Square D QO Load Centers and Circuit Breakers

The leader for safe, reliable, and innovative solutions

by Schneider Electric
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.

- **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.

- **Protection from the rain**
  QO Load Centers are available in NEMA® Type 3R rainproof enclosures, with Square D™ type rain-tight bolted (RB) hub for fast and convenient top feed conduit connection. Side-opening devices feature a stainless steel door latch and rainproof center mounting boss on back.

- **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.
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 ¾ 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
Square D is the known leader in circuit protection with a long-standing reputation for quality and reliability

Arc-D-Tect Combination Arc Fault Circuit Interrupter

Utilizing advanced arc detection technology, the exclusive Square D Arc-D-Tect Combination Arc Fault Circuit Interrupter provides the highest level of circuit protection available today — designed to detect dangerous arc faults as well as provide traditional overload and short-circuit protection. Available in Plug-On Neutral* and Pigtail versions.

*QO Plug-on Neutral Combination Arc Fault Circuit Breakers are only compatible with QO Plug-on Neutral Load Centers.

TIME SAVER Diagnostics provide enhanced performance

In the event of a Combination Arc Fault Circuit Breaker trip, quickly identifying the source of the trip event is key. To assist our customers, Square D has developed the TIME SAVER indication feature, now standard on all Square D brand CAFI circuit breakers.** Square D CAFI circuit breakers remember their last trip; ground fault, arc fault, or thermal-magnetic.

**Applies to all Combination Arc Fault Circuit Breakers with a date code of 1130 or higher.

QO Qwik-Gard Ground Fault Circuit Interrupter

QO Qwik-Gard™ Ground Fault Circuit Interrupters (GFCIs) utilize market-leading technology to help protect against dangerous ground fault conditions. Combined with our exclusive Qwik-Open overload and short-circuit protection, Square D GFCIs provide the performance, quality, and reliability you’ve come to expect. Integrated design combines UL-approved circuit breaker with 5 mA, 30 mA, or 100 mA ground fault protection. Ground faults can occur when electrical equipment is worn, defective, or accidentally misused. Available in one-, two-, and three-pole configurations.

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 National Electrical Code®.
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 ¾ 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

Square D by Schneider Electric™ 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, $50,000 limited warranty.

> QO Surge Protective Device (SPD)

The QO Surgebreaker™ is a plug-in 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 a QO Surgebreaker provides critical surge protection against surges that may overload ordinary surge strips. QO Surgebreaker SPDs come with a two-year, $10,000 limited warranty.

> Surgebreaker Plus Whole House Multi-Path Surge Protection

The Square D Whole House Surgebreaker provides multi-path surge protection and is connected to the outside of the load center. The Surgebreaker Plus is a complete SPD system where AC, telephone, and cable/satellite lines are connected. This modular SPD system provides 80,000 amps of surge capacity, protecting up to four telephone lines and cable or satellite lines. Surgebreaker Plus Whole House SPDs come with a five-year, $75,000 limited warranty.

The home is no place to compromise on electrical safety!
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 as 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 Panel is 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.

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. And they’re designed to stand the test of time.
QO Plug-on Neutral Load Centers and CAFI Circuit Breakers

QO Plug-on Neutral Load Centers and CAFI Circuit Breakers are engineered for a quick Plug-on Neutral connection on every circuit.

Designed for reliability, the QO Plug-on Neutral CAFI Circuit Breakers connect directly to the neutral bar, providing a time- and labor-saving installation.

Over 50 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.

For more information on our circuit protection products or other solutions, please call your local Square D distributor, call 888-SQUARED, or visit our website at www.schneider-electric.com/us.
Square D Homeline
Load Centers and Circuit Breakers
Engineered for value
From the **Square D** brand you know and trust, **Homeline Load Centers** are engineered for **value**, **reliability**, and **innovation**.

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

- **Combination Flush/Surface Covers**
  
  For purchasing convenience, indoor covers for convertible mains load centers include a combination flush or surface cover for flexible use with any mounting application. Included with the load center, the cover is individually packaged in its own carton to reduce the risk of damage in shipping or storage while waiting for final installation.

- **Automatic Flush Adjustment**
  
  Homeline flush covers feature a floating, spring-mounted trim providing automatic adjustment. This ensures proper alignment without manual adjustment and speeds up final installation.

