

# QOB Bolt-On Circuit Breakers

With VISI-TRIP® Indicator for NQ Panelboards

Ampere Rating▲	One-pole	Two-pole—Common Trip
	Catalogue No.	Catalogue No.
<b>QOB-GFI—QOB QWIK-GARD® Circuit Breaker With Ground Fault Circuit Interrupter—Class A 4-6 mA People Protection. ■</b>		
	120 Vac—10,000 AIR	120/240 Vac—10,000 AIR
15	QOB115GFI	QOB215GFI
20	QOB120GFI	QOB220GFI
25	QOB125GFI	QOB225GFI
30	QOB130GFI	QOB230GFI
40	.....	QOB240GFI
50	.....	QOB250GFI
60	.....	QOB260GFI◆

<b>QOB-VHGF1</b>		
	120 Vac—22,000 AIR	
15	QOB115VHGF1	.....
20	QOB120VHGF1	.....
25	QOB125VHGF1	.....
30	QOB130VHGF1	.....

<b>QOB-EPD—QOB Equipment protection circuit breakers with 30 mA equipment protection.</b>		
	120 Vac—10,000 AIR	
15	QOB115EPD	QOB215EPD
20	QOB120EPD	QOB220EPD
25	QOB125EPD	QOB225EPD
30	QOB130EPD	QOB230EPD
40	.....	QOB240EPD
50	.....	QOB250EPD
60	.....	QOB260EPD

<b>QOB-HM—High magnetic trip circuit breakers are recommended for applications where high initial inrush may occur and for individual dimmer applications.</b>		
15	QOB115HM□	.....
20	QOB120HM□	.....

<b>QOB-AFI—QOB Arc Fault Circuit Interrupters</b>		
	120 Vac	22,000 AIR
15	QOB115AFI	.....
20	QOB120AFI	.....
15	QOB115VHAFI	.....
20	QOB120VHAFI	.....

<b>QOB-CAFI—QOB Combination Arc Fault Circuit Interrupters</b>		
	1 Pole 120 Vac	2 Pole 120/240 Vac
15	QOB115CAFI	QOB215CAFI
20	QOB120CAFI	QOB220CAFI
15	QOB115VHCAFI	QOB215VHCAFI
20	QOB120VHCAFI	QOB220VHCAFI

<b>QOB-DF—QOB Dual Function Circuit Breakers</b>		
	1 Pole 120 Vac Pigtail Neutral	1 Pole 120 Vac Plug-On Neutral
	10,000 AIR	
15	QOB115DF	QOB115PDF
20	QOB120DF	QOB120PDF
	22,000 AIR	
15	QOB115VHDF	QOB115VHPDF
20	QOB120VHDF	QOB120VHPDF

<b>QOB-K—Key operated QOB circuit breakers can be turned ON or OFF or to RESET with a special key (Catalogue No. QOK10) included with the circuit breaker.</b>		
	120 Vac—10,000 AIR	
10	QOB110K	.....
15	QOB115K	.....
20	QOB120K	.....
25	QOB125K	.....
30	QOB130K	.....

<b>QO/QOB Circuit Breaker Wire Sizes</b>			
Breaker Type	Ampere Rating	Wire Size (AWG)	
		Al	Cu
QOB 1-pole	10-30	#14-8	#14-8
	10-30	..	(2) #14-10
	35-70	#8-2	#8-2
QOB 2-pole	10-30	#14-8	#14-8
	10-30	..	(2) #14-10
	35-70	#8-2	#8-2
	80-125	#4-2/0	#4-2/0
	150-200	#4-300 kcmil	#4-300 kcmil
QOB 3-pole	10-30	#14-8	#14-8
	35-70	#8-2	#8-2
	80-125	#4-2/0	#4-2/0
QOB-VH	110-150	#4-300 kcmil	#4-300 kcmil
QOT	15-20	#12-8	#14-8
QOB-GFI & QOB-EPD	15-30 40, 50, 60	#12-8 #12-4	#14-8 #14-6

