QO® Standard and Tandem Circuit Breakers

Plug-On Circuit Breakers - Amperes Interrupting Rating (AIR) in Amperes RMS Symmetrical

Ampere Rating Δ	One Pole - 120/240Vac	Two Pole - 120/240Vac Common Trip	Three Pole - 240Vac Common Trip
10,000 AIR			
10	QO110	QO210	QO310
15	QO115◆▲	QO215◆	QO315◆
15	QO115HM◆▲‡	–	–
20	QO120◆▲	QO220◆	QO320◆
20	QO120HM◆▲‡	–	–
25	QO125	QO225◆	QO325◆
30	QO130◆	QO230◆	QO330◆
35	QO135◆	QO235◆	QO335◆
40	QO140◆	QO240◆	QO340◆
45	QO145◆	QO245◆	QO345◆
50	QO150◆	QO250◆	QO350◆
60	QO160◆	QO260◆	QO360◆
70	QO170◆	QO270◆	QO370
80	–	QO280	QO380
90	–	QO290	QO390
100	–	QO2100	QO3100
110	–	QO2110	–
	–	QO2125 No DC rating	–
125	–	QO2150◆▼	–
	–	QO2175◆▼	–
	–	QO2200◆▼	–
22,000 AIR			
15	QO115VH▲	QO215VH	QO315VH
20	QO120VH▲	QO220VH	QO320VH
25	QO125VH	QO225VH	QO325VH
30	QO130VH	QO230VH	QO330VH
40	–	QO240VH	QO340VH
50	–	QO250VH	QO350VH
60	–	QO260VH	QO360VH
70	–	QO270VH	QO370VH
80	–	QO280VH	QO380VH
90	–	QO290VH	QO390VH
100	–	QO2100VH	QO3100VH
110	–	QO2110VH	–
	–	QO2125VH	–
125	–	QO2150VH❒◆▼	–
	–	QO2175VH❒◆▼	–
	–	QO2200VH❒◆▼	–
42,000 AIR			
40		QOH240	
45		QOH245	
50	–	QOH250	–
60	–	QOH260	–
70	–	QOH270	–
80	–	QOH280	–
90	–	QOH290	–
100	–	QOH2100	–
110	–	QOH2110	–
125		QOH2125	
65,000 AIR			
15	QH115▲	QH215	QH315
20	QH120▲	QH220	QH320
25	QH125	QH225	QH325
30	QH130	QH230	QH330

QO One Pole

1 Space Required

QO One Pole Tandem

1 Space Required

QO Two Pole

2 Spaces Required

QO Three Pole

3 Spaces Required

Tandem (Dual) Circuit Breakers 10,000 AIR

Ampere Rating Δ	One Pole - 120/240Vac	Two Single Pole Individual Trip - 120/240Vac
	1 Space Required	2 Spaces Required
15 & 15	QO1515◆	Order Two QO1515 or QO2020 Circuit Breakers and Handle Tie Catalogue # QOTHT.
15 & 20	QO1520◆	
15 & 30	QO1530◆	
20 & 15	QO2015◆	
20 & 20	QO2020◆	
20 & 30	QO2030◆	
30 & 15	QO3015◆	
30 & 20	QO3020◆	
30 & 30	QO3030◆	

Δ 10-30 ampere breakers are suitable for use with 60˚C or 75˚C conductors. 35-125 ampere breakers are suitable for use with 75˚C conductors.
‡ **High magnetic** trip breakers are recommended for applications where high initial inrush current may occur.
▲ SWD (switching duty) rated. Suitable for switching 120Vac fluorescent lighting loads.
◆ HACR type for use with air conditioning, heating and refrigeration equipment having motor group combinations and marked for use with HACR type circuit breakers. HACR labelled one pole QO breakers not stocked. Order Only. Add suffix -5385.
▼ Requires four spaces (#1-300 kcmil Al/Cu). Not suitable for use in 3-phase panel. Use only in single phase panel rated 150A or greater.
❒ CSA Listed for use ahead of QO, QO-GFI, QO-EPD, QOT and QO-PL 10,000 AIR circuit breakers to permit their application at 22,000A fault level.

