

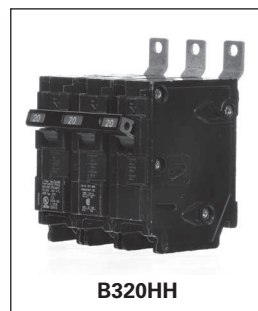
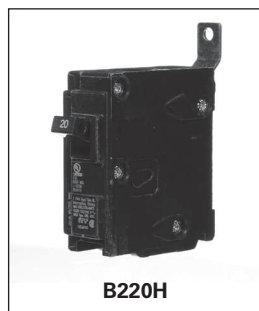
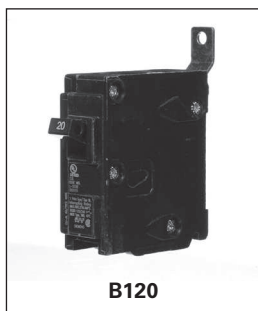
Molded Case Circuit Breakers

Reference Guide

Selection/Application

Thermal-Magnetic Trip Breakers

					Plug-In Breakers					Panelboard Breakers									
					QT	QP	QPH	HQP	HQPPH	QPJ	BL [®]	BLH	HBL	BQD, BQD6	NGB, NGB2	HGB2	LGB2		
Page					5-21	5-22, 5-24	5-22, 5-24	5-20, 5-24	5-20, 5-24	5-24	5-29	5-29	5-29	5-32	5-33	5-33	5-33		
Ratings	AC	Poles			1, 2	1, 2, 3	1, 2, 3	1, 2, 3 ^②	2	2, 3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3		
		Amperes			15-50	10-125 ^{③④}	10-125 ^{③④}	10-125 ^{③②}	100-225	150-200	10-125	15-125	15-100	15-100	15-125	15-125	15-125		
		Volts (50/60 Hz)	1 Pole	120/240	120/240	120/240	120/240	120/240	120/240	120/240	120/240	120/240	120/240	120/240	277	347	347	347	
			2 Pole	—	240	240	240	240	240	240	240	240	240	240	480/277	600/347	600/347	600/347	
			3 Pole	—	240	240	240	240	240	240	240	240	240	240	480/277	600/347	600/347	600/347	
		Interrupt Ratings	CSA/UL	120V	10,000	10,000	22,000	65,000	—	—	10000	22000	65000	65000	—	—	—		
				240V	10,000	10,000	22,000	65,000	100,000	10,000	10000	22000	65000	65000	100000	100000	100000		
				277V	—	—	—	—	—	—	—	—	—	14000	—	—	—		
				347V	—	—	—	—	—	—	—	—	—	10000	—	—	—		
				480/277V	—	—	—	—	—	—	—	—	—	14000	25000	35000	65000		
				480V	—	—	—	—	—	—	—	—	—	—	—	—	—		
				600/347V	—	—	—	—	—	—	—	—	—	10000	14000	22000	25000		
				600V	—	—	—	—	—	—	—	—	—	—	—	—	—		
				IEC 947-2 50/60 Hz	220/240V	I _{CU}	—	—	—	—	—	—	—	—	—	—	—	—	—
					380/415V	I _{CU}	—	—	—	—	—	—	—	—	—	—	—	—	—
						I _{CS}	—	—	—	—	—	—	—	—	—	—	—	—	—
	500V	I _{CU}	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
		I _{CS}	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
DC	125/250 V DC Interrupting Rating	2-Pole	—	—	—	—	—	—	—	—	—	—	14000	14000	14000	14000			
		3-Pole	—	—	—	—	—	—	—	—	—	—	—	—	—				
Dimensions in Inches	Height			10-50A	—	2.87	2.87	—	—	—	3.56	3.56	3.75	4.50	5.00	5.00	5.00		
				10-60A	3.12	—	—	—	—	—	—	—	—	—	—	—			
				55-125A	—	3.12	3.12	3.12	3.12	3 [®]	3.75	3.75	3.75	4.50	5.00	5.50	5.50		
	Width			1-Pole	1.00	1.00	1.00	1.00	—	—	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
				2-Pole	2.00 ^①	2.00	2.00	2.00	4.00	[®]	2.00	2.00	2.00	2.00	2.00	2.00	2.00		
				3-Pole	2.00 ^①	3.00	3.00	3.00	3.00	—	3.00 [®]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Depth				2.06	2.37	2.37	2.37	2.37	2.34	2.37	2.37	2.37	2.69	2.71	2.71	2.71			
Overcurrent Devices	Thermal and Fixed magnetic Trip			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Thermal and Adjustable Magnetic trip			—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Adjustable Magnetic trip only			—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Motor Circuit Protector			—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Molded Case Switch			—	✓ ^⑥	—	—	—	—	—	—	—	—	—	—	—	—		
Accessories & Modifications	Undervoltage Trip			—	—	—	—	—	—	—	—	—	—	✓	—	✓	✓		
	Shunt Trip			—	✓ ^⑥	✓ ^⑥	✓	✓ ^⑧	—	✓	✓	✓	✓	✓	✓	✓	✓		
	Auxiliary Switch			—	—	—	—	✓ ^⑧	—	✓	✓	✓	✓	✓	✓	✓	✓		
	Alarm Switch			—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓		
	Mechanical Interlock			—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Fungus Proofing (ref. page 5-89)			—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓		



