (2-pole)	WB2225
3R (3-pole)	WB3225

### UL 489 Interrupting Ratings

Breaker Type	RMS Symmetrical Amperes (kA)	
	240 Volts AC (50/60 Hz)	208Y/120
QJ2	10	—
QJH2	22	—
QJ2H	42	—
HQJ2	65	100



For external accessories, please refer to pages 17/108 to 17/113

# Molded Case Circuit Breakers

## Modifications

### General Selection

A variety of internal and external accessories, as well as modifications, are available to adapt Siemens circuit breakers to special installation requirements. UL listed internal accessories for 100 through 2000A circuit breakers are field-addable.

Internal accessories fine tune an electrical distribution system, allowing control of the circuit breakers to meet special application requirements. For example, emergency situations may dictate tripping critically placed circuit breakers quickly. Shunt trips accomplish this conveniently and efficiently. Or, when voltage drops are a concern, undervoltage trips automatically open the circuit breaker at a predetermined voltage level.

A wide range of external operating and mounting accessories is also available. For example, face, shallow, and back mounting plates are ideal for tailoring BQ circuit breakers to OEM applications. A complete line of operating handles and handle-blocking devices meet switchboard, enclosure and safety needs. Plug-in mounting assemblies, which simplify switchboard mounting of circuit breakers and permit breaker removal without disconnecting bus or cable connections, are available.

### UL 489 Supplement SB Naval Use Breakers

Breakers tested to UL 489 Supplement SB are qualified for use on non combat and auxiliary naval vessels.

Siemens molded case breakers, including BL, NGB and Sentron ED through RD frames can be labeled "NAVAL" in compliance with UL 489 Supplement SB.

Supplement SB testing comprises two sets of vibration tests. The first is to find mechanical resonances in the product and to subject the breaker to extreme testing at each resonant frequency. The second is a swept frequency test, in which the frequency of excitation is changed in intervals of 1Hz, and held at each frequency for five minutes. The excitation frequencies run from 4 to 33Hz, and the test is conducted in each of the three orthogonal axes of the breaker.

During these tests, the breaker must not trip from the closed position, nor may the contacts touch from the open position. Calibration and insulation resistance are also verified during the test.

For detailed information, refer to UL 489, Supplement SB.

#### 50°C Ambient Calibration — Not UL listed and not available for solid state, 100% rated breakers or 400HZ calibrated breakers.

- For BL Type Circuit Breakers
  - Add suffix 'M' to catalog number  
(Example: B120M) .....No Charge
- For BQ, QJ2, and ED Frame Circuit Breakers
  - Replace 'B' in catalog number with 'M' .....No Charge  
(Example: BQ3M060, QJ23M200, ED63M060)
- For FD, JD, LD, LMD, MD, ND, PD, and RD Frame Circuit Breakers
  - Non-Interchangeable Trip (3-pole only) .....No Charge
  - Replace 'B' in catalog number with 'M'  
(Example: FXD63M225, JXD63M400)

#### 400 HZ Calibration

- UL Listed (5KA IR)
- For BQ & BL Type Circuit Breakers (200A max.) .....Add 25% to list price
  - Add suffix 'Y' to catalog number
- Not UL Listed
- For all other Circuit Breakers, see derating tables on page 6-152 and order standard circuit breakers.

#### Fungus Proofing

- All BQD, COD, GB, GG, ED, FD, JD, LD, LMD, MD, ND, PD, RD, DG, FG, JG, LG, MG, NG, and PG Frame Circuit Breakers are inherently fungus resistant and do not require special treatment.
- For BL, and BQ Type Circuit Breakers .....Add \$10.00 net per pole
  - Consult Sales Office for Availability
- For all other Circuit Breaker Types .....Add \$160.00 net per device
  - Consult Sales Office for Availability

**Certificate of Compliance with Test Report (catalog number CERT OF COMP.)** Add \$210.00 net  
 Certificate of compliance testing must be performed on the actual device being shipped.  
 The certificate cannot be provided after initial shipment. Order for devices with COC requirement must be placed directly with the factory by the sales office and shipped directly to the end user.

### Ordering Information

For "NAVAL" label, add **\$75.** net per catalog number per order.  
 Order must be placed directly with the factory by Siemens Sales Office.

Types	UL File
BQD/CQD	E10848, Vol 10, Sec 1
GG	E10848, Vol 10, Sec 2
GB	E10848, Vol 10, Sec 3
ED2, ED4, ED6, IIED4, HED6	E10848, Vol 4, Sec 11
CED6	E10848, Vol 4, Sec 13
FD6, FXD6, HFD6, HFXD6	E10848, Vol 4, Sec 17
CFD6	E10848, Vol 4, Sec 18
JXD2, JD6, JXD6, LXD6, LD6, HJD6, HJXD6, HLD6, HLXD6	E10848, Vol 4, Sec 8
HHJD6, HHJXD6, HHLD6, HHLXD6	E10848, Vol 4, Sec 20
CJD6, CLD6	E10848, Vol 4, Sec 14
MD6, MXD6, HMD6, HMXD6, CMD6, ND6, NXD6, HND6, HNXD6, CND6	E10848, Vol 4, Sec 15
PD6, PXD6, HPD6, HPXD6, CPD6, RD6, RXD6, HRD6, HRXD6	E10848, Vol 4, Sec 19