

Square D QO115PAF

Square D QO115PAF 15-Amp Single-Pole Plug-On Neutral CAFCI Circuit Breaker User Manual

Model: QO115PAF

INTRODUCTION

The Square D QO115PAF 15-Amp Single-Pole Plug-On Neutral Combination Arc Fault Circuit Interrupter (CAFCI) Circuit Breaker is designed to provide advanced protection against electrical fires caused by arc faults. This device detects both parallel and series arcing incidents, quickly interrupting the circuit to enhance safety in your home or office. It is engineered for easy installation in compatible Square D QO load centers.

IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock or electrocution. Installation and servicing of this circuit breaker must be performed by qualified electrical personnel only. Always turn off the main power supply at the service panel before working on electrical circuits.

- Ensure all local and national electrical codes are followed during installation.
- Do not attempt to install or service this device if you are not qualified.
- Verify that the circuit breaker rating matches the circuit requirements.

SETUP AND INSTALLATION

The QO115PAF circuit breaker features a plug-on neutral design, simplifying installation by eliminating the need for a pigtail wire connection to the neutral bar. This design is compatible with Square D QO load centers manufactured after 2018 that support plug-on neutral breakers.

1. **Preparation:** Turn off the main power to the load center at the main service disconnect. Open the load center cover.
2. **Identify Slot:** Locate an available slot in your Square D QO load center.
3. **Connect Load Wire:** Connect the circuit's hot (load) wire to the terminal on the circuit breaker. Tighten the screw to the specified torque.
4. **Plug-On Installation:** Align the circuit breaker with the bus bar and the neutral bar. Firmly push the breaker onto the bus bar until it is fully seated and the neutral connection is made. No separate neutral wire connection is required for

the breaker itself.

5. **Verify Connection:** Ensure the breaker is securely seated and cannot be easily pulled off.
6. **Restore Power:** Close the load center cover and restore main power.

