



QO Load Center

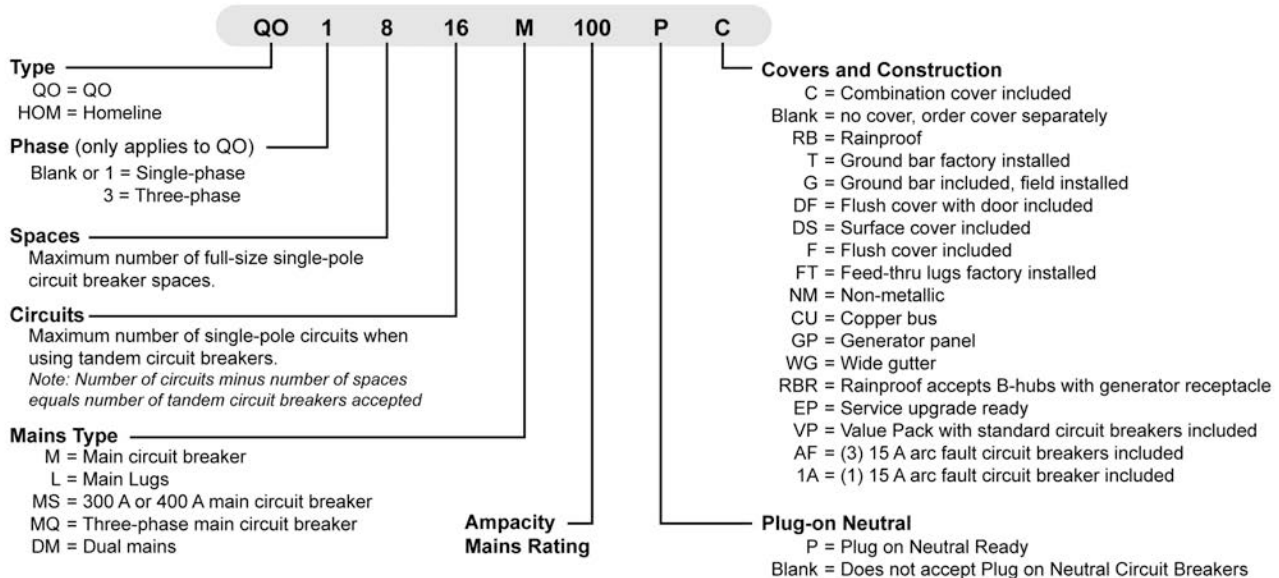
## QO™ and Homeline™ Load Center EZ Selector - Selection Assistance

### EZ Selector

#### Steps to select a load center.

- Select product type:
  - Homeline™ 1 inch format (HOM)
  - QO™ 3/4 inch format with plug-on neutral (QO) (P)
  - QO™ 3/4 inch format (QO)
- Select enclosure type: indoor or outdoor (RB = rainproof)
- Select single phase (1) or three phase (3)
- Select type of main:
  - Main circuit Breaker (M)
  - Main lugs (L)
  - Generator panel (GP)
- Select main ampacity rating
- Select pole spaces and max. number of 1-pole, single-phase circuits
- Select cover style:
  - Surface (box mounted on surface)
  - Surface (box mounted on surface, hinged cover included)
  - Flush (box recessed, cover is flush to wall)
- Value pack (VP)
- Select ground bar option:
  - Ground bar factory installed (T)
  - Ground bar included, field installation (G)
- Select special application:
  - Riser panel with gutter
  - Mfg housing, single phase 3-wire, convertible mains
  - Manufactured housing, single phase, 3-wire
  - Manufactured housing, single phase, 2-wire

#### QO™ and Homeline™ Load Centers — Catalog Number Construction



#### Additional Information

- Search "Load Centers" from our technical FAQs page: [www.schneider-electric.us/en/faqs/home/](http://www.schneider-electric.us/en/faqs/home/)
- Refer to catalog [1100CT0501](#).



**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 mA 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.

**Table 1.26: QO-GFI Circuit Breakers**

Ampere Rating [18]	Qwik-Gard Circuit Breakers With Ground Fault Circuit Interrupter			
	1P 120 Vac		2P Common Trip 120/240 Vac	3P Common Trip 208Y/120 Vac
	10 k AIR 1 Space Required	22 k AIR 1 Space Required	10 k AIR 2 Spaces Required	10 k AIR 3 Spaces Required
15	QO115GFI	QO115VHGFI	QO215GFI	QO315GFI
20	QO120GFI	QO120VHGFI	QO220GFI	QO320GFI
25	QO125GFI	QO125VHGFI	QO225GFI	—
30	QO130GFI	QO130VHGFI	QO230GFI	QO330GFI
40	—	—	QO240GFI	QO340GFI
50	—	—	QO250GFI	QO350GFI
60	—	—	QO260GFI [19]	—

**QO-EPD/EPE**

QO-EPD/EPE circuit breakers provide overload and short circuit protection combined with Class B ground fault protection. They are designed to provide ground fault protection of equipment at a 30 mA level (EPD) or 100 mA level (EPE). They are not designed to protect people from electrical shock.



