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› Square D QO2100 2-Pole 100A Circuit Breaker Instruction Manual

Square D QO2100

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Model: QO2100

IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock, explosion, or arc flash. Installation and maintenance of this equipment must be performed by qualified personnel only. Disconnect all power before working on or inside this equipment. Always use a properly rated voltage sensing device to confirm power is off. Replace all devices, doors, and covers before turning on power. Failure to follow these instructions will result in death or serious injury.

- Always ensure the main power supply is disconnected before attempting any installation, maintenance, or inspection.
- Wear appropriate personal protective equipment (PPE) including safety glasses and insulated gloves.
- Verify all connections are secure and properly torqued according to local electrical codes and manufacturer specifications.
- Do not use this device if it appears damaged or has been subjected to excessive force.
- Consult a licensed electrician if you are unsure about any part of the installation or operation.

PRODUCT OVERVIEW

The Square D QO2100 is a 2-pole, 100 Amp molded case circuit breaker designed for overload and short-circuit protection in electrical systems. It features a thermal-magnetic tripping mechanism and a Visi-Trip indicator for easy identification of a tripped circuit. This breaker is compatible with Square D QO load centers and CSED devices.

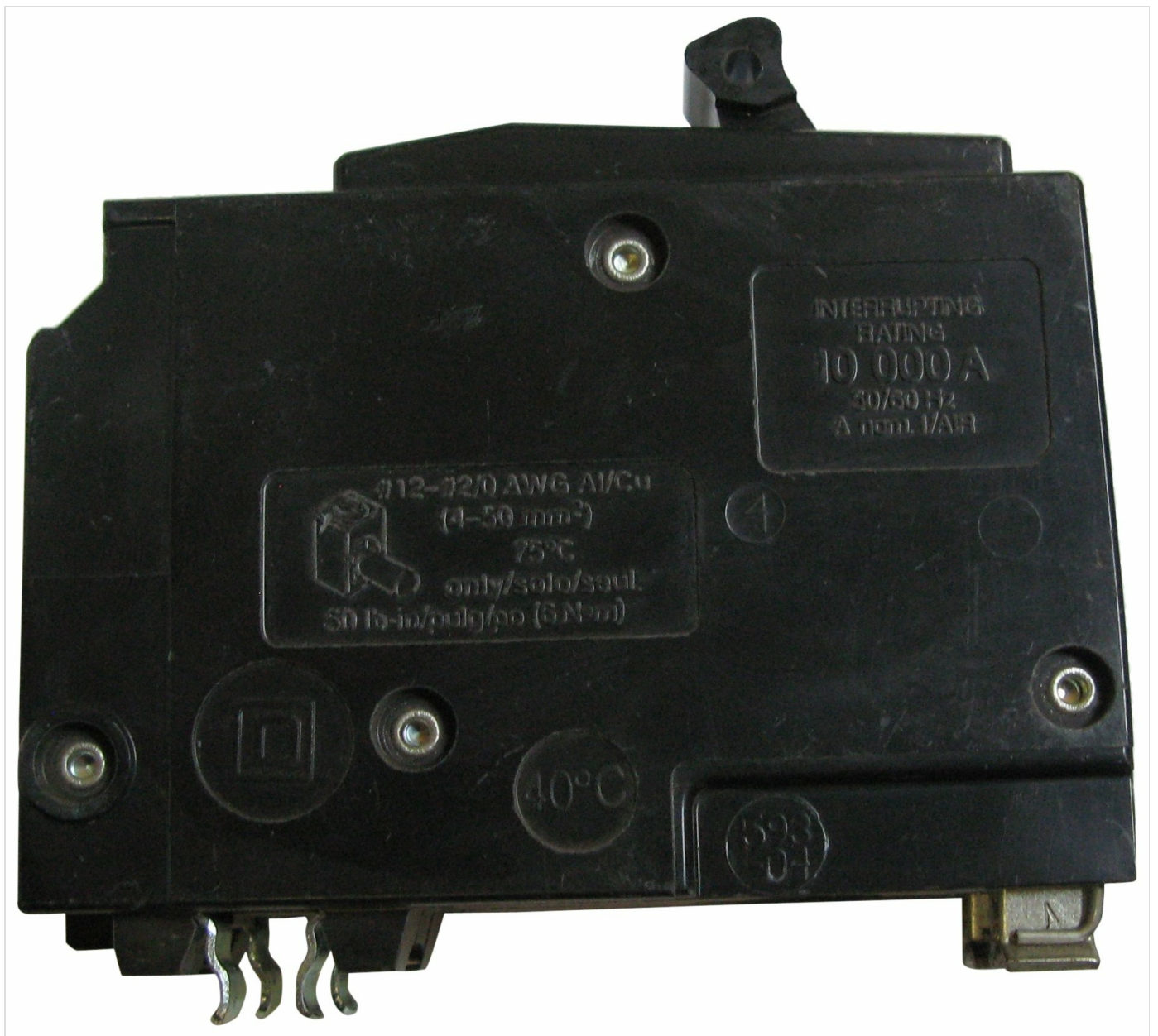


Figure 1: Front view of the Square D QO2100 2-Pole 100A Circuit Breaker, showing the ON/OFF switch and amperage rating.



