

# 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	22,000 A IR
		Catalog Number	Catalog Number
<b>QAF/QAFH</b> 1-Pole 120V AC	15	Q115AFC <sup>Ⓞ</sup>	Q115AFCH <sup>■</sup> <sup>Ⓞ</sup>
	20	Q120AFC <sup>Ⓞ</sup>	Q120AFCH <sup>■</sup> <sup>Ⓞ</sup>
<b>QAF/QAFH</b> 2-Pole 120/240V AC	15	Q215AFC <sup>Ⓞ</sup>	Q215AFCH <sup>■</sup> <sup>Ⓞ</sup>
	20	Q220AFC <sup>Ⓞ</sup>	Q220AFCH <sup>■</sup> <sup>Ⓞ</sup>

#### Branch-Feeder AFCI

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

<b>QAF/QAFH</b> 1-Pole 120V AC	15	Q115AF <sup>Ⓞ</sup>	Q115AFH <sup>■</sup> <sup>Ⓞ</sup>
	20	Q120AF <sup>Ⓞ</sup>	Q120AFH <sup>■</sup> <sup>Ⓞ</sup>

### 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.

<b>QPF/QPHF</b> 1-Pole 120V AC Plug-in	15	QF115 <sup>Ⓞ</sup>	QF115H <sup>Ⓞ</sup>
	20	QF120 <sup>Ⓞ</sup>	QF120H <sup>■</sup> <sup>Ⓞ</sup>
	25	QF125 <sup>■</sup>	—
	30	QF130	QF130H
<b>QPF/QPHF</b> 2-Pole 120/240V AC Plug-in	15	QF215	QF215H
	20	QF220	QF220H
	30	QF230	QF230H
	40	QF240	QF240H
	50	QF250	QF250H
	60	QF260	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.

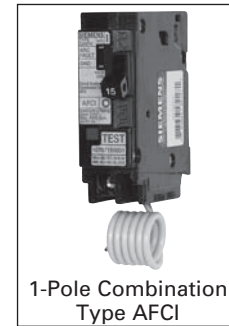
<b>QE/QEH</b> 1-Pole 120V AC Plug-in	15	QE115 <sup>Ⓞ</sup>	QE115H <sup>Ⓞ</sup>
	20	QE120 <sup>Ⓞ</sup>	QE120H <sup>Ⓞ</sup>
	30	QE130	QE130H
<b>QE/QEH</b> 2-Pole 120/240V AC Plug-in	15	QE215	QE215H
	20	QE220	QE220H
	30	QE230	QE230H
	40	QE240	QE240H
	50	QE250	QE250H
	60	QE260 <sup>■</sup>	QE260H <sup>■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

### QAF/QPF/QE Accessories

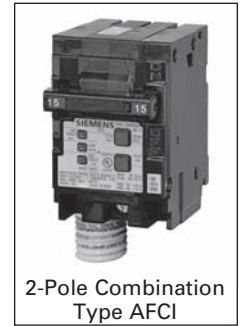
Description	Catalog Number
Padlocking Device 1-Pole	ECPLD1
Padlocking Device 2-Pole	ECPLD2
Handle Block	ECBX231M

■ Built to order. Allow 2-3 weeks for delivery.

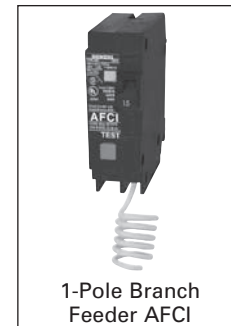
Ⓞ UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.



1-Pole Combination Type AFCI



2-Pole Combination Type AFCI



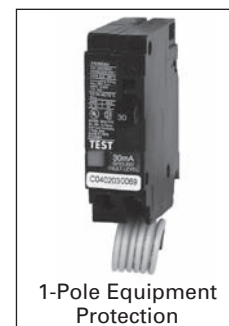
1-Pole Branch Feeder AFCI



1-Pole GFCI



2-Pole GFCI



1-Pole Equipment Protection



2-Pole Equipment Protection

### Wiring Diagrams

