




**QO-GFI, QO-EPD, QOU, QOM Miniature Circuit Breakers**

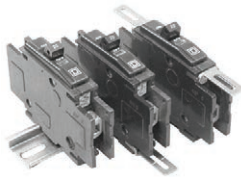
		QO Circuit Breakers						QOU Circuit Breakers				QOM1 and QOM2 Main Circuit Breakers		
														
Circuit Breaker Type	Plug-on	QO-GFI			QO-VHGF	QO-EPD QO-EPE		—				—		
	Bolt-on	QOB-GFI			QOB-VHGF	QOB-EPD QOB-EPE		—				QOM1-VH QOM2-VH		
	Unit Mount	—	—	—	—	—	—	QOU				QYU [10]	—	
Number of Poles	1	2	3	1	1	2	3	1	2	3	1	2	2	
Current Range (A)	15–30	15–60	15–50	15–30	15–30	15–60	15–50	10–100	10–125	10–100	10–30	50–125	100–225	
<b>Interrupting Ratings</b>														
UL/CSA Rating (kA RMS) (50/60 Hz)	120 Vac	10	10	—	22	10	10	—	10	10	10	—	22	22
	120/240 Vac	—	10	—	—	—	10	—	10	10	10	—	22	22
	208Y/120	—	—	10	—	—	—	—	—	—	—	—	—	—
	240 Vac [11]	—	—	—	—	—	—	10	—	—	10	—	—	—
	277 Vac	—	—	—	—	—	—	—	—	—	—	5	—	—
DC Ratings	480Y/277 Vac	—	—	—	—	—	—	—	—	—	—	—	—	—
	48 Vdc	—	—	—	—	—	—	5 [12]	5 [12]	5 [12]	—	—	—	—
	60 Vdc	—	—	—	—	—	—	5 [13]	5 [13]	5 [13]	—	—	—	—
	65 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—
	125 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—
	250 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—
IEC 60947-2 (50/60 Hz) Icu	500 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—
	240 Vac	—	—	—	—	—	—	—	—	—	—	—	—	—
	415 Vac	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Special Ratings</b>														
CCC	—	—	—	—	—	—	—	X [14]	X [14]	X [14]	—	—	—	—
Fed. Specs W-C-375B/GEN	X	—	—	—	X	—	—	X	X	X	X	X	X	X
Other Standard	NOM			—	NOM			HACR [15]				—	—	—
<b>Accessories and Modifications</b>														
Shunt Trip	—	—	—	—	—	—	—	X [16]	X [16]	X [16]	X [16]	—	—	X [16]
Undervoltage Trip	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Auxiliary Switches	X	X	X	X	X	X	X	X [16]	X [16]	X [16]	X [16]	—	—	—
Alarm Switch	X	X	X	X	X	X	X	X [16]	X [16]	X [16]	X [16]	—	—	—
Handle Operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Handle Padlock Attachment	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Trip System Type</b>														
Thermal-magnetic	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Molded Case Switch	—	—	—	—	—	—	—	—	X	X	—	—	—	—
<b>Dimensions (1P Unit Mount)</b>														
Dimensions (1P Unit Mount) in. (mm)	Height	4.12 (103)						4.05 (103)				5.09 (129) [17]	5.60 (142) [17]	
	Width	0.75 (19)						0.75 (19)				5.00 (127) [17]	5.07 (129) [17]	
	Depth	2.92 (74)						2.92 (74)				3.47 (88) [17]	3.60 (91) [17]	
Pages	page 7-11						page 7-18				See Section 1			

**NOTE:** All circuit breakers on this chart are UL Listed and CSA Certified unless otherwise noted.

[10] QYU is a UL 1077 supplementary protector.  
 [11] For information regarding 3Ø corner grounded systems see the Supplemental Digest, Section 3.  
 [12] 1P and 2P, 10–70 A and 3P 10–60 A only.  
 [13] QOU is UL Listed for 60 Vdc per pole 80–100 A, 1P; 80–125 A, 2P; and 70–100 A, 3P.  
 [14] 15–70 A 1P and 2P, 15–60 A 3P  
 [15] HACR on QOU 1P and 3P 15–100 A, 2P 15–125 A;  
 [16] Factory-installed option only.  
 [17] QOM1 and QOM2 dimensions are for 2-pole unit.

