

# Circuit Breakers

## Arc-Fault and Ground-Fault Breakers

## Selection/Wiring Diagrams

### Arc-Fault Circuit Interrupters (AFCI)

AFCI's detect arcing faults (an unintentional arcing condition in a circuit) that standard circuit breakers are unable to detect. The device is intended to mitigate the effects of arcing faults by functioning to de-energize the circuit when an arc-fault is detected.

#### Combination Type AFCI

Detects all three possible types of arc fault: line-to-ground, line-to-neutral, and series.

Breaker Type	Ampere Rating	10,000 A IR Catalog Number	22,000 A IR Catalog Number	65,000 A IR Catalog Number
<b>QAF2/QAFH2/HQAF2</b> 1-Pole 120V AC	15 20	QA115AFC <sup>Ⓞ</sup> QA120AFC <sup>Ⓞ</sup>	QA115AFCH <sup>■</sup> <sup>Ⓞ</sup> QA120AFCH <sup>■</sup> <sup>Ⓞ</sup>	QA115AFCHH QA120AFCHH
<b>QAF2/QAF2H</b> 2-Pole 120/240V AC	15 20	Q215AFC <sup>Ⓞ</sup> Q220AFC <sup>Ⓞ</sup>	Q215AFCH <sup>■</sup> <sup>Ⓞ</sup> Q220AFCH <sup>■</sup> <sup>Ⓞ</sup>	— —

#### Branch-Feeder AFCI

Detects line-to-ground and line-to neutral arcs.

<b>QAF2/QAFH2/HQAF2</b> 1-Pole 120V AC	15 20	QA115AF <sup>Ⓞ</sup> QA120AF <sup>Ⓞ</sup>	QA115AFH <sup>■</sup> <sup>Ⓞ</sup> QA120AFH <sup>■</sup> <sup>Ⓞ</sup>	QA115AFHH QA120AFHH
-------------------------------------------	----------	----------------------------------------------	--------------------------------------------------------------------------	------------------------

#### **NEW** Dual Function AFCI/GFCI

The Dual Function Circuit Breaker combines Combination Type AFCI and GFCI, protecting against both Arc Faults and Ground Faults. The device includes the Self Test and Lockout feature, making it the first in class in electrical safety for homeowners.

<b>QFGA2/QFGAH2/HQFGA2</b> 1-Pole 120V AC	15 20	QA115DF QA120DF	Q115DFH Q120DFH	Q115DFHH Q120DFHH
----------------------------------------------	----------	--------------------	--------------------	----------------------

### Ground-Fault Circuit Interrupters (GFCI)

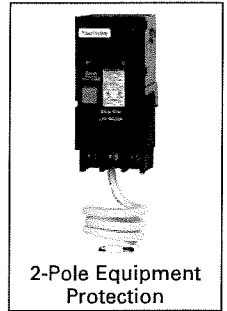
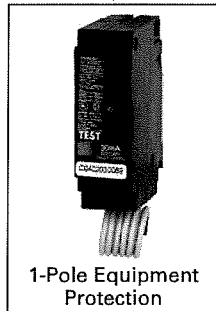
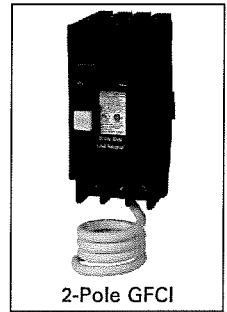
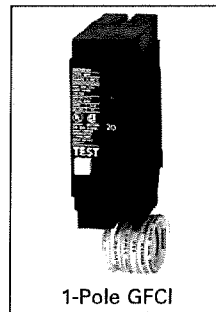
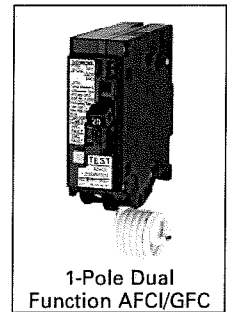
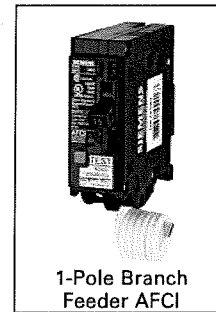
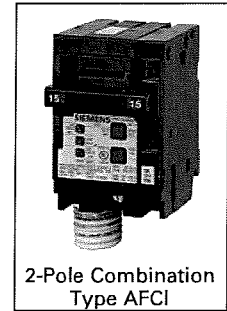
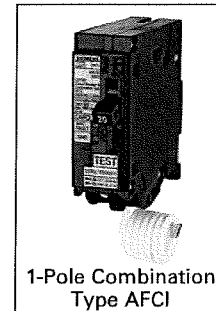
Provides Class A (5mA) ground fault protection. Intended for personnel protection. De-energizes the circuit for all ungrounded conductors of the circuit.

Breaker Type	Amp Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.
<b>QPF/QPHF</b> 1-Pole 120V AC Plug-in	15 20 25 30	QF115 <sup>Ⓞ</sup> QF120 <sup>Ⓞ</sup> QF125 <sup>■</sup> QF130	QF115H <sup>Ⓞ</sup> QF120H <sup>■</sup> <sup>Ⓞ</sup> — QF130H
<b>QPF/QPHF</b> 2-Pole 120/240V AC Plug-in	15 20 30 40 50 60	QF215 QF220 QF230 QF240 QF250 QF260	QF215H QF220H QF230H QF240H QF250H QF260H

### Ground Fault Equipment Protection (30mA)

Provides protection of equipment from damaging line-to-ground faults currents. De-energizes the circuit for all ungrounded conductors of the circuit.

Breaker Type	Amp Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.
<b>QE/QEH</b> 1-Pole 120V AC Plug-in	15 20 30	QE115 <sup>Ⓞ</sup> QE120 <sup>Ⓞ</sup> QE130	QE115H <sup>Ⓞ</sup> QE120H <sup>Ⓞ</sup> QE130H
<b>QE/QEH</b> 2-Pole 120/240V AC Plug-in	15 20 30 40 50 60	QE215 QE220 QE230 QE240 QE250 QE260 <sup>■</sup>	QE215H QE220H QE230H QE240H QE250H QE260H <sup>■</sup>

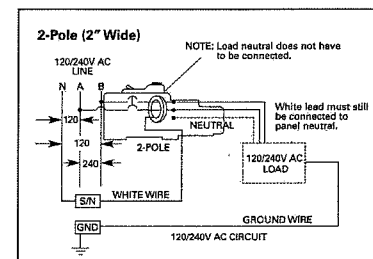
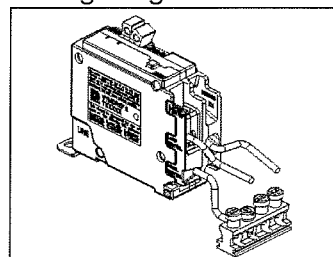


**7**  
MOLDED CASE  
CIRCUIT BREAKERS

### QAF2/QPF/QE Accessories

Description	Catalog Number
Padlocking Device 1-Pole	ECPLD1
Padlocking Device 2-Pole	ECPLD2
Handle Block	ECBX231M

### Wiring Diagrams



■ Built to order. Allow 2-3 weeks for delivery.  
Ⓞ UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.