

QO Standard Plug-On Circuit Breakers

Square D brand QO miniature circuit breakers are plug-on products for use in QO load centers, NQOD and NQ panelboards, NQOD and NQ OEM interiors or Speed-D™ switchboard distribution panels. Bolt-on QOB circuit breakers are for use in NQOD and NQ panelboards or interiors. [1]

The Square D exclusive Qwik-Open™ mechanism, with a trip reaction within 1/60th of a second, is standard on all 1P 15 and 20 A QO circuit breakers.

Table 1.1: Standard QO Plug-On Circuit Breakers

Amperes Rating [2]	1P—120/240 Vac	2P—120/240 Vac Common Trip	2P—240 Vac [3] Common Trip	3P—240 Vac Common Trip
10 k AIR				
10 A	QO110	QO210	—	QO310
15 A	QO115 [4] [5]	QO215 [4]	QO215H	QO315 [4]
20 A	QO120 [4] [5]	QO220 [4]	QO220H	QO320 [4]
25 A	QO125 [4]	QO225 [4]	QO225H	QO325 [4]
30 A	QO130 [4]	QO230 [4]	QO230H	QO330 [4]
35 A	QO135 [4]	QO235 [4]	—	QO335 [4]
40 A	QO140 [4]	QO240 [4]	QO240H	QO340 [4]
45 A	QO145 [4]	QO245 [4]	—	QO345 [4]
50 A	QO150 [4]	QO250 [4]	QO250H	QO350 [4]
60 A	QO160 [4]	QO260 [4]	QO260H	QO360 [4]
70 A	QO170 [4]	QO270 [4]	QO270H	QO370 [4]
80 A	—	QO280 [4]	QO280H	QO380 [4]
90 A	—	QO290 [4]	QO290H	QO390 [4]
100 A	—	QO2100 [4]	QO2100H	QO3100 [4]
110 A	—	QO2110 [4]	—	—
125 A	—	QO2125 [4]	—	—
150 A	—	QO2150 [4] [6] [7]	—	—
175 A	—	QO2175 [4] [6] [7]	—	—
200 A	—	QO2200 [4] [6] [7]	—	—
Molded Case Switch 60 A max.—240 Vac	—	—	QO200	QO300
Molded Case Switch 100 A max.—240 Vac	—	—	QO2000 [8]	QO3000 [8]
22 k AIR [4]				
15 A	QO115VH [5]	QO215VH [9]	—	QO315VH [9]
20 A	QO120VH [5]	QO220VH [9]	—	QO320VH [9]
25 A	QO125VH	QO225VH [9]	—	QO325VH [9]
30 A	QO130VH	QO230VH [9]	—	QO330VH [9]
40 A	QO140VH	QO240VH [9]	—	QO340VH [9]
50 A	QO150VH	QO250VH [9]	—	QO350VH [9]
60 A	QO160VH	QO260VH [9]	—	QO360VH [9]
70 A	QO170VH	QO270VH [9]	—	QO370VH [9]
80 A	—	QO280VH [9]	—	QO380VH [9]
90 A	—	QO290VH [9]	—	QO390VH [9]
100 A	—	QO2100VH [9] [10]	—	QO3100VH [9]
110 A	—	QO2110VH [9] [10]	—	—
125 A	—	QO2125VH [9] [10]	—	—
150 A	—	QO2150VH [6] [9] [7]	—	—
175 A	—	QO2175VH [6] [9] [7]	—	—
200 A	—	QO2200VH [6] [9] [7]	—	—
42 k AIR [4]				
40 A	—	QOH240 [8]	—	—
45 A	—	QOH245 [8]	—	—
50 A	—	QOH250 [8]	—	—
60 A	—	QOH260 [8]	—	—
70 A	—	QOH270	—	—
80 A	—	QOH280	—	—
90 A	—	QOH290	—	—
100 A	—	QOH2100	—	—
110 A	—	QOH2110 [8]	—	—
125 A	—	QOH2125	—	—
65 k AIR [4]				
15 A	QH115 [5]	QH215	—	QH315 [4]
20 A	QH120 [5]	QH220	—	QH320
25 A	QH125 [8]	QH225 [8]	—	QH325 [8]
30 A	QH130	QH230	—	QH330

Refer to page for Interrupting Ratings, Accessories, and Dimensions.



QO 1P
1 Space Required



QO 2P
2 Spaces Required



QO 3P
3 Spaces Required



QO2200 2P 200 A
4 Spaces Required

[1] See Digest Section 1 for load centers, and Section 9 for panelboards and interiors.

[2] 10–30 A circuit breakers are suitable for use with 60°C or 75°C conductors. 35–125 A circuit breakers are suitable for use with 75°C conductors.

[3] UL Listed 5 k AIR on corner grounded Delta systems.

[4] UL 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.

[5] UL Listed as SWD (switching duty) rated. Suitable for switching 120 Vac fluorescent lighting loads.

[6] Requires four spaces (1 AWG–300 kcmil Al/Cu.) Suitable for switching 120 Vac fluorescent lighting loads.

[7] Not suitable for use in 3Ø panels. Use only in 1Ø panel rated 150 A or greater.

[8] Order only. Contact your local Field Office.

[9] UL Listed for use ahead of QO, QO-GFI, QO-EPD, QOT, QO-AFI, and QO-PL 10 k AIR circuit breakers to permit their application at 22 kA fault level.