Application Information

- VISI-TRIP indication on all QO breakers.
- QO, VISI-TRIP and QWIK-GARD are registered trademarks of Square D.
- For more information consult Schneider Electric.
- Accessories page DE1-11.
- Add suffix 35 for 50°C calibration - 20% price adder.

QO® Loadcentres and Circuit Breakers

QO® Special Breakers

Plug-On Circuit Breakers - Amperes Interrupting Rating (AIR) in Amperes RMS Symmetrical

One Pole
QO-AFI

One Pole
QO-GFI

Two Pole
QO-GFI

QO One Pole
with Shunt Trip

QOK Key
Operated

QO-GFI QWIK-GARD® circuit breakers provide overload and short circuit protection, combined with Class A ground fault protection. Class A denotes a ground fault circuit interrupter that will trip when a fault current to ground is 6 milliamperes or more, for people protection. Do not connect to more than 250 feet of load conductor for the total one-way run to prevent nuisance tripping.

Ampere Rating Δ	One Pole 120Vac		Two Pole-Common Trip 120/240Vac
	10,000 AIR	22,000 AIR	10,000 AIR
15	QO115GFI	QO115VHGFI	QO215GFI
20	QO120GFI	QO120VHGFI	QO220GFI
25	QO125GFI	QO125VHGFI	QO225GFI
30	QO130GFI	QO130VHGFI	QO230GFI
40	—	—	QO240GFI
50	—	—	QO250GFI
60	—	—	QO260GFI❖

❖ **Suitable only for feeding 240Vac and 208Vac 2 wire loads. Does not contain load neutral connection.**

QO-EPD QO Circuit Breakers With 30 mA Equipment Ground Fault Protection

Ampere Rating Δ	One Pole 120Vac	Two Pole-Common Trip 120/240Vac
	10,000 AIR	10,000 AIR
15	QO115EPD	QO215EPD
20	QO120EPD	QO220EPD
25	QO125EPD	QO225EPD
30	QO130EPD	QO230EPD
40	—	QO240EPD
50	—	QO250EPD
60	—	QO260EPD

QO-K Key operated QO circuit breakers are available in single pole construction and can be mounted in any single pole space which will accept a standard QO. These circuit breakers can be turned ON or OFF or to RESET with a special key (Catalogue Number **QOK10**) included with the circuit breaker.

Ampere Rating Δ	One Pole 120Vac 10,000 AIR
10	QO110K
15	QO115K
20	QO120K
30	QO130K

QO-HM QO circuit breaker with high magnetics to withstand higher inrush currents than standard QO breaker.

Ampere Rating	One Pole 120Vac 10,000 AIR
15	QO115HM
20	QO120HM

Note:
QO GFI, EPD, AFI cannot be backfed.

Circuit Breaker Wire Sizes

Breaker Type	Ampere Rating Δ	Wire Size (AWG)	
		Aluminum	Copper
QO 1 Pole	10-30	#14-8	#14-8
	10-30	—	(2) #14-10
	35-70	#8-2	#8-2
QO 2 & 3 Pole	10-30	#14-8	#14-8
	35-70	#8-2	#8-2
	80-125	#12-2/0	#12-2/0
QOT	15-20	#12-8	#14-8
QO-GFI & QO-EPD	15-30	#12-8	#14-8
	40-60	#12-4	#14-6

QO-HID **QO-HID Circuit Breakers - For Use on High Intensity Discharge Lighting Systems**

HID circuit breakers are for use on circuits feeding fluorescent and High Intensity Discharge (HID) lighting systems such as mercury vapour, metal halide, or high pressure sodium. These circuit breakers are physically interchangeable with QO circuit breakers.