For inches / millimeters conversion, see Technical section.
For Plug-in Breakers, see Loadcentres section.

① BQD6 CSA certified 10,000A @ 600Y/347V 15-70A only.
② Single pole breakers available in ratings 10-70A only.
③ 125A, 2-pole 120/240V AC only.

④ Single pole circuit breakers available in ratings 15-70A only, 125A available as a 2-pole only.
⑤ 10A, 1-pole & 2-pole 120/240V AC only.

Molded Case Circuit Breakers

BQD 100A Frame Panelboard Mounting Circuit Breakers

BQD^④

Continuous Current Rating @ 40°C	1-Pole	2-Pole ^①	3-Pole ^③
	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 ^⑤
20	BQD120 ^{①②}	BQD220 ^⑤	BQD320 ^⑤
25	BQD125 ^②	BQD225 ^⑤	BQD325 ^⑤
30	BQD130 ^②	BQD230 ^⑤	BQD330 ^⑤
35	BQD135 ^②	BQD235 ^⑤	BQD335 ^⑤
40	BQD140 ^②	BQD240 ^⑤	BQD340 ^⑤
45	BQD145 ^{②■}	BQD245 ^⑤	BQD345 ^⑤
50	BQD150 ^②	BQD250 ^⑤	BQD350 ^⑤
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 ^①	3-Pole ^③
	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

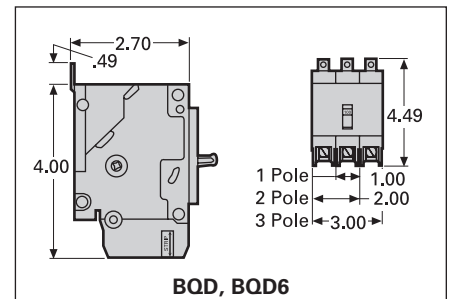
Interrupting Ratings

Breaker Type	Number of Poles	RMS Symmetrical Amperes (KA)							
		Volts AC						Volts DC	
		120	240	277	480/277	347	600/277	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.

Selection/Dimensions



Shipping Weights

Number of Poles	Number per Carton	Shipping Weight (lbs.) (ea.)
1	1/12/48	0.6
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	#9–#1 AWG Cu #6–#1/0 AWG Al

For external accessories, please refer to pages 5-83 - 5-89
For internal accessories, please refer to page 5-24

Panelboards

Warehouse Stock/Unassembled – Type P1 Panelboards

Selection

Branch Breakers Selection for P1

Selection Guide

1. Select breaker type.
2. Select required amperage.
3. Select number of poles.
4. Select branch breaker catalog numbers.
5. Select ground bar and filler plates.
(See replacement parts & accessories on page 10-12.)

