

# 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 faults: line-to-ground, line-to-neutral, and series.

Breaker Type	Ampere Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.	65,000 A IR Catalog No.
<b>QAF2/QAFH2/HQAF2</b> 1-Pole 120V AC	15 20	QA115AFC ①② QA120AFC ①②	QA115AFCH ① QA120AFCH ①	QA115AFCHH ① QA120AFCHH ①
<b>QAF/QAFH</b> 2-Pole 120/240V AC	15 20	Q215AFC ①② Q220AFC ①②	Q215AFCH ① Q220AFCH ①	— —

#### Branch-Feeder AFCI

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

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

#### NEW Dual Function AFCI/GFCI

The Dual Function Circuit Breaker combines Combination Type AFCI and GFCI, protecting against both Arc Faults and (5mA) Ground Faults. The device includes the Self Test feature, making it the first in class in electrical safety for homeowners.

<b>QFGA2/QFGAH2/HQFGA2</b> 1-Pole 120V AC	15 20	Q115DF ①② Q120DF ①②	Q115DFH ① Q120DFH ①	Q115DFHH ① Q120DFHH ①
--	----------	------------------------	------------------------	--------------------------

### Ground-Fault Circuit Interrupters (GFCI)

Provides Class A (5mA) ground fault protection. Intended for personnel protection. Includes Self Test as an added safety feature.

Breaker Type	Amp Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.	65,000 A IR Catalog No.
<b>QPF2/QPHF2/HQPF2</b> 1-Pole 120V AC Plug-in	15 20 30	QF115A ①② QF120A ①② QF130A ①	QF115AH ① QF120AH ① QF130AH ①	QF115AHH ① QF120AHH ① QF130AHH ①
<b>QPF/QPHF</b> 2-Pole 120/240V AC Plug-in	15 20 30 40 50 60	QF215A QF220A QF230A QF240A QF250A QF260A	QF215AH QF220AH QF230AH QF240AH QF250AH QF260AH	— — — — — —

#### 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.

<b>QE/QEH</b> 1-Pole 120V AC Plug-in	15 20 30	QE115 QE120 QE130	QE115H QE120H QE130H	— — —
<b>QE/QEH</b> 2-Pole 120/240V AC Plug-in	15 20 30 40 50 60	QE215 QE220 QE230 QE240 QE250 QE260	QE215H QE220H QE230H QE240H QE250H QE260H	— — — — — —

#### QAF2/QPF/QE/QPF2 Accessories

Description	Catalog Number①
Padlocking Device 1-Pole	ECPLD1
Padlocking Device 2-Pole	ECPLD2
Handle Block	ECBX231M

■ Built to order. Allow 8 -10 weeks for delivery.

① UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

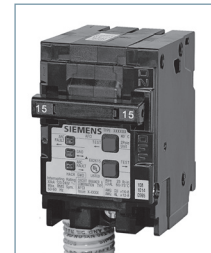
② Add WG to the part number for the WireGuide version.

• UL Listed

• HACR Rated



1-Pole Combination Type AFCI



2-Pole Combination Type AFCI



1-Pole Branch Feeder AFCI



1-Pole Dual Function AFCI/GFCI



1-Pole GFCI



2-Pole GFCI



1-Pole Equipment Protection



2-Pole Equipment Protection

### Wiring Diagrams