Ampere Rating Δ	One Pole 120/240Vac	Two Pole-Common Trip 120/240Vac	Three Pole-Common Trip 240Vac
	10,000 AIR	10,000 AIR	10,000 AIR
15	QO115HID▲	QO215HID	QO315HID
20	QO120HID▲	QO220HID	QO320HID
25	QO125HID	QO225HID	QO325HID
30	QO130HID	QO230HID	QO330HID
40	QO140HID	QO240HID	—
50	QO150HID	QO250HID	—

QO-AFI **QO Arc Fault Circuit Interrupters (10,000 AIR)**

Ampere Rating	Poles 120Vac	Catalogue Number
15	1	QO115AFI / QO115CAFI✱
20	1	QO120AFI / QO120CAFI✱

Circuit Breaker Factory Installed Accessories

Requires Additional Pole Space. Only one accessory per breaker. QO accessory terminals for (2) #14-12 Cu. Accessories are not available for Q2, QOM1, or QOB-VH (110-150 A) circuit breakers or QO molded case switches.

Factory Installed Accessories	Available On Breaker	Description	Add Suffix To Breaker Catalogue No.
Shunt Trip	QO	120Vac 208Vac 240Vac	1021
		12Vac 24Vdc 12Vdc 24Vac	1042
Auxiliary Switch	QO,-GFI,-EPD,	"A" Contact	1200
		"B" Contact	1201
Alarm Switch	QO,-GFI,-EPD,	120Vac	2100

Δ 10-30 ampere breakers are suitable for use with 60˚C or 75˚C conductors, 35-60 ampere breakers are suitable for use with 75˚C conductors.
▲ SWD (switching duty) rated. Suitable for switching 120Vac fluorescent lighting loads.
✱ Combination AFI devices provide protection against both high-energy parallel arcing (same as existing branch/feeder AFCI's) and low energy (5A) series arcing.

Application Information

- VISI-TRIP indication on all QO breakers.
- QO, VISI-TRIP and QWIK-GARD are registered trademarks of Square D.
- For more information consult Schneider Electric.

QO® Main Lugs Loadcentres - Type 1 Indoor

QO® Main Lugs Loadcentres (1Ø - 3W)

Mains Ampere Rating	Number of Circuits: Standard QO	Number of Circuits: Tandem QO	Loadcentre Catalogue Number	Series	Trim Catalogue Number	Main Wire Size Al or Cu (AWG/MCM)	Box Size (see page 14)
30	1	2	QO1L30S●	001	Included	12-10 Al or 14-10 Cu	1
	2	4	QO2L30SC●	G01	Included	12-10 Al or 14-10 Cu	2
70	2	4	QO2L70S✚ Δ	G01	Included	12-3 Al or 14-4 Cu	3
100	4	8	QO4L100S▲■	G03	Included	8-1	4
	6	12	QO6L100S/F■	G03	Included	8-1	4
	8	15	QO8L100S/F■	G03	Included	8-1	4
	12	24	CQO112L100GC	S01	Included	4-1	6
	16	32	CQO116L100GC	S01	Included	4-1	7
125	24	48	CQO124L125GC	S01	Included	4 - 2/0	8
	32	48	CQO132L125GC	S01	Included	4 - 2/0	9
	40	48	CQO140L125GC	S01	Included	4 - 250	11
200	32	64	CQO132L200GC	S01	Included	4 - 250	11
	40	80	CQO140L200GC	S01	Included	4 - 250	11
225	42	80	CQO142L225GC	S01	Included	4 - 300	12
	60	80	CQO160L225GC	S01	Included◆	4 - 300	14

QO® Main Lugs Loadcentres (3Ø - 4W)