BL Branch Breakers – 10,000A IR^①

Amp Rating	1-Pole 120/240V	2-Pole 120/240V	2-Pole 240V	3-Pole 240V
15	B115	B215	B215R	B315
20	B120	B220	B220R	B320
25	B125	B225	B225R	B325
30	B130	B230	B230R	B330
35	B135	B235	B235R	B335
40	B140	B240	B240R	B340
45	B145	B245	B245R	B345
50	B150	B250	B250R	B350
55	B155	—	—	—
60	B160	B260	—	B360
70	B170	B270	—	B370
80	—	B280	—	B380
90	—	B290	—	B390
100	—	B2100	—	B3100

BLH Branch Breakers – 22,000A IR^①

Amp Rating	1-Pole 120/240V	2-Pole 120/240V	3-Pole 240V
15	B115H	B215H	B315H
20	B120H	B220H	B320H
25	B125H	B225H	B325H
30	B130H	B230H	B330H
35	B135H	B235H	B335H
40	B140H	B240H	B340H
45	B145H	B245H	B345H
50	B150H	B250H	B350H
55	B155H	—	—
60	B160H	B260H	B360H
70	B170H	B270H	B370H
80	—	B280H	B380H
90	—	B290H	B390H
100	—	B2100H	B3100H

HBL Branch Breakers – 65,000A IR^①

Amp Rating	1-Pole 120/240V	2-Pole 120/240V	3-Pole 240V
15	B115HH	B215HH	B315HH
20	B120HH	B220HH	B320HH
30	B130HH	B230HH	B330HH
40	B140HH	B240HH	B340HH
50	B150HH	B250HH	B350HH
60	—	B260HH	B360HH
70	—	B270HH	B370HH
80	—	B280HH	B380HH
90	—	B290HH	B390HH
100	—	B2100HH	B3100HH

BQD Branch Breakers – 14,000A IR Max. @ 480/277 Vac / 65,000A IR max. @ 240 Vac^②

Amp Rating	1-Pole 277V	2-Pole 480Y/277V	3-Pole 480Y/277V
15	BQD115	BQD215	BQD315
20	BQD120	BQD220	BQD320
25	BQD125	BQD225	BQD325
30	BQD130	BQD230	BQD330
35	BQD135	BQD235	BQD335
40	BQD140	BQD240	BQD340
45	BQD145	BQD245	BQD345
50	BQD150	BQD250	BQD350
55	BQD155	BQD255	BQD355
60	BQD160	BQD260	BQD360
70	BQD170	BQD270	BQD370
80	BQD180	BQD280	BQD380
90	BQD190	BQD290	BQD390
100	BQD1100	BQD2100	BQD3100

BQD6 Branch Breakers – 10,000A IR max. @ 600/347 Vac

Ampere Rating	Catalogue Number		
	1-Pole 347V	2-Pole 600Y/347V	3-Pole 600Y/347V
15	BQD6115	BQD6215	BQD6315
20	BQD6120	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

NGB Family Branch Breakers

NGB – 14,000A IR Max. @ 600Y/347V AC / 100,000A IR @ 240V AC

Amp Rating	1-pole 347V	2-pole 600Y/347V	3-pole 600Y/347V
15	NGB1B015B	NGB2B015B	NGB3B015B
20	NGB1B020B	NGB2B020B	NGB3B020B
25	NGB1B025B	NGB2B025B	NGB3B025B
30	NGB1B030B	NGB2B030B	NGB3B030B
35	NGB1B035B	NGB2B035B	NGB3B035B
40	NGB1B040B	NGB2B040B	NGB3B040B
45	NGB1B045B	NGB2B045B	NGB3B045B
50	NGB1B050B	NGB2B050B	NGB3B050B
60	NGB1B060B	NGB2B060B	NGB3B060B
70	NGB1B070B	NGB2B070B	NGB3B070B
80	NGB1B080B	NGB2B080B	NGB3B080B
90	NGB1B090B	NGB2B090B	NGB3B090B
100	NGB1B100B	NGB2B100B	NGB3B100B
110	NGB1B110B	NGB2B110B	NGB3B110B
125	NGB1B125B	NGB2B125B	NGB3B125B

■ Built to order. Allow 8-10 weeks for delivery. ① To add shunt trip to BL breakers, see Breaker Accessories.
② To add shunt trip to BQD breakers, see Breaker Accessories.