

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
BAF2/BAFH2/HBAF2 1-Pole 120V AC	15	BA115AFC [Ⓞ]	BA115AFCH	BA115AFCHH
	20	BA120AFC [Ⓞ]	BA120AFCH	BA120AFCHH
BAF/BAFH 2-Pole 120/240V AC	15	B215AFC [Ⓞ]	B215AFCH	—
	20	B220AFC [Ⓞ]	B220AFCH	—

Branch-Feeder AFCI

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

BAF2/BAFH2/HBAF2 1-Pole 120V AC	15	BA115AF [Ⓞ]	BA115AFH [■] Ⓞ	BA115AFHH [■]
	20	BA120AF [Ⓞ]	BA120AFH [■] Ⓞ	BA120AFHH [■]

NEW Dual Function AFCI/GFCI

The Dual Function Circuit Breaker combines Combination Type AFCI and GFCI, protecting against both Arc Faults and (5mA) Ground Faults. The device includes the Self Test feature, making it the first in class in electrical safety for homeowners.

BFGA2/BFGAH2/HBFGA2 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	10k A IR Cat. No.	22k A IR Cat. No.	65k A IR Cat. No.
BLF/BLHF 1-Pole 120V AC Bolt-On	15	BF115A [Ⓞ]	BF115AH [Ⓞ]	BF115AHH
	20	BF120A [Ⓞ]	BF120AH [Ⓞ]	BF120AHH
	25	BF125A	BF125AH	—
	30	BF130A	BF130AH	BF130AHH
BLF/BLHF 2-Pole 120/240V AC Bolt-On	15	BF215A	BF215AH	—
	20	BF220A	BF220AH	—
	30	BF230A	BF230AH	—
	40	BF240A	BF240AH	—
	50	BF250A	BF250AH	—
	60	BF260A	BF260AH	—

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	10k A IR Cat. No.	22k A IR Cat. No.
BLE/ BLEH 1-Pole, 120V AC Bolt-On	15	BE115 [Ⓞ]	BE115H [■] Ⓞ
	20	BE120 [Ⓞ]	BE120H [■] Ⓞ
	30	BE130	BE130H [■]
BLE/ BLEH 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 [■]

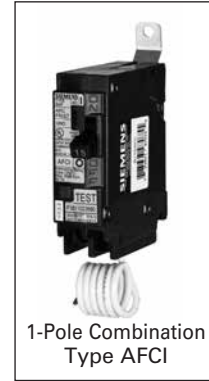
QAF2/QPF/QE Accessories

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

■ Built to order. Allow 8-10 weeks for delivery.
[Ⓞ] UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

• UL Listed

• HACR Rated



1-Pole Combination Type AFCI



2-Pole Combination Type AFCI



1-Pole Branch Feeder AFCI



1-Pole Dual Function AFCI/GFCI

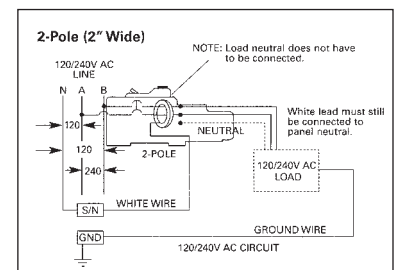
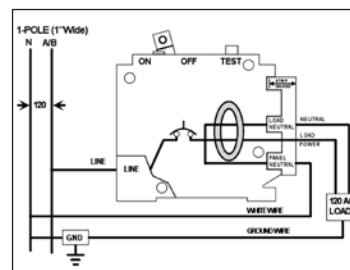


1-Pole Equipment Protection



2-Pole Equipment Protection

Wiring Diagrams



Molded Case Circuit Breakers

Panelboard Mounting with INSTA-WIRE

Selection

1-Pole Bolt-On (120V AC)[Ⓞ]

Continuous Current Rating @ 40° C	Type BL ^{①②}	Type BLH ^{①②}	Type HBL ^{①②}
	10,000A IR	22,000A IR	65,000A IR
	Catalogue Number	Catalogue Number	Catalogue Number
15	B115 ^②	B115H ^④	B115HH ^⑤
20	B12 ^②	B120H ^④	B120HH ^⑤
25	B125	B125H	B125HH■
30	B130	B130H	B130HH
35	B135	B135H■	B135HH■
40	B140	B140H	B140HH
45	B145■	B145H■	B145HH■
50	B150	B150H	B150HH■
60	B160	B160H■	B160HH■
70	B170	B170H■	B170HH■



2-Pole Bolt-On (Common-Trip 120/240V AC)[Ⓞ]