Mains Ampere Rating	Number of Circuits: Standard QO	Number of Circuits: Tandem QO	Loadcentre Catalogue Number	Series	Trim Catalogue Number	Main Wire Size Al or Cu (AWG/MCM)	Box Size (see page 14)
100	3▼		QO403L100S Δ	G01	Included	12-1 Al or 14-1 Cu	5
125	12▼	24	QO312ML1	S01	QOC16UC	4 - 2/0	7
125	20▼	40	QO320ML1	S01	QOC24UC	4 - 2/0	8
200	24▼	48	QO324ML2	S01	QOC30UC	4 - 250	10
	30▼	60	QO330ML2	S01	QOC30UC	4 - 250	10
225	42▼	60	QO342ML2	S01	QOC42UC	4 - 300	12

QO® Generator Panel (1Ø - 3W)

Mains Ampere Rating	Total Number of Circuits: Standard QO	Total Number of Circuits: Tandem QO	Number of circuits available for (generator) critical loads: Standard QO	Number of circuits available for (generator) critical loads: Tandem QO	Loadcentre Catalogue Number	Main Wire Size Al or Cu (AWG/MCM)	Box Size (see page 14)
30			4	8	CQO48M30DSGP	#14-8	4
60			4	8	CQO48M60DSGP	#8-2	4
30			18	36	QOGP3P3036	#14-8	6
60			18	36	QOGP3P6036	#8-2	6
QO® 'all-in-one' SE Generator Panels							
200	40	80	18	36	QOGP3P604436200	#4-250	12
150	40	80	18	36	QOGP3P604436150	#4-250	12
125	40	80	18	36	QOGP3P604436125	#4-250	12
100	40	80	18	36	QOGP3P604436100	#4-250	12

Δ Service entrance approved.
● Will not accept QO-GFI or QO-EPD breakers.
✚ Maximum 20A QO-GFI breaker or AFI breaker.
▲ Maximum 70A branch breaker.
◆ Does not include a door.
■ 70 amp max Branch Breaker.
▼ Shunt trip feature not available on any 3Ø loadcentres. Feed-thru lugs cannot be added in filed-use QO3125SL to feed-thru to another loadcentre.

- Bus on 2-8 cct loadcentres is one piece, solid aluminum.
- Bus on 12-60 cct loadcentres is one piece, tin plated copper
- Neutral terminals, main and ground lugs on all devices are Aluminum.
- QODK60-2 door kit can be installed on 60A main lug loadcentre.

Application Information

- All loadcentres are suitable for both flush or surface mounting, unless suffixed:
  - F - flush mounting only.
  - S - surface mounting only.
- All Type 1 loadcentres are approved for vertical, horizontal, or inverted mounting.
- All 100A loadcentres are approved for 100A max. QO branch circuit breakers.
- All 125A loadcentres are approved for 125A max. QO branch circuit breakers.
- The maximum QO branch circuit breaker is 70 ampere (single pole), 200 ampere (two pole) and 100 ampere (three pole). Two pole QO breakers rated 150 - 200 ampere are restricted to Square D QO Single Phase load center, Series G1.
- Main lugs loadcentres cannot be field converted to service entrance approved, main breaker loadcentres.
- QO is a registered trademark of Square D.
- For more information, consult Schneider Electric.
- GC includes ground bar combination surface/flush cover.

QO® Loadcentres and Circuit Breakers

QO® Main Breaker Loadcentres - Type 1 Indoor

Main Breaker Loadcentres (1PH - 3W)