- **Rainproof Enclosures**
  
  Homeline™ Load Centers are available in NEMA® Type 3R rainproof enclosures, with Square D™ type rain-tight bolt-on (RB) hubs for fast and convenient top-feed conduit connection. Side-opening devices feature a stainless steel door latch.

- **Teardrop Mounting Hole**
  
  Enables single-person installation. The load center can be hung in position and is easily secured with the embossed mounting holes.
Innovative neutral bar design* — To ease installation, our fully distributed neutral bar is available in Homeline convertible mains load centers, and accepts Plug-On Neutral circuit breakers on every space and is designed to allow the branch neutral and equipment grounds to be installed at the branch breaker.

Every space accepts full-size, tandem, and quad circuit breakers — Simplifies product selection and allows for easy installation, especially for remodeling jobs.

Load Center box improvements — Three large knockouts on the back of the load center for both high- and low-amp devices, helping improve through-wall applications.

For minor adjustments, slotted mounting holes have been added to ease in wall placement.

Backed-out neutral screws — Speeds up installation.

Ground/Neutral bar simplicity — Speeding up installation of equipment ground wire, each ground bar terminal accepts up to (3) #10 – 14 wires, as well as unused neutrals (when bonded) when used as the point of service entrance.

Standard 22 k/10 k AIR SCCR — Standard short-circuit series rating for all main breaker load centers; up to 65 k AIC for main lugs devices.

180° rotation for top or bottom feed — Improves application flexibility.

Straight-in wiring — Reduces the need to bend service cable — saving wire, labor, and time.

Panel interiors easily removed for protection from theft or painting — Interior mounts quickly and easily, single captive screw cannot be lost.

*Patent applied
Square D is the industry leader in circuit protection with a long-standing reputation for quality and reliability.

Homeline Ground Fault Circuit Interrupters (GFI)
The National Electrical Code requires ground fault circuit protection in the garage, outdoor areas, bathrooms, and in spa areas within the home. The Homeline Ground Fault Circuit Breaker provides Class A protection against ground faults, overloads, and short circuits. The device senses and responds to very low levels of ground faults by tripping or shutting off power, preventing serious electrical shock to people.

Homeline Combination Arc Fault Circuit Interrupters (CAFIs)
Homeline Combination Arc Fault Circuit Interrupters (CAFIs), 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. Square D Combination Arc Fault Circuit Interrupters are UL Listed, meet prevailing National Electrical Code standards, and are available in 1-Pole and 2-Pole configurations, in both 15 and 20 A ratings.

Homeline Dual Function Circuit Breakers (CAFI + GFI)
Save time and money with combined Combination Arc Fault and Ground Fault Protection in one device. The innovative Square D Homeline Dual Function Circuit Breaker combines two critical, state-of-the-art technologies: Combination Arc Fault and Ground Fault (Class A) Protection in a single, easy-to-install device. Available in standard pigtail and time-saving Plug-on Neutral, these devices save space and installation time while meeting 2014 National Electrical Code requirements.

Homeline Plug-on Neutral Circuit Breakers
Engineered for value, Homeline Plug-on Neutral CAFI and Dual Function Circuit Breakers connect directly to the neutral bar within the load center, providing a cleaner, time- and labor-saving installation without the pigtail connection. The innovative, fully distributed neutral bar within the Homeline load center accepts Plug-on Neutral Circuit Breakers on any space.

TIME SAVER Diagnostics
TIME SAVER Diagnostics* helps take away the guesswork and provides diagnostic assistance at the touch of a button in the unlikely event a trip should occur. By identifying the type of fault that has occurred, it improves troubleshooting time and helps contractors and homeowners identify the trip cause faster.

* Equipped in all Square D Homeline CAFI and Dual Function Circuit Breakers with a date code of 1130 or higher
Homeline
Circuit Breaker
Key Features

✔ Market-leading electrical safety
   — Designed for superior safety, quality, and reliability. Square D circuit breakers are engineered with the quality and craftsmanship that have made Square D the preferred brand of electricians and homeowners.

✔ Wide variety of circuit protection
   — Homeline Circuit Breakers offer a full range of amperage, poles, and advanced-function devices such as Dual Function Protection, Combination Arc Fault Protection, and Ground Fault Protection, providing superior electrical safety.

