
QO Load Center

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

EZ Selector

Steps to select a load center.

1. 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)
2. Select enclosure type: indoor or outdoor (RB = rainproof)
3. Select single phase (1) or three phase (3)
4. Select type of main:
   - Main circuit Breaker (M)
   - Main lugs (L)
   - Generator panel (GP)
5. Select main ampacity rating
6. Select pole spaces and max. number of 1-pole, single-phase circuits
7. Select cover style:
   - Surface (box mounted on surface)
   - Surface (box mounted on surface, hinged cover included)
   - Flush (box recessed, cover is flush to wall)
8. Value pack (VP)
9. Select ground bar option:
   - Ground bar factory installed (T)
   - Ground bar included, field installation (G)
10. 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

QO 1 8 16 M 100 P C

Type
QO = QO
HOM = Homeline

Phase (only applies to QO)
Blank or 1 = Single-phase
3 = Three-phase

Spaces
Maximum number of full-size single-pole circuit breaker spaces.

Circuits
Maximum number of single-pole circuits when using tandem circuit breakers.
Note: Number of circuits minus number of spaces equals number of tandem circuit breakers accepted

Mains Type
M = Main circuit breaker
L = Main Lugs
MS = 300 A or 400 A main circuit breaker
MQ = Three-phase main circuit breaker
DM = Dual mains

Ampacity Mains Rating

Plug-on Neutral
P = Plug on Neutral Ready
Blank = Does not accept Plug on Neutral Circuit Breakers

Covers and Construction
C = Combination cover included
Blank = no cover, order cover separately
RB = Rainproof
T = Ground bar factory installed
G = Ground bar included, field installed
DF = Flush cover with door included
DS = Surface cover included
F = Flush cover included
FT = Feed-thru lugs factory installed
NM = Non-metallic
CU = Copper bus
GP = Generator panel
WG = Wide gutter
RBR = Rainproof accepts B-hubs with generator receptacle
EP = Service upgrade ready
VP = Value Pack with standard circuit breakers included
AF = (3) 15 A arc fault circuit breakers included
1A = (1) 15 A arc fault circuit breaker included

Additional Information

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

QO Plug-On Neutral Load Centers with Qwik-Grip

Qwik-Grip simplifies rough-in by eliminating the need for most knockout removals and eliminates the use of most box connectors. With a quick bend of the NM-B wire using the wire bend guide on the Qwik-Grip.

QO Plug-on Neutral
Load Center with Qwik-Grip

Table 1.23: QO Plug-on Neutral Load Centers with Qwik-Grip

	Mains Rating	Spaces	Max. Single Pole Circuits	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover with Door (Order Seperately)		Main Wire Size AWG/kcmil		Equipment Gound Bar Kit	Box No.
						Flush	Surface	Al	Cu		
INDOOR	Convertible Mains—Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating—Copper Bus, QOM1 Main Frame Size, Convertible to Main Circuit Breaker										
	125 A	24	24	0	QO124L125PQG	QOC24UF	QOC24US	6–2/0		PK15GTAL	7Q
		30	30	0	QO130L125PQG	QOC30U125C	QOC30U125C			PK23GTAL	9Q
	Convertible Mains-Factory—Installed Main Lugs, 65 kA Short Circuit Current Rating—Copper Bus, QOM2 Main Frame Size, Convertible to Main Circuit Breaker										
	200 A	30	30	0	QO130L200PQG	QOC30UF	QOC30US	6–300		PK23GTAL	9Q
	225 A	42	42	0	QO142L225PQG	QOC42UF	QOC42US			PK15GTAL and PK15GTA included	9Q
	Convertible Mains—Factory-Installed Main Circuit Breaker, 22 kA Short Circuit Current Rating—Copper Bus, QOM2 Main Frame Size, Convertible to Main Lugs or Main Circuit Breaker										
	200 A	30	30	0	QO130M200PQ	QOC30UF	QOC30US	4–250		PK23GTA (Order seperately)	11Q
		42	42	0	QO142M200PQ	QOC42UF	QOC42US			PK23GTA (Order seperately)	11Q

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 UL1699.

1P
QO-CAFI
Plug-On Neutral

1P
QO-CAFI
Pigtail

Table 1.24: 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, UL1699 and UL943.

1P QO-DF
Plug-on Neutral

1P QO-DF
Pigtail

Table 1.25: 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

[15] UL Listed as HACR type for use with air conditioning, heating and refrigeration equipment haing 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 haing motor group combinations and marked for use with HACR type circuit breakers.

1P
QO-CAFI
Plug-On Neutral

1P
QO-CAFI
Pigtail

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 UL1699.

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		

1P QO-DF
Plug-on Neutral

1P QO-DF
Pigtail

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, UL1699 and UL943.

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

1P
QO-GFI

2P
QO-GFI

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 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 1P
With Shunt Trip

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.

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 haing 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 haing motor group combinations and marked for use with HACR type circuit breakers.
[18] 10–30 A circuit breakers are suitable for use with 60ºC or 75ºC conductors. 35–60 A circuit breakers are suitable for use with 75ºC 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 60ºC or 75ºC conductors. 35–60 A circuit breakers are suitable for use with 75ºC 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.