Bus Ampere Rating	Main Breaker Amps	Number of Circuits		Loadcentre Catalogue Number	Series	Trim Catalogue Number	Main Wire Size Al/Cu (AWG/MCM)	Box Size (see page 14)
		Standard QO	Tandem QO					
Main Breaker Factory Installed								
100	60	12	24	CQO112M100C60	S01	Included	4 - 1	6
100	100	12	24	CQO112M100C100	S01	Included	4 - 1	6
100	60	16	32	CQO116M100C60	S01	Included	4 - 1	7
100	100	16	32	CQO116M100C100	S01	Included	4 - 1	7
125	60	24	48	CQO124M125C60	S01	Included	4 - 2/0	8
125	100	24	48	CQO124M125C100	S01	Included	4 - 2/0	8
125	100	32	54	CQO132M125C100	S01	Included	4 - 2/0	9
125	125	32	54	CQO132M125C125	S01	Included	4 - 2/0	9
125	100	40	54	CQO140M125C100	S01	Included	4 - 2/0	11
125	125	40	54	CQO140M125C125	S01	Included	4 - 2/0	11
Main Breaker Factory Installed								
200	200	32	64	CQO132M200C	S01	Included	4 - 250	11
		40	80	CQO140M200C	S01	Included	4 - 250	11
225	200	60	80	CQO160M200C●	S01	Included◆	4 - 300	14

Main Breaker Loadcentres (3Ø - 4W)

Bus Ampere Rating	Main Breaker Amps	Number of Circuits		Loadcentre Catalogue Number	Series	Trim Catalogue Number	Main Wire Size Al or Cu (AWG/MCM)	Box Size (see page 14)
		Standard QO	Tandem QO					
Main Breaker Factory Installed (QO3100VH & QDL32200)								
100	100	24	30	QO324MB100	S01	QOC30UC	4 - 250	10
200	200	42	60	QO342MQB200	S01	QOC342UQC	4 - 250	13

Main Breakers

Main Breaker Frame Size	Amperage ✚	kAIC	Catalogue Number	Lug Wire Size AWG/KCMIL Al or Cu
QOM1 Δ	30	10	QOM30L	#12-2/0
	40		QOM40L	
	50		QOM50L	
	60		QOM60L	
	50	22	QOM50VHL	#4-2/0
	60		QOM60VHL	
	70		QOM70VHL	
	100		QOM100VHL	
	125		QOM125VHL	
QOM2▲ Δ	100	22	QOM2100VHL	#4-250
	125		QOM2125VHL	
	150		QOM2150VHL	
	200		QOM2200VHL	
	225		QOM2225VHL	

◆ Does not include a door. Order kit # QODK60-2.

● Rated 200A maximum with Aluminum conductors and 225A maximum with Copper conductors.

▲ Add suffix - 1021 for 240Vac shunt trip. Factory Installed Accessory

✚ Do not exceed the load centre mains rating.

Δ Main Breakers include factory installed handle padlock attachment (padlock QOM main circuit breaker in the 'off' position).

- Bus on all devices is one-piece, solid copper, standard.
- Neutral terminals, main and ground lugs on all devices are Aluminum, standard.

Application Information

- All loadcentres are suitable for both flush or surface mounting.
- All Type 1 loadcentres are approved for vertical, horizontal, or inverted mounting.
- All 100A loadcentres are approved for 100A max. QO branch circuit breakers.
- All 125A loadcentres are approved for 125A max. QO branch circuit breakers.
- The maximum QO branch circuit breaker is 70 ampere (single pole), 200 ampere (two pole) and 100 ampere (three pole). Two pole QO breakers rated 150 - 200 ampere are restricted to Square D QO Single Phase load center, Series G1.
- Main Breaker loadcentres are approved for service entrance use. The main breaker compartment can be sealed and the main breaker can be locked.
- QO-L main breakers are 10 kAIC rated, QO-VHL main breakers are 22 kAIC rated.
- QO is a registered trademark of Square D.
- For more information, consult Schneider Electric.