Figure 2: Side view of the Square D QO2100 2-Pole 100A Circuit Breaker, highlighting the terminal connections.



Figure 3: Rear view of the Square D QO2100 2-Pole 100A Circuit Breaker, showing the model number label and caution sticker.

Key Features:

- 2-pole with a common trip mechanism.
- Visi-Trip indicator for quick identification of tripped circuits.
- Compatible with Square D QO load centers and CSED devices.
- Rated for 100 Amps at 120/240 Volts.
- 10,000 AIR (Amperes Interrupting Rating).
- ANSI certified and UL listed for safety and performance.

INSTALLATION INSTRUCTIONS

This circuit breaker is designed for plug-on installation into Square D QO load centers and CSED devices. Ensure all safety precautions are followed before proceeding.

Steps for Installation:

1. **Prepare the Load Center:** Ensure all power to the load center is OFF. Open the load center cover.
2. **Identify Breaker Space:** Locate an available 2-pole space on the load center bus bar.
3. **Connect Load Wires:** Connect the load wires (typically two hot wires) to the appropriate terminals on the circuit breaker. Tighten terminal screws to the torque specified on the breaker label or in the load center documentation.

- 4. **Install Breaker:** Position the circuit breaker so that its clips align with the bus bar stabs. Press firmly until the breaker snaps securely into place. Ensure both poles are properly engaged with the bus bar.
- 5. **Verify Connections:** Double-check all wire connections and ensure the breaker is firmly seated.
- 6. **Restore Power:** Close the load center cover. Restore main power to the load center.

Note: Refer to your specific load center's instruction manual for detailed wiring diagrams and additional installation requirements.

OPERATION

The QO2100 circuit breaker operates with a simple ON/OFF mechanism and provides visual indication of its status.

- **ON Position:** Push the handle fully to the "ON" position to allow current flow.
- **OFF Position:** Push the handle fully to the "OFF" position to interrupt current flow.
- **Tripped Position (Visi-Trip Indicator):** If an overload or short-circuit occurs, the breaker will automatically trip. The handle will move to a center position between "ON" and "OFF", and the Visi-Trip indicator (a red flag) will become visible in a window on the breaker.
- **Resetting a Tripped Breaker:** To reset a tripped breaker, first push the handle firmly to the "OFF" position, then push it to the "ON" position. If the breaker immediately trips again, there is still a fault in the circuit that needs to be addressed.

MAINTENANCE

Regular inspection and proper maintenance can help ensure the longevity and reliable operation of your circuit breaker.

- **Periodic Visual Inspection:** Annually inspect the circuit breaker for any signs of physical damage, discoloration, or loose connections. Ensure the Visi-Trip indicator is clear and functional.
- **Cleaning:** If necessary, gently clean the exterior of the breaker with a dry, lint-free cloth. Do not use liquids or abrasive cleaners. Ensure power is disconnected before cleaning.
- **Testing:** While not typically required for residential circuit breakers, some commercial or industrial applications may require periodic testing by qualified personnel. Consult local codes and standards.
- **Replacement:** If the breaker shows signs of damage, frequent tripping without an apparent fault, or fails to reset, it should be replaced by a qualified electrician.

TROUBLESHOOTING

This section provides guidance for common issues you might encounter with your QO2100 circuit breaker.

Problem	Possible Cause	Solution
Breaker trips frequently.	Overload on the circuit, short-circuit, or faulty appliance.	Unplug appliances from the circuit. Reset the breaker. If it trips again, consult an electrician to identify and fix the fault.
Breaker will not reset.	Persistent short-circuit or internal breaker fault.	Ensure all loads are disconnected. Try resetting again (OFF then ON). If it still won't reset, the breaker may be faulty and needs replacement by a qualified electrician.
No power to circuit, but breaker is ON.	Loose connection, wiring issue, or internal breaker failure.	Verify all connections are secure (with power off). If connections are good, the breaker may be faulty. Consult a qualified electrician.

TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Square D
Model Number	QO2100
Current Rating	100 Amps
Voltage Rating	120/240 Volts
Number of Poles	2
Circuit Breaker Type	Thermal-Magnetic, Standard
Interrupting Rating (AIR)	10,000 Amperes
Mounting Type	Panel Mount (Plug-on)
Product Dimensions	1.5"D x 3.25"W x 3.25"H
Item Weight	11.4 ounces
Certifications	ANSI Certified, UL Listed
Material	Copper

WARRANTY INFORMATION

Square D products are manufactured to high-quality standards and typically come with a manufacturer's warranty. For specific warranty terms and conditions applicable to your QO2100 circuit breaker, please refer to the documentation included with your purchase or visit the official Square D website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please contact Square D customer service. You can typically find contact information on the manufacturer's official website or through your local electrical distributor. When contacting support, please have your product model number (QO2100) and any relevant purchase details available.

For more information, visit: [Square D Official Website](#)

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

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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