Ampere Rating	One-pole	Two-pole—Common Trip	Two-pole—Common Trip*	Three-pole—Common Trip
	Catalogue No.	Catalogue No.	Catalogue No.	Catalogue No.
<b>QOB Bolt-On</b>				
	120 Vac—10,000 AIR 48 Vdc—5,000 AIR	120/240 Vac—10,000 AIR 48 Vdc—5,000 AIR▼	240 Vac—10,000 AIR	240 Vac—10,000 AIR 48 Vdc—5,000 AIR▼
10	QOB110	QOB210	.....	QOB310
15	QOB115△□	QOB215△	QOB215H	QOB315△
20	QOB120△□	QOB220△	QOB220H	QOB320△
25	QOB125△	QOB225△	QOB225H	QOB325△
30	QOB130△	QOB230△	QOB230H	QOB330△
35	QOB135△	QOB235△	.....	QOB335△
40	QOB140△	QOB240△	QOB240H	QOB340△
45	QOB145△	QOB245△	.....	QOB345△
50	QOB150△	QOB250△	QOB250H	QOB350△
60	QOB160△	QOB260△	QOB260H	QOB360△
70	QOB170△	QOB270△	QOB270H	QOB370△▼
80	.....	QOB280△▼	QOB280H	QOB380△▼
90	.....	QOB290△▼	QOB290H	QOB390△▼
100	.....	QOB2100△▼	QOB2100H	QOB3100△▼
110	.....	QOB2110△▼	.....	.....
125	.....	QOB2125△▼	.....	.....
Molded Case Switch 60 A max - 240 Vac		QOB200	.....	QOB300
Molded Case Switch 100 A max - 240 Vac		QOB2000	.....	QOB3000

<b>QOB-VH</b>				
	120 Vac—22,000 AIR	120/240 Vac—22,000 AIR		240 Vac—22,000 AIR
15	QOB115VH△□	QOB215VH△	.....	QOB315VH△
20	QOB120VH△□	QOB220VH△	.....	QOB320VH△
25	QOB125VH△	QOB225VH△	.....	QOB325VH△
30	QOB130VH△	QOB230VH△	.....	QOB330VH△
40	.....	QOB240VH△	.....	QOB340VH△
50	.....	QOB250VH△	.....	QOB350VH△
60	.....	QOB260VH△	.....	QOB360VH△
70	.....	QOB270VH△	.....	QOB370VH△
80	.....	QOB280VH△	.....	QOB380VH△
90	.....	QOB290VH△	.....	QOB390VH△
100	.....	QOB2100VH△◇	.....	QOB3100VH△
110	.....	QOB2110VH△◇	.....	QOB3110VH△★
125	.....	QOB2125VH△◇	.....	QOB3125VH△★
150	.....	QOB2150VH△★	.....	QOB3150VH△★

<b>QHB</b>				
	120 Vac—65,000 AIR	120 Vac/240 Vac—65,000 AIR		240 Vac—65,000 AIR
15	QHB115△□	QHB215△	.....	QHB315△
20	QHB120△□	QHB220△	.....	QHB320△
25	QHB125△	QHB225△	.....	QHB325△
30	QHB130△	QHB230△	.....	QHB330△

<b>QOB-HID—HID circuit breakers are for use on circuit feeding fluorescent and High Intensity Discharge (HID) lighting systems such as mercury vapor, metal halide, or high pressure sodium.</b>				
	120 Vac—10,000 AIR	120/240 Vac—10,000 AIR		240 Vac—10,000 AIR
15	QOB115HID□	QOB215HID	.....	QOB315HID
20	QOB120HID□	QOB220HID	.....	QOB320HID
25	QOB125HID	QOB225HID	.....	QOB325HID
30	QOB130HID	QOB230HID	.....	QOB330HID
40	QOB140HID	QOB240HID	.....	.....
50	QOB150HID	QOB250HID	.....	.....

<b>QOB-SWN—Switch Neutral—Common Trip—NEC 514-5</b>				
		1-pole—2-Wire 2 Spaces—120 Vac		2-pole—3-Wire 3 Spaces—120/240 Vac
10	.....	QOB210SWN	.....	QOB310SWN
15	.....	QOB215SWN	.....	QOB315SWN
20	.....	QOB220SWN	.....	QOB320SWN
25	.....	QOB225SWN	.....	QOB325SWN
30	.....	QOB230SWN	.....	QOB330SWN
40	.....	QOB240SWN	.....	QOB340SWN
50	.....	QOB250SWN	.....	QOB350SWN

