

Life Is On

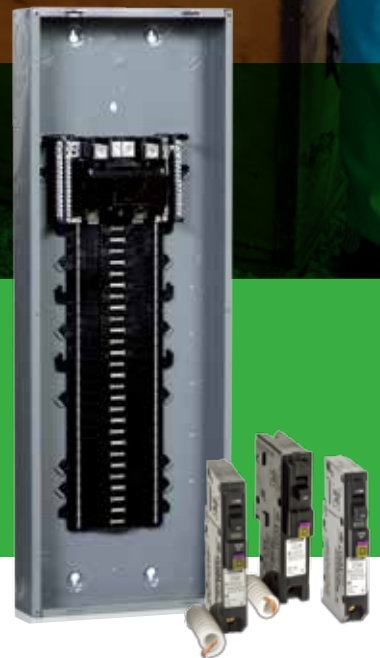
**SQUARE D**<sup>™</sup>  
by Schneider Electric

# Square D QO load centers and circuit breakers

The leader for safe, reliable,  
and innovative solutions

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Authorized Partner





Square D is the known leader in circuit protection with a long-standing reputation for quality and reliability.



#### Ground fault circuit interrupters

Ground fault circuit interrupters (GFCIs) are designed to protect people from the dangers of electrical shock. These circuit breakers are typically installed on circuits where water sources may be present. The National Electrical Code® (NEC) requires ground fault circuit protection in the garage, outdoor areas, bathrooms, and in spa areas within the home. Square D™ by Schneider Electric QO™ ground fault circuit breakers provide Class A protection, sensing and responding to very low levels of ground faults by tripping and shutting off power, preventing serious electrical shock to people.



#### Combination arc fault circuit interrupters

Combination arc fault circuit interrupters (CAFCIs) provide protection against series and parallel arcs. Arcing is a precursor to many electrical fires. Square D QO CAFCIs help protect people and property from fires caused by electrical arcing. These devices continuously monitor the branch circuit and trip when a potentially dangerous condition is detected.



#### Dual function (CAFCI + GFCI)

Two critical, state-of-the-art technologies in one device. The innovative Square D QO dual function circuit breakers combine two critical, state-of-the-art technologies: combination arc fault and ground fault (Class A) protection in one circuit breaker. Dual function circuit interrupters provide a higher level of protection than any other residential circuit breaker. These devices protect the entire circuit on which they are installed, not just a part of the circuit, like electronic receptacles do.

#### Time saver diagnostics

##### Troubleshoot circuit issues

Eliminate the guesswork with time saver diagnostics to identify the type of fault that last occurred.

The time saver diagnostics sequence is simple and easy to use and requires no tools or special training.

**Step 1** — Simply turn off the circuit breaker

**Step 2** — Hold down the push-to-test button

**Step 3** — Turn the circuit breaker back on

— If the circuit breaker trips immediately, it is detecting a fault to ground

— If the circuit breaker trips after a two-second delay, it is detecting an arc fault

— If the circuit breaker trips after a five-second delay, it is a thermal overload or short circuit

Any of these instances indicate that there is an issue ON the circuit and NOT with the circuit breaker itself. (If there is no issue on the circuit to be diagnosed, tripping after a five-second delay would also be a normal breaker testing operation.)

#### Use circuit breakers properly

Electrical protection requires that circuit breakers are used properly. To maintain the integrity and safety intended, install only breakers marked on the load center label and/or wiring diagram. QO load centers are marked to accept only genuine QO circuit breakers.

QO circuit breakers should only be used in panels marked to accept them. Any other use voids your warranty and may reduce protection, increase liability risks, and violate the NEC.

## Convertible main load center key features

- **Plated copper bus** — one-piece copper bus provides exceptional conductivity and is plated to ensure superior performance and durability
- **QO 3/4-inch format** — this space-saving feature saves wire
- **Shield copper bus** — an industry first, reduces the chance of accidental contact with the bus
- **Five-point mounting** — enables easier installation
- **Standard 22k/10k AIR SCCR** — standard short-circuit series rating for all main breaker load centers
- **180° rotation for top or bottom feed** — improves application flexibility
- **Backed-out neutral screws** — speeds up installation
- **Straight-in wiring** — saves wire, labor, and time
- **3-phase** — the QO offer includes a full range of 3-phase load centers



### One-piece copper bus

QO load centers feature plated copper bus, providing superior performance and durability.



- Engineered for quality and reliability
- Designed for fast installation
- UL® Listed, exclusively for QO circuit breakers
- Available in both Plug-on Neutral and standard versions



QO load centers are built on the Square D reputation for reliability, innovation, and circuit protection leadership.

The Square D brand is the number one choice of more electricians and home builders.



#### We've got you covered: flush and surface covers

Indoor QO covers are available in surface or flush mount; these can be purchased separately and limit loss or damage if stored at the job site.



#### Protection from the rain

QO load centers are available in NEMA® Type 3R rainproof enclosures, with Square D type rain-tight bolted hubs for fast and convenient top feed conduit connection. Side-opening devices feature a stainless steel door latch and rainproof center mounting boss on back.



