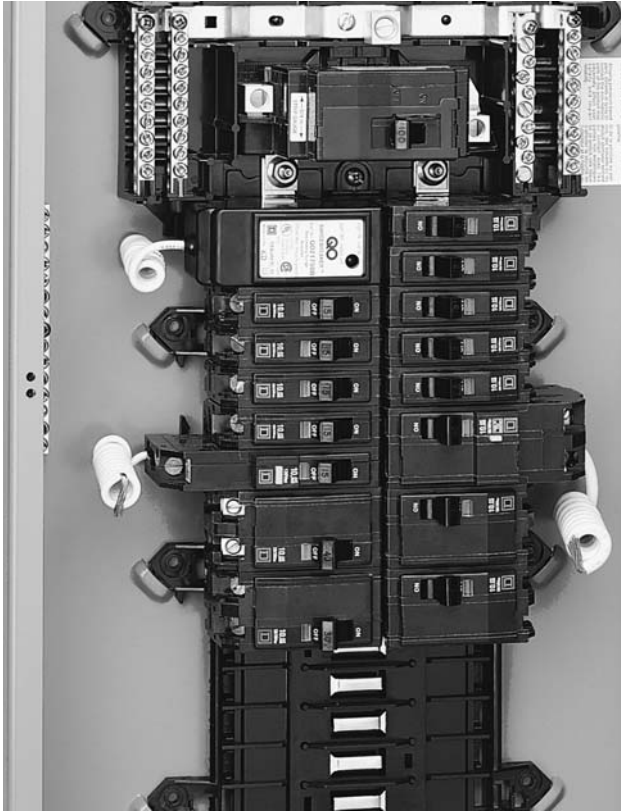


QO[®] Loadcentres and Circuit Breakers

General Information

QO[®] Circuit Breaker



- Branches:**
- QO - Plug-On Circuit Breakers
 - QO-GFI - Ground Fault Indication
 - QOT - Tandem Breakers
 - QO-EPD - Equipment Ground Fault Protection
 - QO-HID - High Intensity Discharge Lighting Systems
 - QO-K - Key Operated Breakers
 - QO-AFI - ARC Fault Circuit Interrupters
 - QO-HM - High Magnetics

- Features:**
- QWIK-OPEN[®] Circuit Breakers
 - VISI-TRIP[®] Indicator
 - Tandem Circuit Breakers feature two 1-Pole breakers in the space of a 1-Pole QO breaker
 - QO2175SB SURGEBREAKER[®] Secondary Surge suppressor
 - Shunt Trips, Auxiliary Switches, and Alarm Switches are all available factory installed

For additional information,

- QO & QOB Miniature Circuit Breakers Catalogue 0730CT9801R1/08.
- QO-EPD Catalogue 0950CT9601
- Square D Series Ratings Guide Catalogue D0110AB9801EP R0
- Secondary Surge Arresters Catalogue 6671CT9701R9/06

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.