<b>QO/QOB Ring Terminal (20% Price Adder) Factory Installed Only</b>			
Ampere Rating	Pole	Suffix	
10-30	1P, 2P, 3P	5237	
35-60	1P, 2P	5238	
	3P	5238	
70-110	2P	5273	
	3P	5273	

- ▲ 10-30 ampere circuit breakers are suitable for use with 60°C or 75°C conductors. 35-60 ampere circuit breakers are suitable for use with 75°C conductors.
- Do not connect to more than 250 feet of load conductor for the total one-way run to prevent nuisance tripping.
- ◆ Suitable only for feeding 240 Vac and 208 Vac two-wire loads. Does not contain load neutral connection.
- ★ CSA Listed 5,000 AIR on 3Ø corner grounded delta systems.
- ▼ DC Rating is not available on indicated products.
- △ CSA Listed as HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers.
- CSA Listed as SWD (switching duty) rated suitable for switching 120 Vac fluorescent lighting loads.
- ◇ 100 A max circuit breaker mounted opposite.
- ☆ QOB2150VH uses 4 pole spaces. QOB3110VH, QOB3125VH and QOB3150VH each use 6 pole spaces. 20 A max circuit breaker mounted opposite. Wire size is #4-300 kcmil Al/Cu. Use with 75°C wire only.

See page DE5-5 for accessories.

# Selection Information

## Miniature Circuit Breakers

Class 500, 600

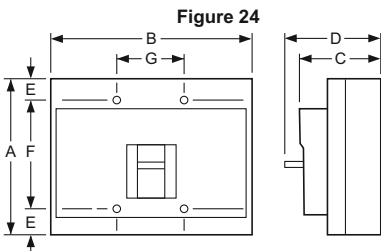
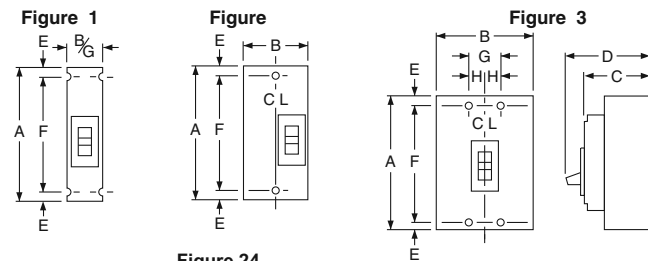
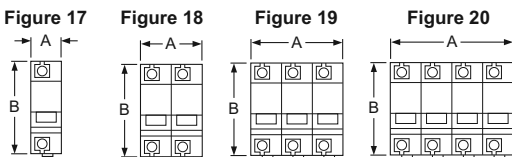
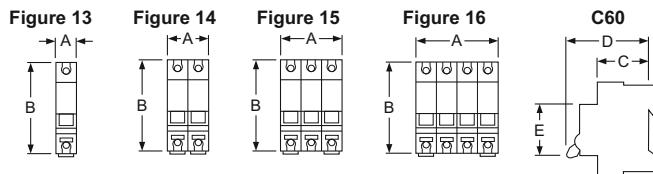
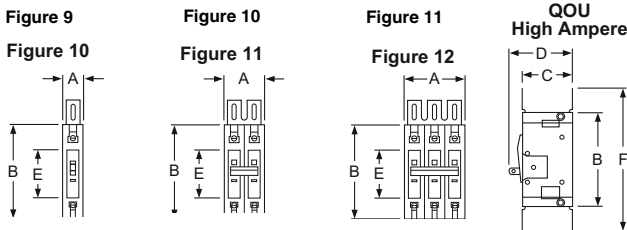
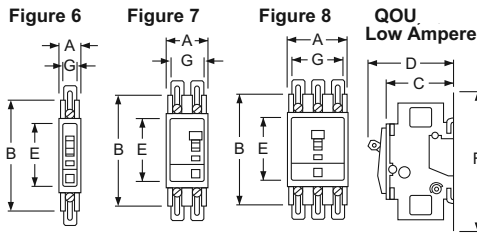
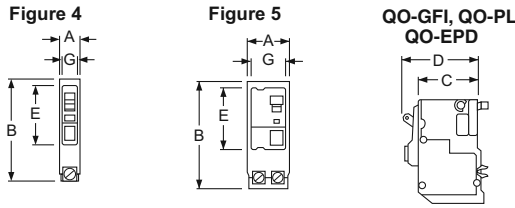
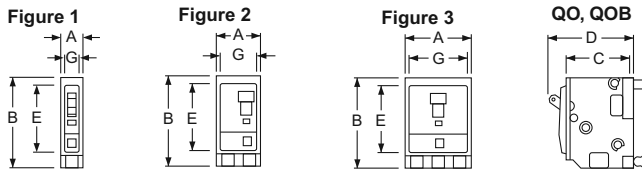
DE3 CIRCUIT BREAKERS