[10] 100 A maximum branch mounted opposite.

Table 1.80: All-in-One Combination Service Entrance Devices

Surface and Semiflush Mount ^[61]																
Ring Type, Homeline																
300 A	Class 320 Manual	UG	—	25 kA	SU3040D300CB ^{[62][63]} ^[64]	1	QDL22200 ^[65] QDL, QGL, QJL ^[66]	200 A 100 A	30	40	10	200 A	A-L	(2) Studs	4-250	100, 4
					SU3040D300FB ^{[62][63]} ^[64]											
400 A	None	UG	UG	25 kA	SU3040D400CN ^[62] ^[63]	1	QDL22200 ^[65] QDL, QGL, QJL ^[66]	200 A 200 A	30	40	10	200 A	A-L	(2) Studs	4-250	100, 4
					SU3040D400FN ^{[62][63]} ^[64]											
400 A	Class 320 Manual	UG	—	25 kA	SU3040D400CB ^{[62][63]} ^[64]	1	QDL22200 ^[65]	200 A	30	40	10	200 A	A-L	(2) Studs	4-250	100, 4
					SU3040D400FB ^{[62][63]} ^[64]											
Ringless, Homeline																
400 A	Class 320 Lever	UG	—	25 kA	RU3040D400CL ^{[63][67]} ^[64]	1	QDL22200 ^[65]	200 A	30	40	10	200 A	A-L	(2) Studs	4-250	100, 4
					RU3040D400FL ^{[63][67]} ^[64]											
400 A	K-4 Bolt-on	UG	—	25 kA	RU3040D400CK ^[63] ^[64]	1	QDL22200 ^[65] QDL, QGL, QJL ^[66]	200 A 200 A	30	40	10	200 A	A-L	(2) Studs	4-250	100, 4
					RU3040D400FK ^{[63][64]}											

LOAD CENTERS 1

Circuit Breakers for CSEDs

Table 1.81: Circuit Breakers for use with Meter Mains and All-In-One Devices

Ampere Rating ^[68]	Type: HOM, 1P	Type: HOM, 2P	Type: QO, 1P	Type: QO, 2P	Type: QO-VH, 1P	Type: QO-VH, 2P
	Cat. No. (DE3D)	Cat. No. (DE3D)	Cat. No. (DE2A)	Cat. No. (DE2A)	Cat. No. (DE2A)	Cat. No. (DE2A)
10	—	—	QO110	—	—	—
15	HOM115	—	QO115	—	QO115VH	—
20	HOM120	—	QO120	—	QO120VH	—
25	HOM125	—	QO125	—	QO125VH	—
30	HOM130	HOM230	QO130	QO230	QO130VH	QO230VH
35	—	HOM235	QO135	QO235	—	—
40	HOM140	HOM240	QO140	QO240	—	QO240VH
45	—	HOM245	QO145	QO245	—	—
50	HOM150	HOM250	QO150	QO250	—	QO250VH
60	—	HOM260	QO160	QO260	—	QO260VH
70	—	HOM270	QO170	QO270	—	QO270VH
80	—	HOM280	—	QO280	—	QO280VH
90	—	HOM290	—	QO290	—	QO290VH
100	—	HOM2100	—	QO2100	—	QO2100VH
110	—	HOM2110	—	QO2110	—	QO2110VH
125	—	HOM2125	—	QO2125	—	QO2125VH
150	—	HOM2150BB	—	QO2150	—	QO2150VH
175	—	HOM2175BB	—	QO2175	—	QO2175VH
200	—	HOM2200BB	—	QO2200	—	QO2200VH

Ampere Rating ^[68]	Type: QOM1-VH, 2P	Type: QOM2-VH, 2P	Type: QDL, 2P ^[69]
	Cat. No. (DE3D)	Cat. No. (DE3D)	Cat. No. (DE2A)
50	QOM50VH ^[70]	—	—
60	QOM60VH	—	—
70	QOM70VH	—	QDL22070
80	QOM80VH	—	QDL22080
90	QOM90VH	—	QDL22090
100	QOM100VH	QOM2100VH	QDL22100
110	QOM110VH	—	QDL22110
125	QOM125VH	QOM2125VH	QDL22125
150	—	QOM2150VH	QDL22150
175	—	QOM2175VH	QDL22175
200	—	QOM2200VH	QDL22200
225	—	QOM2225VH	—

^[61] UL short circuit current rating is equal to the lowest interrupting rating of any circuit breaker installed.
^[62] For use only on 120/240 Vac 1Ø3W system (4-jaw meter socket).
^[63] Knockout provided in cover for use with barrel lock kit SCBRLLLOCK (see Accessories).
^[64] Device configuration is not included in EUSERC standards. Consult applicable utility for acceptance.
^[65] Service disconnect supplied factory-installed.
^[66] Additional service disconnect for field-installation: order prefix QBL at 10 kA, QDL at 25 kA, QGL at 65 kA, or QJL at 100 kA. Order separately. For complete circuit breaker catalog number, see Digest Section 7.
^[67] 5th jaw factory-installed.
^[68] Do not exceed mains rating of device
^[69] For additional interrupting rating circuit breakers, order circuit breaker prefix QBL at 10 kA, QGL at 65 kA or QJL at 100 kA.
^[70] Reference National Electrical Code Article 230-79.