

# Molded Case Circuit Breakers

## Panelboard Mounting Circuit Breakers

*Selection*

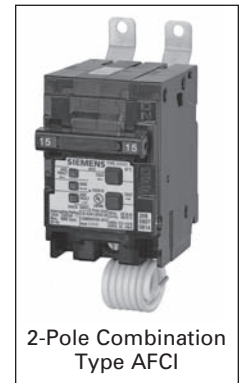
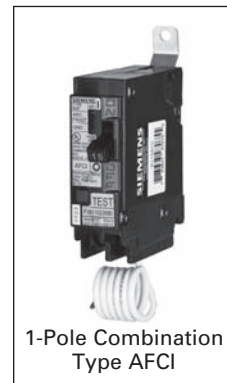
### Arc-Fault Circuit Interrupters (AFCI)

AFCI's detect arcing faults (an unintentional arcing condition in a circuit) that standard circuit breakers are unable to detect. The device is intended to mitigate the effects of arcing faults by functioning to de-energize the circuit when an arc-fault is detected.

#### Combination Type AFCI

Detects all three possible types of arc fault: line-to-ground, line-to-neutral, and series.

Breaker Type	Ampere Rating	10,000 A IR Catalog Number	22,000 A IR Catalog Number	65,000 A IR Catalog Number
<b>BAF2/BAFH2/HBAF2</b> 1-Pole 120V AC	15	BA115AFC <sup>Ⓞ</sup>	BA115AFCH■	BA115AFCHH
	20	BA120AFC <sup>Ⓞ</sup>	BA120AFCH■	BA120AFCHH
<b>BAF/BAFH</b> 2-Pole 120/240V AC	15	B215AFC <sup>Ⓞ</sup>	B215AFCH■	—
	20	B220AFC <sup>Ⓞ</sup>	B220AFCH■	—



#### Branch-Feeder AFCI

Detects line-to-ground and line-to neutral arcs.

Breaker Type	Ampere Rating	10,000 A IR Catalog Number	22,000 A IR Catalog Number	65,000 A IR Catalog Number
<b>BAF2/BAFH2/HBAF2</b> 1-Pole 120V AC	15	BA115AF <sup>Ⓞ</sup>	BA115AFH■ <sup>Ⓞ</sup>	BA115AFHH
	20	BA120AF <sup>Ⓞ</sup>	BA120AFH■ <sup>Ⓞ</sup>	BA120AFHH



#### **NEW** Dual Function AFCI/GFCI

The Dual Function Circuit Breaker combines Combination Type AFCI and GFCI, protecting against both Arc Faults and Ground Faults. The device includes the Self Test and Lockout feature, making it the first in class in electrical safety for homeowners.

Breaker Type	Ampere Rating	10,000 A IR Catalog Number	22,000 A IR Catalog Number	65,000 A IR Catalog Number
<b>BFGA2/BFGAH2/HBFGA2</b> 1-Pole 120V AC	15	B115DF	B115DFH	B115DFHH
	20	B120DF	B120DFH	B120DFHH

### Ground-Fault Circuit Interrupters (GFCI)

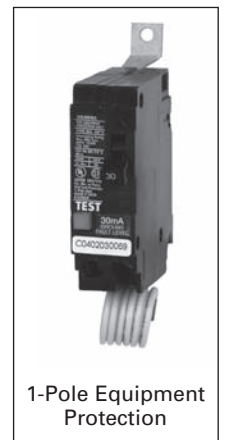
Provides Class A (5mA) ground fault protection. Intended for personnel protection. De-energizes the circuit for all ungrounded conductors of the circuit.

Breaker Type	Amp Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.
<b>BLF/BLHF</b> 1-Pole 120V AC Bolt-On	15	BF115 <sup>Ⓞ</sup>	BF115H <sup>Ⓞ</sup>
	20	BF120 <sup>Ⓞ</sup>	BF120H <sup>Ⓞ</sup> ■
	25	BF125■	BF125H■
	30	BF130	BF130H
<b>BLF/BLHF</b> 2-Pole 120/240V AC Bolt-On	15	BF215	BF215H
	20	BF220	BF220H
	30	BF230	BF230H
	40	BF240	BF240H
	50	BF250	BF250H
	60	BF260	BF260H

### Ground Fault Equipment Protection (30mA)

Provides protection of equipment from damaging line-to-ground faults currents. De-energizes the circuit for all ungrounded conductors of the circuit.

Breaker Type	Amp Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.
<b>BLE/ BLEH</b> 1-Pole, 120V AC Bolt-On	15	BE115 <sup>Ⓞ</sup>	BE115H <sup>Ⓞ</sup>
	20	BE120 <sup>Ⓞ</sup>	BE120H <sup>Ⓞ</sup>
	30	BE130	BE130H
<b>BLE/ BLEH</b> 2-Pole 120/240V AC Bolt-On	15	BE215	BE215H
	20	BE220	BE220H
	30	BE230	BE230H
	40	BE240	BE240H
	50	BE250	BE250H
	60	BE260■	BE260H■



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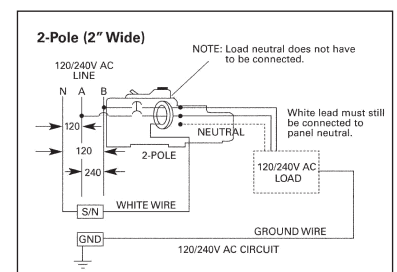
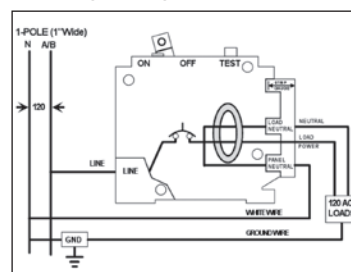
### QAF2/QPF/QE Accessories