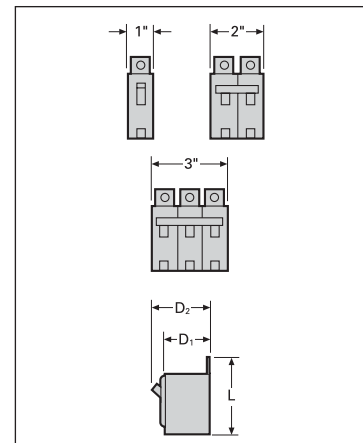
15	B215	B215H	B215HH
20	B220	B220H	B220HH
25	B225	B225H■	B225HH■
30	B230	B230H	B230HH
35	B235	B235H■	B235HH■
40	B240	B240H	B240HH
45	B245	B245H■	B245HH■
50	B250	B250H	B250HH
60	B260	B260H	B260HH
70	B270	B270H■	B270HH■
80	B280	B280H■	B280HH■
90	B290	B290H■	B290HH■
100	B2100	B2100H	B2100HH
110	B2110■	B2110H■	B2110HH■
125	B2125	B2125H	B2125HH■

2-Pole Bolt-On (Common-Trip 240V AC)^{ⓄⓄⓄ}

15	B215R	—	—
20	B220R	—	—
30	B230R	—	—
40	B240R■	—	—
50	B250R	—	—

3-Pole Bolt-On (Common-Trip 240V AC)[Ⓞ]

15	B315	B315H	B315HH
20	B320	B320H	B320HH
25	B325	B325H	B325HH■
30	B330	B330H	B330HH
35	B335	B335H■	B335HH■
40	B340	B340H	B340HH
45	B345	B345H■	B345HH■
50	B350	B350H	B350HH
60	B360	B360H	B360HH
70	B370	B370H	B370HH
80	B380	B380H■	B380HH
90	B390	B390H■	B390HH
100	B3100	B3100H	B3100HH



Breaker Type	Amperes	Dimensions		
		L	D ₁	D ₂
BL, BLH	15-50	3 ³ / ₁₆	2 ⁷ / ₈	3
BL, BLH	55-125	3 ³ / ₁₆	2 ⁷ / ₈	3
HBL	15-125	3 ³ / ₁₆	2 ⁷ / ₈	3

BL/BLH/HBL Internal Accessories

Description	Catalog Number	Field/Factory Installed
120VAC Shunt Trip	add suffix...00S01■	Factory
24VAC Shunt Trip	add suffix...00S07■	Factory
120V Auxiliary Switch	add suffix...01■ ^②	Factory

For external accessories, please refer to page <?>

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

① UL Listed for use with 60/75° wire through 40 amps, CSA Certified / UL Listed for use with 75° wire only for 50 amps and above, HACR rated. 120V AC Fluorescent Lighting.

② 1A and 1B contacts.

③ UL Listed for use on 3-phase grounded "B" systems — 10,000 for this application.

④ UL Listed for frequent switching applications (SWD).

⑤ Shipped 12 per sleeve.

⑥ Shipped 6 per sleeve.

⑦ Shipped 4 per sleeve.

⑧ UL Listed 5KA IR.

⑨ 10 Amp breaker does not have INSTA-WIRE.

⑩ For 3 Phase Applications.

⑪ UL Listed for reverse feed."

⑫ CSA Certified for frequent switching applications (SWD)

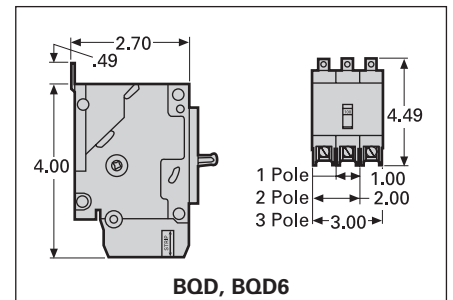
Molded Case Circuit Breakers

BQD 100A Frame Panelboard Mounting Circuit Breakers

Selection/Dimensions

BQD^④

Continuous Current Rating @ 40°C	1-Pole	2-Pole ^⑤	3-Pole ^⑥
	277V AC–125V DC Catalog Number	480Y/277V AC– 125/250V DC Catalog Number	480Y/277V AC Catalog Number
15	BQD115 ^{①②}	BQD215 ^⑤	BQD315 ^⑥
20	BQD120 ^{①②}	BQD220 ^⑤	BQD320 ^⑥
25	BQD125 ^③	BQD225 ^⑤	BQD325 ^⑥
30	BQD130 ^③	BQD230 ^⑤	BQD330 ^⑥
35	BQD135 ^②	BQD235 ^⑤	BQD335 ^⑥
40	BQD140 ^②	BQD240 ^⑤	BQD340 ^⑥
45	BQD145 ^{②■}	BQD245 ^⑤	BQD345 ^⑥
50	BQD150 ^②	BQD250 ^⑤	BQD350 ^⑥
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 ^⑤	3-Pole ^⑥
	347V AC Catalog Number	600/347V AC Catalog Number	600/347V AC Catalog Number
15	BQD6115 ^①	BQD6215	BQD6315
20	BQD6120 ^①	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 (CSA/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	—	—

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

①UL Rated SWD 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 5-93 to 5-98
For internal accessories, please refer to page 5-34