QO® Main Lugs/Main Breaker Loadcentres - Type 3R Weatherproof

Main Lugs Loadcentres (1Ø - 3W)

Bus Ampere Rating	Number of Circuits: Standard QO	Number of Circuits: Tandem QO	Loadcentre Catalogue Number	Series	Trim Catalogue Number	Main Wire Size Al or Cu (AWG/MCM)	Box Size (see page 14)
70	2	4	QO2L70RB ✚ Δ ✗	G01	Included	12-3 Al or 14-4Cu	1RB
100	6	12	QO6L100RB	G03	Included	8-1	2RB
	8	15	QO8L100RB	G03	Included	8-1	2RB
	16	32	CQO116L100GRB	S01	Included	4-1	6RB
125	24	48	CQO124L125GRB	S01	Included	4-2/0	6RB
200	40	80	CQO140L200GRB	S01	Included	4-250	8RB

Main Lugs Loadcentres (3Ø - 4W)

Bus Ampere Rating	Number of Circuits: Standard QO	Number of Circuits: Tandem QO	Loadcentre Catalogue Number	Series	Trim Catalogue Number	Main Wire Size Al or Cu (AWG/MCM)	Box Size (see page 14)
100	3		QO403L100RB Δ	G01	Included	12-1 Al or 14-1 Cu	3RB
125	12	24	QO312ML1RB	S01	Included	4-2/0	4RB
125	20	40	QO320ML1RB	S01	Included	4-2/0	5RB
200	30	60	QO330ML2RB	S01	Included	4-250	7RB
225	42	60	QO342ML2RB	S01	Included	4-300	9RB

Main Breaker Loadcentres (1Ø - 3W)

Bus Ampere Rating	Main Breaker Amps	Number of Circuits: Standard QO	Number of Circuits: Tandem QO	Loadcentre Catalogue Number	Series	Trim Catalogue Number	Main Wire Size Al/Cu (AWG/MCM)	Box Size (see page 14)
Main Breaker Factory Installed								
100	60	8	16	CQO18M100RB60	S01	Included	4 - 1	4RB
100	100	16	32	CQO116M100RB100	S01	Included	4 - 1	6RB
125	100	24	48	CQO124M125RB100	S01	Included	4 - 2/0	6RB
Main Breaker Factory Installed								
200	200	40	80	CQO140M200RB	S01	Included	4-250	8RB

Non-Metallic Enclosure (1Ø - 3W) Type 3R

Bus Ampere Rating	Number of Circuits: Standard QO	Number of Circuits: Tandem QO	Loadcentre Catalogue Number	Trim Catalogue Number	Main Wire Size Al/Cu (AWG/MCM)	Box Size (see page 14)
60	2	4	CQO24L60NRNM	Included	#14-4 / #14-4	1NM
QO Hot Tub / Pool / Spa Pack						
20 to 60 amp non-metallic	2 pole QOGFCI factory installed into a type 3R enclosure		CQOE220GFINM			
			CQOE230GFINM			
			CQOE240GFINM			
			CQOE250GFINM			
			CQOE260GFINM▼			

✚ Maximum 20 A QO-GFI breaker.
▼ 60 amp, 2 wire 240V only. **Not for hot tubs with neutral connection.**
Δ Service Entrance approved for one or 2 pole branch circuit breaker.
✗ Not rated for 22k AIC.

- Bus on 2-8 cct loadcentres is one-piece, solid aluminum. (Excluding CQO18M100RB.)
- Bus on 8-42 cct, S-Series loadcentres is one-piece, solid copper.
- Neutral terminals, main and ground lugs on all devices are Aluminum.

Application Information

- All 100A loadcentres are approved for 100A max. QO branch circuit breakers.
- All 125A loadcentres are approved for 125A max. QO branch circuit breakers.
- The maximum QO branch circuit breaker is 70 ampere (single pole), 200 ampere (two pole) and 100 ampere (three pole). Two pole QO breakers rated 150 - 200 ampere are restricted to Square D QO Single Phase load center, Series G1..
- Main Breaker loadcentres are approved for service entrance use. The main breaker compartment can be sealed and the main breaker can be locked.
- Main lugs loadcentres cannot be field converted to service entrance approved, mainbreaker loadcentres.
- Weatherproof Loadcentres are supplied with main entry hole cut in top endwall and closing cap (BCAP) installed. Hole accepts 3/4 in. to 2 in. hubs. Gasket not required.
- QO is a registered trademark of Square D.