

# QO® Loadcentres and Circuit Breakers

## QO® Standard and Tandem Circuit Breakers

DE1 LOAD CENTRES

### 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
<b>10,000 AIR</b>			
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◆▼	—
<b>22,000 AIR</b>			
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□◆▼	—
<b>42,000 AIR</b>			
40	—	QOH240	—
45	—	QOH245	—
50	—	QOH250	—
60	—	QOH260	—
70	—	QOH270	—
80	—	QOH280	—
90	—	QOH290	—
100	—	QOH2100	—
110	—	QOH2110	—
125	—	QOH2125	—
<b>65,000 AIR</b>			
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 DE1-10.
- Add suffix 35 for 50°C calibration - 20% price adder.

# 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	QO-VH	QO-VH	QO-VH	QH	QOT	QO-CAFI	QO-VHAFI	QO-GFI	QO-VHGFI	QO-EPD QO-EPE										
	Bolt-on	—	—	—	—	—	QOB	QOB-H	—	—	—	QOB-VH	QHB	—	QOB-CAFI	QOB-VHAFI	QOB-GFI	QOB-VHGFI	QOB-EPD QOB-EPE										
	Unit Mount	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
Number of Poles	1 2	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 2 3	1 2 3	1	1	1	1 2 3	1	1 2 3										
Current Range	15-50	15-200	15-20	15-20	15-50	15-20	15-50	15-50	10-70	10-200	10-100	15-100	15-30	15-125	15-100	15-30	15-150	15-30	15-30	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	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	22	22	22	22	22	65	65	10	—	—	—	10	—	—	—	10	—
	208Y/120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	240 Vac ★	—	—	—	—	—	—	—	—	—	—	10	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10
	277 Vac	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DC Ratings	480Y/277 Vac	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	48 Vdc	—	—	—	—	—	—	—	5▼	5▼	5▼	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	65 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	125 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	—	—
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	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	X
Alarm Switch ◇		—	—	—	—	—	—	—	X	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.

# QO™ and QOU Miniature Circuit Breakers

## QO™ Miniature Circuit Breakers

Class 730, 731, 733 / Refer to Catalog 0730CT9801

QO™ miniature circuit breakers are plug-on products for use in QO load centers, NQOD panelboards, NQOD OEM interiors or Speed-D™ switchboard distribution panels. Bolt-on QOB circuit breakers are for use in NQOD panelboards or interiors.▲  
The QO exclusive Qwik-Open™ mechanism, with a trip reaction within 1/60th of a second, is standard on all 1P 15 A and 20 A QO circuit breakers.

### Plug-On Circuit Breakers

Amperes Rating	1P—120/240 Vac		2P—120/240 Vac Common Trip		2P—240 Vac Common Trip		3P—240 Vac Common Trip	
	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
<b>10 k AIR</b>								
10 A	QO110		QO210		—		QO310	
15 A	QO115★▼		QO215★		QO215H		QO315★	
20 A	QO120★▼		QO220★		QO220H		QO320★	
25 A	QO125★		QO225★		QO225H		QO325★	
30 A	QO130★		QO230★		QO230H		QO330★	
35 A	QO135★		QO235★		—		QO335★	
40 A	QO140★		QO240★		QO240H		QO340★	
45 A	QO145★		QO245★		—		QO345★	
50 A	QO150★		QO250★		QO250H		QO350★	
60 A	QO160★		QO260★		QO260H		QO360★	
70 A	QO170★		QO270★		QO270H		QO370★	
80 A	—		QO280★		QO280H		QO380★	
90 A	—		QO290★		QO290H		QO390★	
100 A	—		QO2100★		QO2100H		QO3100★	
110 A	—		QO2110★		—		—	
125 A	—		QO2125★		—		—	
150 A	—		QO2150★△◇		—		—	
175 A	—		QO2175★△◇		—		—	
200 A	—		QO2200★△◇		—		—	
Molded Case Switch 60 A max.—240 Vac			—		QO200		QO300	
Molded Case Switch 100 A max.—240 Vac			—		QO2000★		QO3000★	
<b>22 k AIR★</b>								
15 A	QO115VH▼		QO215VH□		—		QO315VH□	
20 A	QO120VH▼		QO220VH□		—		QO320VH□	
25 A	QO125VH		QO225VH□		—		QO325VH□	
30 A	QO130VH		QO230VH□		—		QO330VH□	
40 A	—		QO240VH□		—		QO340VH□	
50 A	—		QO250VH□		—		QO350VH□	
60 A	—		QO260VH□		—		QO360VH□	
70 A	—		QO270VH□		—		QO370VH□	
80 A	—		QO280VH□		—		QO380VH□	
90 A	—		QO290VH□		—		QO390VH□	
100 A	—		QO2100VH◇		—		QO3100VH□	
110 A	—		QO2110VH◇		—		—	
125 A	—		QO2125VH◇		—		—	
150 A	—		QO2150VH△◇		—		—	
175 A	—		QO2175VH△◇		—		—	
200 A	—		QO2200VH△◇		—		—	
<b>42 k AIR★</b>								
40 A	—		QOH240★		—		—	
45 A	—		QOH245★		—		—	
50 A	—		QOH250★		—		—	
60 A	—		QOH260★		—		—	
70 A	—		QOH270		—		—	
80 A	—		QOH280		—		—	
90 A	—		QOH290		—		—	
100 A	—		QOH2100		—		—	
110 A	—		QOH2110★		—		—	
125 A	—		QOH2125		—		—	
<b>65 k AIR★</b>								
15 A	QH115▼		QH215		—		QH315★	
20 A	QH120▼		QH220		—		QH320	
25 A	QH125★		QH225★		—		QH325★	
30 A	QH130		QH230		—		QH330	