Description	Catalog Number
Padlocking Device 1-Pole	ECPLD1
Padlocking Device 2-Pole	ECPLD2
Handle Block	ECBX231M

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

Ⓞ UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

### Wiring Diagrams



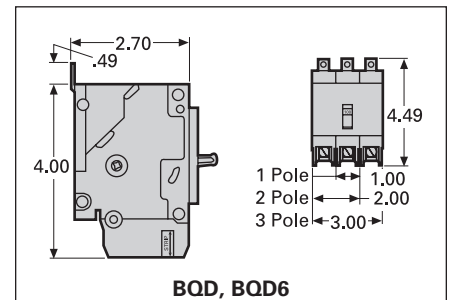
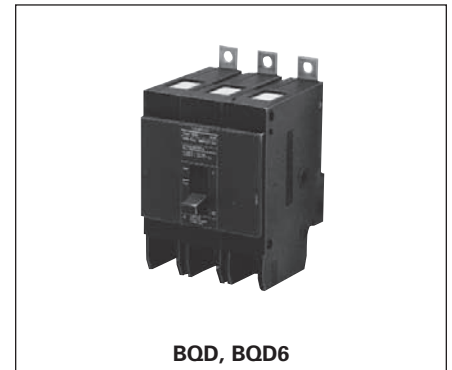
# Molded Case Circuit Breakers

## BQD 100A Frame Panelboard Mounting Circuit Breakers

### Selection/Dimensions

#### BQD<sup>④</sup>

Continuous Current Rating @ 40°C	1-Pole	2-Pole <sup>⑤</sup>	3-Pole <sup>⑥</sup>
	277V AC–125V DC	480Y/277V AC–125/250V DC	480Y/277V AC
	Catalog Number	Catalog Number	Catalog Number
15	BQD115 <sup>⑦⑧</sup>	BQD215 <sup>⑤</sup>	BQD315 <sup>⑥</sup>
20	BQD120 <sup>⑦⑧</sup>	BQD220 <sup>⑤</sup>	BQD320 <sup>⑥</sup>
25	BQD125 <sup>⑧</sup>	BQD225 <sup>⑤</sup>	BQD325 <sup>⑥</sup>
30	BQD130 <sup>⑧</sup>	BQD230 <sup>⑤</sup>	BQD330 <sup>⑥</sup>
35	BQD135 <sup>⑧</sup>	BQD235 <sup>⑤</sup>	BQD335 <sup>⑥</sup>
40	BQD140 <sup>⑧</sup>	BQD240 <sup>⑤</sup>	BQD340 <sup>⑥</sup>
45	BQD145 <sup>⑧■</sup>	BQD245 <sup>⑤</sup>	BQD345 <sup>⑥</sup>
50	BQD150 <sup>⑧</sup>	BQD250 <sup>⑤</sup>	BQD350 <sup>⑥</sup>
60	BQD160	BQD260	BQD360
70	BQD170■	BQD270	BQD370
80	BQD180■	BQD280	BQD380
90	BQD190■	BQD290	BQD390
100	BQD1100■	BQD2100	BQD3100



#### BQD6 CSA Certified

Continuous Current Rating @ 40°C	1-Pole	2-Pole <sup>⑤</sup>	3-Pole <sup>⑥</sup>
	347V AC	600/347V AC	600/347V AC
	Catalog Number	Catalog Number	Catalog Number
15	BQD6115 <sup>①</sup>	BQD6215	BQD6315
20	BQD6120 <sup>①</sup>	BQD6220	BQD6320
25	BQD6125■	BQD6225■	BQD6325■
30	BQD6130	BQD6230	BQD6330
35	BQD6135■	BQD6235■	BQD6335■
40	BQD6140■	BQD6240■	BQD6340
45	BQD6145■	BQD6245■	BQD6345■
50	BQD6150■	BQD6250■	BQD6350
60	BQD6160■	BQD6260■	BQD6360
70	BQD6170■	BQD6270■	BQD6370

#### Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.) (ea.)
1	1/12/48	.6
2	1/6/24	1.2
3	1/4/16	2.0

#### Lugs For 60/75°C Wire

BQD – Load End Only	
15–40	#14–#6 AWG Cu #12–#6 AWG Al
45–100	#8–#1 AWG Cu #6–#1/0 AWG Al

#### Interrupting Ratings

Breaker Type	Number of Poles	RMS Symmetrical Amperes (KA)							
		Volts AC						Volts DC	
		120	240	277	480/277	347	600/347	125	125/250
BQD (UL)	1	65	—	14	—	—	—	14	—
	2	—	65	—	14	—	—	—	14
	3	—	65	—	14	—	—	—	—
BQD6 (CSA)	1	65	—	—	—	10	—	14	—
	2	—	65	—	—	—	10	—	14
	3	—	65	—	—	—	10	—	—

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For inches / millimeters conversion, see Application Data section.  
■ Built to order. Allow 2–3 weeks for delivery.

①SWD rated for switching fluorescent lighting.  
②HID rated at 277V AC.  
③Not suitable for 3-phase delta 480V applications.  
④HACR rated.  
⑤HID rated at 480Y/277V AC.

For external accessories, please refer to pages 7-95 to 7-100  
For internal accessories, please refer to page 7-34