#### Automatic flush adjustment

QO flush covers feature a floating, spring-mounted trim providing automatic adjustment. This ensures proper alignment without manual adjustment and speeds up the final installation.



#### Single teardrop positioning hole

Enables single-person installation. The load center can be hung in position and is easily secured with the embossed mounting holes.

## QO Plug-on Neutral load centers and CAFCI and dual function circuit breakers

QO Plug-on Neutral load centers and CAFCI and dual function circuit breakers are engineered for a quick plug-on neutral connection on every circuit.

Designed for reliability, the QO Plug-on Neutral CAFCI and dual function circuit breakers connect directly to the neutral bar, providing a time- and labor-saving installation.



### QO circuit breaker key features

- Exclusive red Visi-Trip™ indication — makes it easy to spot a tripped circuit breaker
- Market-leading circuit protection — superior quality and reliability
- Qwik-Open™ technology — unsurpassed in the industry
- QO 3/4-inch format — this space-saving feature saves wire
- Multiple applications — QO circuit breakers offer a full range of amperage, poles, and advanced function devices such as arc fault protection



## The high cost of surge damage

### Home Electronics Protective Devices

Each year it's estimated that surges can cause \$26 billion in lost time, repairs, and equipment.

The cost of surge damage can range from an immediate loss of electronics and appliances to long-term cumulative damage, shortening the life expectancy of expensive home possessions.



Square D Home Electronics Protective Devices (HEPDs) are compact and affordable surge suppressors designed for protection against surges that may overpower surge strips. HEPDs also provide protection for home electronics not connected to surge strips.

Square D brand HEPDs are critical surge suppression elements for sensitive equipment and devices. When mounted in residential load centers, they are ideal for providing surge suppression to important household items that plug strips typically don't protect. The HEPD80 provides 80,000 amps of surge capacity and a five-year, \$75,000 limited warranty.



### QO surge protective device

The QO Surgebreaker™ is a plug-in surge protective device (SPD) that is installed internally in the load center and is designed to protect the home's electrical system and hard-wired appliances from surges. Installing the QO Surgebreaker provides critical surge protection against surges that may overload ordinary surge strips. QO Surgebreaker SPDs come with a three-year, \$10,000 limited warranty.



### Surgebreaker Plus Whole House Surge Protection

The Square D Whole House Surgebreaker provides multipath surge protection and is connected to the outside of the load center. The Surgebreaker Plus is a complete SPD system where AC, cable, Ethernet, and telephone lines are connected. This modular SPD system provides 80,000 amps of surge capacity, and comes standard with cable, Ethernet, and telephone surge modules. Surgebreaker Plus Whole House SPDs come with a five-year, \$100,000 limited warranty.

# A comprehensive selection of load centers, circuit breakers, and accessories

Maximizing application flexibility, QO load centers and circuit breakers can satisfy almost any residential, commercial, or industrial installation requirement.

## 1. QO fixed main load centers

Ideal for indoor and outdoor sub-feed applications, such as dual-zone HVAC, hot tubs, and pools. These main lug panels accommodate up to 16 circuits when QO tandem breakers are installed.

## 2. Service upgrade load center

Ideal for service upgrades or remodels, this 200 amp QO load center speeds up the service change with removable end wall plates, saving time compared to the traditional load centers designed for new construction. This innovation allows you to meet the growing need for additional load center circuits and service upgrades.

## 3. Non-metallic QO 2-4 circuit load center

Corrosion-resistant enclosure is ideal for accommodating GFCI protection and switching for outdoor circuits, such as hot tubs, fountains, and swimming pools.

## 4. QO generator panel

In the event of power outages, Square D QO generator panels are the ideal way to safely connect specific circuits in the home to an alternate power source, allowing for uninterrupted service.

## 5. Complete line of accessories

A complete line of QO accessories maximizes application flexibility. From ground kits to bolt-on rainproof hubs, filler plates, door locks, manual transfer kits, and more.

Designed to stand the test of time.

Square D QO load centers and circuit breakers are part of a comprehensive family of circuit protection solutions. Like all Square D products from Schneider Electric, these innovative protective devices are built for easy installation and reliable operation.



[www.cedfresno.com](http://www.cedfresno.com)  
**(559) 478-0996**  
[marketing@cedfresno.com](mailto:marketing@cedfresno.com)



#### Quality you can trust

Over 60 years ago, QO load centers and circuit breakers changed the way homes were protected by replacing standard fuses with our patented Qwik-Open technology providing convenience, safety, and reliability. Square D load centers and circuit breakers are the number one choice of more electricians and home builders. QO offers a wide variety of application solutions and is also RoHS compliant and designed with time-saving features such as automatic flush adjusting covers and straight-in wiring. QO load centers are designed, tested, and listed only for QO circuit breakers, the world's finest.

#### Schneider Electric USA

800 Federal Street  
Andover, MA 01810  
888 SQUARED (888 778 3733)

[www.schneider-electric.com](http://www.schneider-electric.com)

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April 2016

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