

Schneider Electric QO2020

Schneider Electric Square D QO2020 Circuit Breaker

INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of the Schneider Electric Square D QO2020 Circuit Breaker. The QO2020 is a 1-pole, 20-ampere, 120-volt magnetic circuit breaker designed for overcurrent protection in Square D QO load centers. Please read this manual thoroughly before attempting any installation or operation.

2. Safety Information

WARNING: Risk of Electric Shock or Fire.

- Installation and servicing of this circuit breaker must be performed by qualified electrical personnel only.
- Always disconnect power at the main service panel before working on electrical equipment. Failure to do so can result in serious injury or death.
- Ensure all local and national electrical codes are followed during installation.
- Do not use this device if it appears damaged.
- Verify the circuit breaker rating matches the circuit requirements.

3. Setup and Installation

The QO2020 circuit breaker is designed for plug-in mounting in Square D QO series load centers. Follow these steps for proper installation:

1. **Power Disconnection:** Turn off the main power supply to the load center at the utility service entrance. Verify power is off using a voltage tester.
2. **Load Center Access:** Remove the cover of the Square D QO load center.
3. **Breaker Placement:** Align the circuit breaker's clips with the bus bar stabs in the load center.
4. **Secure Connection:** Firmly press the circuit breaker onto the bus bar until it is fully seated and

secure.

5. **Wire Connection:** Connect the circuit wire to the terminal screw on the circuit breaker. Ensure the wire is properly stripped and the screw is tightened to the manufacturer's specified torque (refer to load center documentation for torque specifications).
6. **Cover Replacement:** Replace the load center cover.
7. **Power Restoration:** Restore power to the load center.



Image 1: The Square D QO2020 circuit breaker, showing its compact design and terminal for wire connection. This image illustrates the typical appearance of the device before installation into a compatible load center.

4. Operating Instructions

The QO2020 circuit breaker provides manual switching and automatic overcurrent protection.

- **Turning ON:** Push the handle firmly to the "ON" position.
- **Turning OFF:** Push the handle firmly to the "OFF" position.
- **Tripping:** In the event of an overload or short circuit, the circuit breaker will automatically move to a tripped position (typically midway between ON and OFF, or fully OFF depending on the model). This indicates that the circuit has been interrupted for safety.
- **Resetting a Tripped Breaker:** To reset a tripped breaker, first move the handle completely to the "OFF" position, then push it firmly to the "ON" position. If the breaker immediately trips again, there is likely a persistent fault on the circuit. Do not repeatedly attempt to reset the breaker without investigating the cause.

5. Maintenance

The Square D QO2020 circuit breaker is a sealed unit and contains no user-serviceable parts. Regular maintenance is generally limited to visual inspection.

- **Periodic Inspection:** Periodically inspect the circuit breaker and its connections for any signs of damage, discoloration, loose wires, or overheating.
- **Cleaning:** Ensure the area around the circuit breaker in the load center remains clean and free of dust or debris.
- **Professional Check:** If any issues are observed, or if the breaker frequently trips without an apparent cause, consult a qualified electrician.

6. Troubleshooting

If you encounter issues with your QO2020 circuit breaker, consider the following:

- **Breaker Trips Frequently:** This usually indicates an overload or a short circuit on the protected circuit. Disconnect appliances or devices from the circuit to identify the faulty item. If the problem persists, a qualified electrician should inspect the wiring.
- **Breaker Will Not Reset:** If the breaker immediately trips after being reset, a fault condition (overload or short circuit) is still present. Do not force the handle. Investigate the circuit for issues or contact a qualified electrician.
- **No Power to Circuit, Breaker is ON:** Check the main breaker in the load center. If the main breaker is ON and the individual breaker is ON, but there's no power, there might be a loose connection or an internal fault. Consult a qualified electrician.

7. Specifications

Feature	Specification
Brand	Schneider Electric (Square D)
Model Number	QO2020
Circuit Breaker Type	Standard, Magnetic
Number of Poles	1
Voltage Rating	120 Volts
Mounting Type	Plug-In Mount
Item Weight	5.1 ounces
Package Dimensions	3.27 x 3.19 x 0.75 inches
UPC / GTIN	005830572185

8. Warranty and Support

For detailed warranty information and technical support regarding your Square D QO2020 circuit breaker, please refer to the official Schneider Electric website or contact their customer service directly. Warranty terms and conditions may vary by region and purchase date.

Schneider Electric Official Website: www.se.com/us/en/