**Low Ampere QOU Miniature Circuit Breakers**

QOU unit mount miniature circuit breakers (cable-in/cable-out) are ideal for OEM applications. They have the Square D™ circuit breaker’s unique Visi-Trip™ feature and can be DIN rail-mounted or surface- or flush-mounted using mounting feet. Mounting feet not provided [30].



Low Ampere QOU

**General Specifications Common to All Low Ampere QOU Circuit Breakers**

- For convenient flush mount, surface mount or DIN mount (symmetrical rail 35 x 7.5 DIN/EN 50 022)
- Single handle with internal common trip
- Terminal lug wire size (1) 14–2 AWG Cu or Al
- Reversible line and load lugs
- Field-installable quick connectors
- UL Listed 48 Vdc (5 k AIR)
- UL Listed as HACR Type: 10–70 A
- High magnetic trip circuit breakers (QOU-HM) are recommended for applications where high initial inrush may occur and for individual dimmer applications.
- For DIN mounting rails, see IEC Starters and Relays, Section 18.

**Table 7.22: QOU Low Ampere Miniature Circuit Breakers**

Ampere Rating	Cat. No.			
	1P 120/240 Vac	2P 120/240 Vac	2P 240 Vac [31]	3P 240 Vac
<b>10 k AIR</b>				
10 A	QOU110	QOU210	—	QOU310
15 A	QOU115	QOU215	QOU215H	QOU315
20 A	QOU120	QOU220	QOU220H	QOU320
25 A	QOU125	QOU225	QOU225H	QOU325
30 A	QOU130	QOU230	QOU230H	QOU330
35 A	QOU135	QOU235	—	QOU335
40 A	QOU140	QOU240	—	QOU340
45 A	QOU145	QOU245	—	QOU345
50 A	QOU150	QOU250	—	QOU350
60 A	QOU160	QOU260	—	QOU360
70 A	QOU170	QOU270	—	QOU370
<b>22 k AIR</b>				
15 A	QOU115VH	QOU215VH	—	QOU315VH
20 A	QOU120VH	QOU220VH	—	QOU320VH
25 A	QOU125VH	QOU225VH	—	QOU325VH
30 A	QOU130VH	QOU230VH	—	QOU330VH
35 A	QOU135VH	QOU235VH	—	—
40 A	QOU140VH	QOU240VH	—	—
45 A	QOU145VH	QOU245VH	—	—
50 A	QOU150VH	QOU250VH	—	—
60 A	QOU160VH	QOU260VH	—	—

**Table 7.23: QOU-HM Miniature Circuit Breakers (10 k AIR)**

Ampere Rating	Cat. No.			
	1P 120/240 Vac	2P 120/240 Vac	2P 240 Vac	3P 240 Vac
15 A	QOU115HM	—	—	—
20 A	QOU120HM	—	—	—

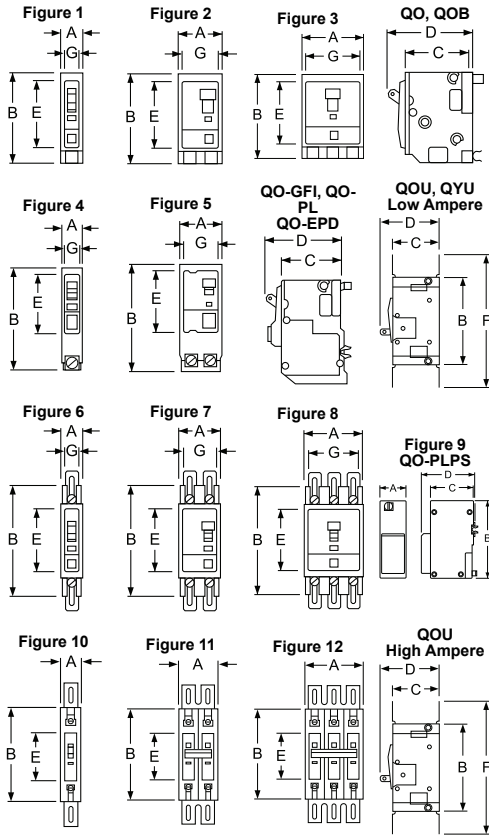
**Table 7.24: QYU UL1077 Recognized Supplementary Protectors (5 k AIR)**

Ampere Rating	Cat. No.			
	1P 277 Vac	2P 120/240 Vac	2P 240 Vac	3P 240 Vac
10 A	QYU110	—	—	—
15 A	QYU115	—	—	—
20 A	QYU120	—	—	—
25 A	QYU125	—	—	—
30 A	QYU130	—	—	—

[30] See QOU Accessories, page 7-20.  
[31] QOU-H interrupting rating is 10 kA at 240 Vac.