✔ Flexible for multiple applications
   — To meet a wide variety of customer specific applications, the Homeline offer features Equipment Protection Devices (EPDs), High Magnetic (HM) Circuit Breakers, and Tandem and Quad Circuit Breakers.

Use circuit breakers properly.
To ensure proper performance, Square D circuit breakers should only be installed in Square D Load Centers. Each Square D Load Center is equipped with a label specifying compatible circuit breaker options. Any other use of these devices, may void the warranty and could reduce the protection provided, in addition to potentially violating prevailing National Electrical Code requirements. Under no circumstances should non-Square D circuit breakers be installed in any Square D Load Center.

*All Homeline 15 A and 20 A 1-Pole circuit breakers are switching duty (SWD) rated and are suitable for switching 120 Vac fluorescent lighting loads.
Surges come from many different sources and can cause thousands of dollars in damage.

Don’t compromise the electrical safety of a home.

When surge protection is installed at the electrical panel, it helps protect all the devices in the home, including those that are not plugged into a surge plug strip (e.g. washers, dryers, stoves, refrigerators).

**Surgebreaker Plus Whole House Surge Protection**

Square D Surgebreaker Plus™ protects the entire home from high-energy power surges by delivering suppression of electrical surges. The device effectively protects everything from appliances, heating and air condition systems, compact fluorescent and LED lighting, home entertainment systems, computers, game consoles, to telephone and cable TV systems.

Whole House Surge Protection delivers critical electrical protection for valuable electrical and electronic equipment within the home. Surgebreaker Plus helps protect against surges generated outside the home which can enter along telephone and coaxial lines and can’t be stopped by AC surge protection alone.

**Square D Home Electronics Protective Device (HEPD80)**

The Square D Home Electronics Protective Device (HEPD80) is a compact and affordable surge suppressor designed for residential load centers. The HEPD80 reduces surges that might otherwise overwhelm plug strips and damage connected household equipment. It also provides surge suppression for important items that are not compatible with plug strips such as washers, dryers, refrigerators, stoves, heating and air conditioning equipment, and lighting.

**Homeline Surge Protective Device (SPD)**

The Homeline Surgebreaker is a plug-in SPD that is installed internally within the load center and is designed to protect the home’s electrical system and hard-wired appliances from surges. Installing a Square D Surgebreaker provides critical surge protection against surges that may overload ordinary surge strips.
A comprehensive selection of load centers, circuit breakers, and accessories

1. **Homeline Fixed Main Load Centers**
   Ideal for indoor and outdoor sub-feed applications, such as dual-zone HVAC, hot tubs, and pools, all fixed mains accept full-size and tandem circuit breakers.

2. **Service Upgrade Load Center**
   Ideal for service upgrades or remodels, this 200 A Homeline Load Center speeds up the service change with removable top and bottom end wall plates, saving time over traditional load centers designed for new construction. Easily meet the growing need for additional load center circuits and service upgrades with this innovative product.

3. **Complete Line of Accessories**
   A complete line of Homeline accessories maximizes application flexibility, such as rainproof hubs, filler plates, neutral lugs, door locks, retaining kits for back-fed mains, and more.

4. **QO Load Centers — The World’s Finest**
   QO™ Load Centers are available in Plug-on Neutral, as well as single and three phase.

Square D QO and Homeline Load Centers and Circuit Breakers are designed for fast installation, reliability, and superior circuit protection. With industry leading innovations and exclusive features, Square D Load Centers and Circuit Breakers are the **smart, safe, and reliable choice**.
Square D Homeline Load Centers for Plug-on Neutral CAFI and Dual Function Circuit Breakers

Engineered for value, Homeline Load Centers offer time-savings for Plug-on Neutral Combination Arc Fault and Dual Function Circuit Breaker installation.

Our innovative split neutrals save you time and wire by allowing Plug-on Neutral circuit breakers to connect directly to the neutral bar without a pigtail. Coupled with the innovative design, our neutral bars are now fully-distributed, accepting Plug-on Neutral breakers on any space.

Engineered for value with innovation, Homeline Load Centers and Circuit Breakers are designed for fast installation. Homeline Load Centers are backed by a 10-year warranty and are one of the industry’s most feature-rich offers.

For more information on Square D circuit protection products or other solutions, please contact your local Square D distributor, call 888-SQUARED (888-778-2733), or visit: www.schneider-electric.com/us