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 1.23: 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 1.24: 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 1.25: 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 1.26: 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.