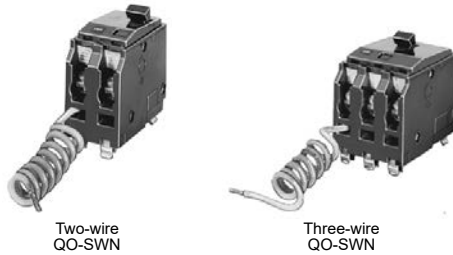
QO 1P  
With Shunt Trip

**Table 1.27: QO-EPD Circuit Breakers**

Ampere Rating [20]	1P 120 Vac 10 k AIR	2P Common Trip 120/240 Vac 10 k AIR	3P Common Trip 240 Vac 10 k AIR	
	1 Space Required	2 Spaces Required	3 Spaces Required	
15	QO115EPD	QO215EPD	QO315EPD [21]	QO315EPE [21]
20	QO120EPD	QO220EPD	QO320EPD [21]	QO320EPE [21]
25	QO125EPD	QO225EPD	—	—
30	QO130EPD	QO230EPD	QO330EPD [21]	QO330EPE [21]
40	—	QO240EPD	QO340EPD [21]	QO340EPE [21]
50	—	QO250EPD	QO350EPD [21]	QO350EPE [21]
60	—	QO260EPD [22]	—	—

**QO-SWN**

Switch Neutral Common Trip 2008 NEC® 514.11



Two-wire  
QO-SWN

Three-wire  
QO-SWN

**Table 1.28: QO-SWN Circuit Breakers**

Ampere Rating [23]	2 Wire 120 Vac 10 k AIR	3 Wire 120/240 Vac 10 k AIR
	2 Spaces Required	3 Spaces Required
10	QO210SWN	QO310SWN
15	QO215SWN	QO315SWN
20	QO220SWN	QO320SWN
25	QO225SWN	QO325SWN
30	QO230SWN	QO330SWN
40	QO240SWN	QO340SWN
50	QO250SWN	QO350SWN

**QO-HID**

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

**Table 1.29: QO-HID Circuit Breakers**

Ampere Rating [23]	1P 120/240 Vac 10 k AIR	2P Common Trip 120/240 Vac 10 k AIR	3P Common Trip 240 Vac 10 k AIR
	1 Space Required	2 Spaces Required	3 Spaces Required
15	QO115HID [24]	QO215HID	QO315HID
20	—	QO220HID	QO320HID
25	QO125HID	QO225HID	QO325HID
30	QO130HID	QO230HID	QO330HID
40	QO140HID	QO240HID	—
50	QO150HID	QO250HID	—

[18] 10–30 A circuit breakers are suitable for use with 60°C or 75°C conductors. 35–60 A circuit breakers are suitable for use with 75°C conductors.  
 [19] Suitable only for feeding 240 Vac and 208 Vac two-wire loads. Does not contain load neutral connection.  
 [20] 10–30 A circuit breakers are suitable for use with 60°C or 75°C conductors. 35–60 A circuit breakers are suitable for use with 75°C conductors.  
 [21] See note in Instruction Bulletin when using in an enclosure with a QO403 or QON prefix.  
 [22] Suitable only for feeding 240 Vac and 208 Vac two-wire loads. Does not contain load neutral connection.  
 [23] 10–30 A circuit breakers are suitable for use with 60°C or 75°C conductors. 35–60 A circuit breakers are suitable for use with 75°C conductors.  
 [24] UL Listed as SWD (switching duty) rated. Suitable for switching 120 Vac fluorescent lighting loads.

**QO Arc-Fault Circuit Breaker**

QO arc-fault circuit breakers provide protection for Series and Parallel Type Arcing as required by the NEC and local code adoption, and comply with UL 1699.