### QO-QOB Ring Terminal (20% \$ Price Adder)—Factory Installed Only

Ampere Rating	Poles	Suffix
10–30 A	1, 2, 3	5237
35–60 A	1, 2	
35–50 A	3	5238
70–110 A	2	
60–100 A	3	5273

### Wire Sizes

Circuit Breaker Type	Ampere Rating	Wire Size (AWG/kcmil)
QO 1P	10–30 A	14–8 Al/Cu
	10–30 A	(2) 14–10 Cu
	35–70 A	8–2 Al/Cu
QO 2P	10–30 A	14–8 Al/Cu
	10–30 A	(2) 14–10 Cu
	35–70 A	8–2 Al/Cu
	80–125 A	4–2/0 Al/Cu
QO 3P	10–30 A	14–8 Al/Cu, (2) 14–10 Cu
	35–70 A	8–2 Al/Cu
QOB-VH	110–150 A	4–300 Al/Cu
	15–20 A	12–8 Al 14–8 Cu
QOT	15–20 A	12–8 Al 14–8 Cu
QO-AFI, QO-GFI & QO-EPD	15–30 A	12–8 Al 14–8 Cu
	40, 50, 60 A	12–4 Al 14–6 Cu
QO-PL	10–60 A	12–2 Al 14–2 Cu

### Replacement Tandem Circuit Breakers

For Use in Old Style Non-Class CTL QO Load Centers—10 k AIR

Ampere Rating	Cat. No.★	\$ Price
<b>1P—120/240 Vac—1 Space Required</b>		
15 & 15 A	QO1515	
15 A & 20 A	QO1520	
20 A & 20 A	QO2020	
20 A & 30 A	QO2030	
30 A & 20 A	QO3020	
<b>Two 1P Individual Trip—120/240 Vac—2 Spaces Required</b>		
15 A & 15 A	Order Two QO1515 or QO2020 circuit breakers and handle tie QOHTT for common switching of center two poles.	
15 A & 20 A	—	—
20 A & 20 A	—	—
20 A & 30 A	QO20303020▼	
30 A & 20 A	—	—



QO 1P  
1 Space Required



QOT 1P Tandem  
1 Space Required



QO 2P  
2 Spaces Required



QO2200 2P 200 A  
4 Spaces Required



QO 3P  
3 Spaces Required

- ▲ See Section 1 for load centers, and Section 5 for panelboards and interiors.
  - 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.
  - ◆ CSA/UL Listed 5 k AIR on corner grounded Delta systems.
  - ★ CSA/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.
  - ▼ CSA/UL Listed as SWD (switching duty) rated. Suitable for switching 120 Vac fluorescent lighting loads.
  - △ Requires four spaces (1 AWG–300 kcmil Al/Cu.) Suitable for switching 120 Vac fluorescent lighting loads.
  - CSA/UL Listed for use ahead of QO, QO-GFI, QO-EPD, QO-AFI, QOT, QOCAFI, and QO-PL 10 k AIR circuit breakers to permit their application at 22 kA fault level.
  - ◇ 100 A maximum branch mounted opposite.
  - ★ Order only. Contact your local Field Office.
  - ▼ Includes two circuit breakers (one QO2030 and one QO3020) and handle tie QOHTT.
  - Not suitable for use in 3Ø panels. Use only in 1Ø panel rated 150 A or greater.
- Interrupting Ratings ..... Page DE3-2  
Accessories ..... Page DE3-12  
Dimensions ..... Page DE3-54