		CHOM Circuit Breakers							QO™ Circuit Breakers																					
Circuit Breaker Type	Plug-on	CHOM	CHOM-AFI	CHOM-GFI	CHOM-EPD	CHOMT	QO	QO-H	QO-VH	QH	QOT	QO-CAFI	QO-VHAFI	QO-GFI	QO-VHGFI	QO-EPD QO-EPE	QOB	QOB-H	QOB-VH	QHB	QOB-CAFI	QOB-VHAFI	QOB-GFI	QOB-VHGFI	QOB-EPD QOB-EPE					
	Bolt-on	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	Unit Mount	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Number of Poles		1 2	1 2	1 2	1 2	1	1 2 3	2 1 2 3	1 2 3	1 2 3	1 2 3	1 1	1 1	1 2 3	1 1 2 3	1 1 2 3	1 2 3	1 2 3	1 2 3	1 1	1 1	1 2 3	1 1 2 3							
Current Range		15-60 15-200 <sup>⊙</sup>	15-20	15-20	15-50	15-20	15-50	10-70 10-200 <sup>⊙</sup>	10-100	15-100	15-30	15-125	15-100	15-30	15-150	15-30	15-30	15-30	15-20	15-30	15-30	15-60	15-50	15-30	15-30	15-60	15-50			
Interrupting Ratings																														
UL/CSA Rating (kA) (50/60 Hz)	120 Vac	10	10	10	10	10	10	10	10	10	10	10	10	22	22	22	22	22	65	65	10	10	22	10	10	—	22	10	10	—
	120/240 Vac	10	10	—	—	10	—	10	10	10	10	10	10	22	22	22	22	22	65	65	10	—	—	—	10	—	—	—	—	—
	208Y/120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	240 Vac ★	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	277 Vac	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DC Ratings	48 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	65 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	125 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	250 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IEC 60947-2 (50/60 Hz) ▼	IEC (Icu)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Special Ratings																														
CCC		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fed. Specs W-C-375B/GEN		X	X	X	X	X	X	X	X	X	—	—	—	X	—	—	—	—	X	—	X	X	—	X	—	—	—	X	—	
Other Standard		HACR ▲ NOM		HACR ▲				HACR □ NOM			HACR □			—	—	—	—	—	—	—	HACR □	—	NOM	—	—	NOM	—	—		
Accessories and Modifications																														
Shunt Trip ◊		—	—	—	—	—	—	—	—	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Undervoltage Trip		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Auxiliary Switches ◊		—	—	—	—	—	—	—	—	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Alarm Switch ◊		—	—	—	—	—	—	—	—	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Handle Operators		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Handle Padlock Attachment		X	X	X	—	—	—	X	▼	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Trip System Type																														
Thermal-magnetic		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Molded Case Switch		—	—	—	—	—	—	—	—	X	X	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dimensions (1P Unit Mount)																														
Dimensions (1P Unit Mount) in. (mm)	Height	3.13 (79)							3.5 (89) ▲							4.75 (121)			4.12 (103)											
	Width	1.00 (25)							0.75 (19) ▲																					
	Depth	2.98 (76)							2.92 (74) ▲																					
Pages		Section DE1														Pages DE3-10, DE3-11														

- ▲ See page DE3-54 for dimensions for: QOB2150VH, QOB3110VH, QOB3125VH and QOB3150VH.
- CHOMT tandem is 30 A maximum. CHOMT quad has 20 A maximum on outside poles, and 50 A maximum on the inside poles.
- ◆ AFI, EPD and GFI products are rated 60 Hz only.
- ★ 22 kA @ 240 Vac for 3P only.
- ▼ 1P and 2P, 10-70 A and 3P 10-60 A only.
- △ HACR on CHOM 1P 15-50 A and 2P 15-100 A
- HACR on QO, QOB 1P 10-70 A, 2P 15-100 A, 3P 10-100 A; QOB-VH 1P 15-70 A, 2P 15-125 A, 3P 15-100 A.
- ◊ Factory-installed option only.
- ☆ Factory-installed accessories are not available on QOB-VH 2P150 A and 3P 110-150 A.
- ▽ Handle padlock attachment available for CHOMT quad tandem only.
- ⊙ 2P 150-200 A requires 4P width.