1P  
QO-CAFI  
Plug-On Neutral



1P  
QO-CAFI  
Pigtail

**Table 7.6: QO Arc Fault Circuit Breakers (One-Pole)**

Circuit Breaker Type [15]	Ampere Rating	One-Pole 120 Vac		Two-Pole 120/240 Vac	
		10 k AIR 1 Space Required	22 k AIR 1 Space Required	10 k AIR 2 Space Required	22 k AIR 2 Space Required
Combination Arc-fault Interrupter (Pigtail Neutral)	15 20	QO115CAFI QO120CAFI	QO115VHCAFI QO120VHCAFI	QO215CAFI [16] QO220CAFI [16]	QO215VHCAFI [16] QO220VHCAFI [16]
Plug-On Neutral Combination Arc-fault Interrupter	15 20	QO115PCAFI QO120PCAFI	QO115VHPCAFI QO120VHPCAFI		

**QO-Dual Function Circuit Breaker**

QO Combination Arc Fault and Ground Fault Circuit Interrupters (Dual Function) provide overload and short circuit protection, plus arc fault and ground fault protection in accordance with the NEC, UL 1699 and UL943.



1P QO-DF  
Plug-on Neutral



1P QO-DF  
Pigtail

**Table 7.7: QO-Dual Function Arc Fault Circuit Breakers**

Circuit Breaker Type [17]	Ampere Rating	1P 120 Vac 10 k AIR 1 Space Required	1P 120 Vac 22 k AIR 1 Space Required
Combination Arc-fault and Ground Fault Circuit Interrupter (Pigtail Neutral)	15 20	QO115DF QO120DF	QO115VHDF QO120VHDF
Plug-On Neutral Combination Arc-fault and Ground Fault Circuit Interrupter	15 20	QO115PDF QO120PDF	QO115VHPDF QO120VHPDF

**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 mA 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.



1P  
QO-GFI



2P  
QO-GFI

**Table 7.8: QO-GFI Circuit Breakers**

Ampere Rating [18]	Qwik-Gard Circuit Breakers With Ground Fault Circuit Interrupter			
	1P 120 Vac		2P Common Trip 120/240 Vac	3P Common Trip 208Y/120 Vac
	10 k AIR 1 Space Required	22 k AIR 1 Space Required	10 k AIR 2 Spaces Required	10 k AIR 3 Spaces Required
15	QO115GFI	QO115VHGFI	QO215GFI	QO315GFI
20	QO120GFI	QO120VHGFI	QO220GFI	QO320GFI
25	QO125GFI	QO125VHGFI	QO225GFI	—
30	QO130GFI	QO130VHGFI	QO230GFI	QO330GFI
40	—	—	QO240GFI	QO340GFI
50	—	—	QO250GFI	QO350GFI
60	—	—	QO260GFI [19]	—

**QO-EPD/EPE**

QO-EPD/EPE circuit breakers provide overload and short circuit protection combined with Class B ground fault protection. They are designed to provide ground fault protection of equipment at a 30 mA level (EPD) or 100 mA level (EPE). They are not designed to protect people from electrical shock.



QO 1P  
With Shunt Trip

**Table 7.9: QO-EPD Circuit Breakers**

Ampere Rating [20]	1P 120 Vac 10 k AIR 1 Space Required	2P Common Trip 120/240 Vac 10 k AIR 2 Spaces Required	3P Common Trip 240 Vac 10 k AIR 3 Spaces Required	
15	QO115EPD	QO215EPD	QO315EPD [21]	QO315EPE [21]
20	QO120EPD	QO220EPD	QO320EPD [21]	QO320EPE [21]
25	QO125EPD	QO225EPD	—	—
30	QO130EPD	QO230EPD	QO330EPD [21]	QO330EPE [21]
40	—	QO240EPD	QO340EPD [21]	QO340EPE [21]
50	—	QO250EPD	QO350EPD [21]	QO350EPE [21]
60	—	QO260EPD [22]	—	—

[15] 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.  
 [16] For 120/240 V only, not for 208Y/120 V.  
 [17] 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.  
 [18] 10–30 A circuit breakers are suitable for use with 60°C or 75°C conductors. 35–60 A circuit breakers are suitable for use with 75°C conductors.  
 [19] Suitable only for feeding 240 Vac and 208 Vac two-wire loads. Does not contain load neutral connection.  
 [20] 10–30 A circuit breakers are suitable for use with 60°C or 75°C conductors. 35–60 A circuit breakers are suitable for use with 75°C conductors.  
 [21] See note in Instruction Bulletin when using in an enclosure with a QO403 or QON prefix.  
 [22] Suitable only for feeding 240 Vac and 208 Vac two-wire loads. Does not contain load neutral connection.