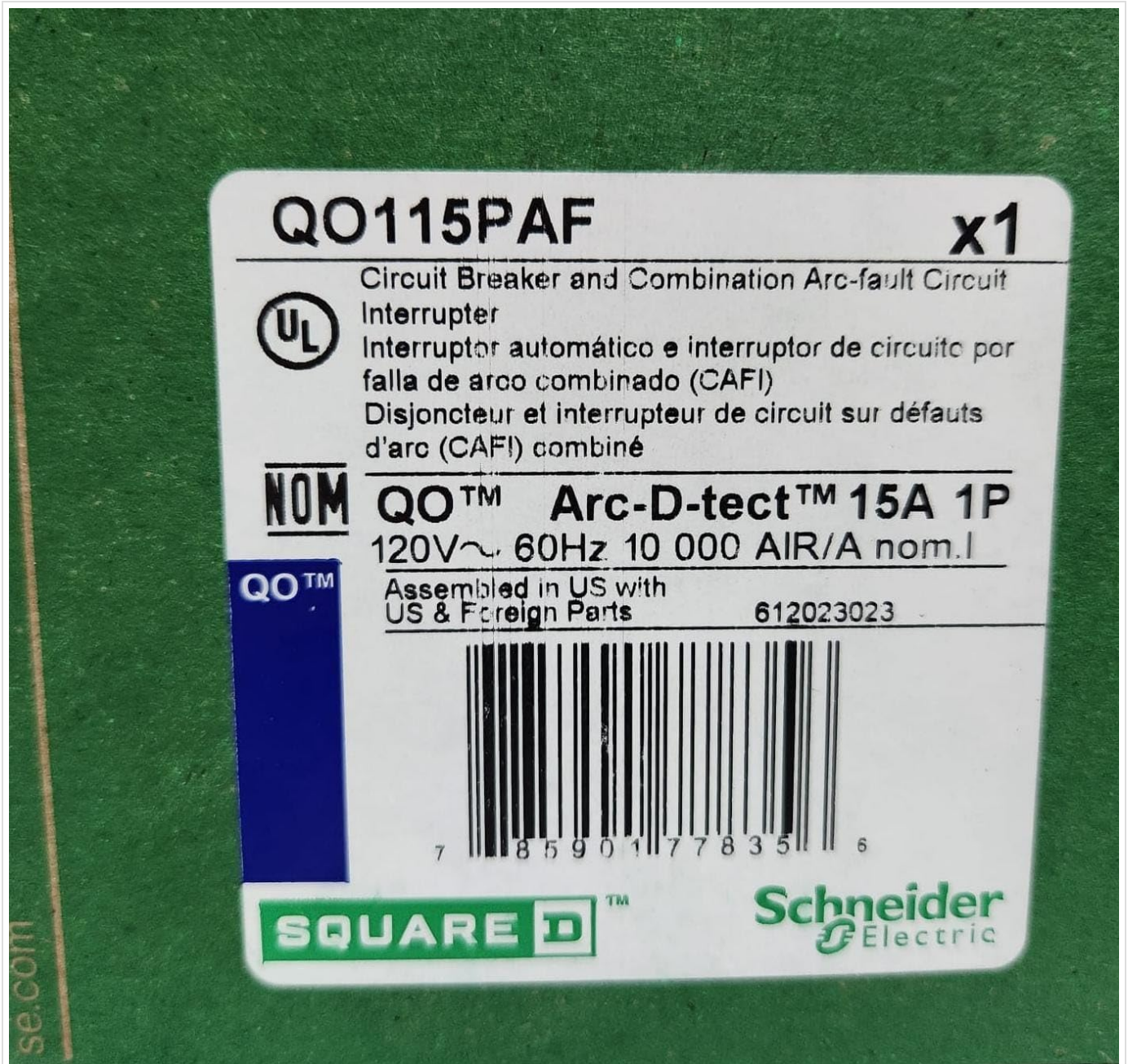


Image: The Square D QO115PAF 15-Amp Single-Pole Plug-On Neutral CAFCI Circuit Breaker. This image shows the front and side view of the circuit breaker, highlighting the ON/OFF switch, test button, and connection points.



Image: Product packaging for the Square D QO115PAF circuit breaker. The label clearly displays the model number QO115PAF, UL listing, 15A 1P rating, 120V~ 60Hz, and 10,000 AIR/A interrupting rating.

Installation Video Resources

Product Overview Video

Video: A detailed product overview demonstrating the features and benefits of the Square D circuit breaker. This video provides visual guidance on the product's design and functionality.

360 View of Plug-On Neutral Connection

Video: A 360-degree view showcasing the plug-on neutral connection feature of a similar Square D QO circuit breaker (model QO120PCAFI). This short clip illustrates how the breaker connects to the neutral bar without additional wiring.

OPERATING INSTRUCTIONS

The QO115PAF circuit breaker operates like a standard circuit breaker with added arc fault protection.

- **Turning ON:** Push the handle firmly to the "ON" position.
- **Turning OFF:** Push the handle firmly to the "OFF" position.
- **Resetting a Tripped Breaker:** If the breaker trips due to an arc fault or overload, the handle will move to the center "TRIPPED" position. To reset, first push the handle completely to the "OFF" position, then push it firmly to the "ON" position. If the breaker immediately trips again, there may still be a fault on the circuit.
- **Test Button:** A "TEST" button is located on the front of the breaker. Pressing this button should cause the breaker to trip, indicating that the arc fault detection mechanism is functioning correctly.

MAINTENANCE

Regular maintenance for the QO15PAF circuit breaker primarily involves periodic testing to ensure its arc fault protection capabilities remain functional.

- **Monthly Test:** It is recommended to test the circuit breaker monthly. To do this, ensure the circuit is under load (e.g., a light is on). Press the "TEST" button on the breaker. The breaker should immediately trip to the "TRIPPED" position. Reset the breaker by pushing the handle to "OFF" and then to "ON". If the breaker does not trip when the test button is pressed, it may be faulty and should be replaced by a qualified electrician.
- **Cleaning:** Keep the area around the circuit breaker and load center clean and free from dust and debris. Do not use liquids or abrasive cleaners directly on the breaker.

TROUBLESHOOTING

If your QO15PAF circuit breaker is not functioning as expected, consider the following troubleshooting steps:

- **Breaker Trips Immediately After Reset:** This indicates a persistent fault on the circuit. Disconnect all appliances and devices from the circuit and try resetting the breaker. If it still trips, there may be a wiring issue or a faulty permanent fixture. Contact a qualified electrician.
- **Nuisance Tripping:** While CAFCI breakers are designed to detect subtle arc faults, sometimes certain electronic devices with switching power supplies can cause nuisance tripping. If this occurs, try isolating the problematic device. If the issue persists, consult an electrician.
- **Test Button Does Not Trip Breaker:** If pressing the "TEST" button does not trip the breaker, the arc fault detection mechanism may be faulty. The breaker should be replaced immediately by a qualified electrician.
- **No Power to Circuit:** Ensure the breaker is in the "ON" position. If it is, and there's still no power, check the main breaker in the load center. If all breakers are on, there might be a wiring issue or a problem with the load center itself.

The Square D QO15PAF includes Time Saver Diagnostics, which can help identify the type and cause of an arc fault, assisting qualified personnel in faster troubleshooting.

SPECIFICATIONS

Feature	Specification
Model Number	QO15PAF
Amperage Rating	15 Amps
Voltage Rating	120 VAC
Pole Configuration	Single-Pole

Breaking Capacity	10 kA
Protection Type	Combination Arc Fault Circuit Interrupter (CAFCI)
Neutral Connection	Plug-On Neutral
Certifications	UL Listed (UL File E84967), CSA Certified (CSA Master Contract 153555)
Item Weight	7 ounces
Package Dimensions	4.25 x 4.02 x 1.06 inches

WARRANTY INFORMATION

This Square D QO115PAF circuit breaker is covered by the manufacturer's standard warranty. For specific details regarding warranty terms, conditions, and duration, please refer to the documentation provided with your purchase or visit the official Square D by Schneider Electric website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting guidance beyond this manual, or warranty inquiries, please contact Square D by Schneider Electric customer support. Contact information can typically be found on the product packaging, the official company website, or through your authorized distributor.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