**Miniature and Molded Case Circuit Breaker Dimensions**

**Table 7.148: QO™, QOU, Multi 9™ Circuit Breakers**



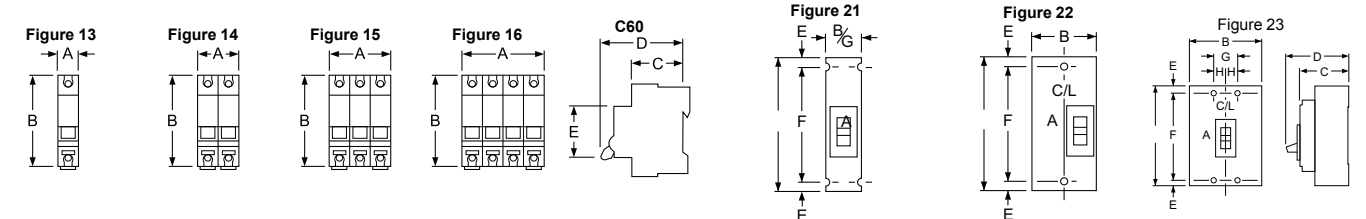
Circuit Breaker Cat. No. Prefix	Poles	Fig. No.	Dimensions—Inches						
			A	B	C	D	E	F	G
QO, QOB	1	1	0.75	3.00 <sup>[1]</sup>	2.31	2.91	2.25	—	0.59
	2	2	1.50	3.00 <sup>[1]</sup>	2.31	2.91	2.25	—	1.34
	3	3	2.25	3.00 <sup>[1]</sup>	2.31	2.91	2.25	—	2.09
QOB-VH 150 A QOB-VH 110–150 A	2	2	3.0	5.72	2.53	4.90	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 <sup>[2]</sup>	2.31	2.91	2.25	—	0.59
	2	5	1.50	4.12 <sup>[2]</sup>	2.31	2.91	2.25	—	1.34
	3	5	2.25	4.12 <sup>[2]</sup>	2.31	2.91	2.25	—	2.09
QOU QYU Low Ampere	1	6	0.75	4.05 <sup>[3]</sup>	2.38	2.98	2.25	5.00 <sup>[4]</sup>	0.62
	2	7	1.50	4.05 <sup>[3]</sup>	2.38	2.98	2.25	5.00 <sup>[4]</sup>	1.37
	3	8	2.25	4.05 <sup>[3]</sup>	2.38	2.98	2.25	5.00 <sup>[4]</sup>	2.12
QOU High Ampere	1	10	0.75	4.45	2.37	2.96	2.25	6.78	—
	2	11	1.50	4.45	2.37	2.96	2.25	6.78	—
	3	12	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	—	—
QO-PLPS Power Supply	2	9	1.45	4.35	2.42	3.11	—	—	—

**Table 7.149: QB, QD, QG, QJ, Q4, FA, LA, Circuit Breakers**

Circuit Breaker Cat. No. Prefix	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	6 <sup>[6]</sup>	4.25	—	—
	3	23	6.47	4.50	3.02	3.93	6 <sup>[6]</sup>	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
Q4L, LAL, LHL	2 & 3	23	11.00	6.00	4.06	5.84	0.88	9.25	2.00	1.00

**Table 7.150: Shipping Weights<sup>[7]</sup>**

Frame Size	Approx. Shipping Weight (Lbs.)	Frame Size	Approx. Shipping Weight (Lbs.)
FAL, FHL 1P	2	QB, QD, QG, QJ	4
FAL, FHL 2P	3	LAL, LHL	15
FAL, FHL 3P	5	Q4L	15



[1] 35–70 A is 3.12 in; 80–100 A 2P and 70–100 A 3P are 3.50 in.  
 [2] QO-PL is 4.55 in.  
 [3] 80–100 A 1P and 80–125 A 2P are 4.45 in.  
 [4] 80–100 A 1P and 80–125 A 2P are 6.78 in.  
 [5] 70–100 A is 6.78 in.  
 [6] Dimensions E are 1.59 in at ON end and 0.63 in at OFF end.  
 [7] All weights are for 3P circuit breakers unless otherwise noted.