# Dimensions and Shipping Weights

## Miniature and Molded Case Circuit Breakers



### QO™, QOU, Multi 9™ Circuit Breakers

Circuit Breaker Catalogue No. Prefix	No. Poles	Fig. No.	Dimensions—Inches						
			A	B	C	D	E	F	G
QO, QOB	1	1	0.75	3.00▲	2.31	2.91	2.25	...	0.59
	2	2	1.50	3.00▲	2.31	2.91	2.25	...	1.34
	3	3	2.25	3.00▲	2.31	2.91	2.25	...	2.09
QOB-VH 150 A QOB-VH 110–150 A	2	2	3.0	5.72	2.53	4.90	3.78	...	2.85
	3	3	4.50	5.72	2.53	4.90	3.78	...	4.35
QO-PL QO-GFI QO-EPD	1	4	0.75	4.12■	2.31	2.91	2.25	...	0.59
	2	5	1.50	4.12■	2.31	2.91	2.25	...	1.34
	3	5	2.25	4.12■	2.31	2.91	2.25	...	2.09
QOU Low Ampere	1	6	0.75	4.05♦	2.38	2.98	2.25	5.00▼	0.62
	2	7	1.50	4.05♦	2.38	2.98	2.25	5.00▼	1.37
	3	8	2.25	4.05★	2.38	2.98	2.25	5.00△	2.12
QOU High Ampere	1	9	0.75	4.45	2.37	2.96	2.25	6.78	...
	2	10	1.50	4.45	2.37	2.96	2.25	6.78	...
	3	11	2.25	4.45	2.37	2.96	2.25	6.78	...
Multi 9™ C60	1	13	0.71	3.19	1.73	2.76	1.77	—	—
	2	14	1.42	3.19	1.73	2.76	1.77	—	—
	3	15	2.13	3.19	1.73	2.76	1.77	—	—
	4	16	2.84	3.19	1.73	2.76	1.77	—	—

- ▲ 35–70 A is 3.12 in; 80–100 A 2-pole and 70–100 A 3-pole are 3.50 in.
- QO-PL is 4.55 in.
- ♦ 80–100 A 1-pole and 80–125 A 2-pole are 4.45 in.
- ★ 70–100 A 4.45 in.
- ▼ 80–100 A 1-pole and 80–125 A 2-pole are 6.78 in.
- △ 70–100 A is 6.78 in.

### QB, QD, QG, QJ, Q4, FA, FI, KI, LA, LH Circuit Breakers

Circuit Breaker Catalogue No. Prefix	No. Poles	Fig. No.	Dimensions—Inches							
			A	B	C	D	E	F	G	H
QB, QD, QG, QJ	2	22	6.47	3.00	3.02	3.93	□	4.25	...	...
	3	23	6.47	4.50	3.02	3.93	□	4.25	1.50	0.75
FAL, FHL	1	21	6.00	1.50	3.16	4.13	0.44	5.13	1.50	...
	2	22	6.00	3.00	3.16	4.13	0.44	5.13	...	...
	3	23	6.00	4.50	3.16	4.13	0.44	5.13	1.50	0.75
FIL, KIL	2 & 3	23	8.00	4.50	3.66	4.75	0.44	7.13	1.50	0.75
Q4L, LAL, LHL	2 & 3	23	11.00	6.00	4.06	5.84	0.88	9.25	2.00	1.00

□ Dimensions E are 1.59 in at ON end and 0.63 in at OFF end.

### Shipping Weights ◊

Frame Size	Approx. Shipping Weight (Lbs.)	Frame Size	Approx. Shipping Weight (Lbs.)
FAL, FHL 1P	2	KIL	9
FAL, FHL 2P	3	LAL, LHL	15
FAL, FHL 3P	5	LIL LXIL	25
FIL	8	Q4L	15
QB, QD, QG, QJ	4		

◊ All weights are for 3P circuit breakers unless otherwise noted.