**Schneider Electric QOM100VHCP**

# Schneider Electric QOM100VHCP QOM1 100-Amp Main Breaker Instruction Manual

## 1. Introduction

This manual provides essential information for the safe and proper installation, operation, and maintenance of the Schneider Electric QOM100VHCP QOM1 100-Amp Main Breaker. This device is designed for use in QO or Homeline 100-125 Amp rated load centers to provide overcurrent protection.

## 2. Safety Information

**WARNING: Risk of Electric Shock, Explosion, or Arc Flash.**

- This equipment must be installed and serviced only by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.
- Failure to follow these instructions will result in death or serious injury.

Always adhere to local and national electrical codes.

## 3. Product Overview

The QOM100VHCP is a 100-Amp, double-pole main circuit breaker designed for field installation in compatible Schneider Electric QO or Homeline load centers. It provides protection against overloads and short circuits, with an interrupting rating of 22,000 Amperes (AIR).


Figure 1: Front view of the Schneider Electric QOM100VHCP QOM1 100-Amp Main Breaker, showing the ON/OFF switch and terminal lugs.

## Key Features:

- Miniature circuit breaker rated at 125A for main breaker applications.

- Bolt-on feature for field installation.
- Interrupting capacity of 22kA.
- Easy plug-on design compatible with SE Homeline Loadcenters, requiring two spaces.

## 4. Installation

The QOM100VHCP main breaker is designed for field installation in 100-125 Amp convertible QO or Homeline load centers. Ensure the load center is de-energized before proceeding.

### Installation Steps:

1. **De-energize the Load Center:** Turn off the main power supply to the load center at the utility meter or main service disconnect. Verify with a voltage tester that all power is off.
2. **Remove Existing Components:** If replacing an existing main breaker or filler plates, carefully remove them according to the load center's instructions.
3. **Position the Breaker:** Align the QOM100VHCP main breaker with the designated main breaker slots in the load center. The breaker is designed for a plug-on connection to the bus bars.
4. **Secure the Breaker:** Ensure the breaker is firmly seated on the bus bars and secured with any provided mounting hardware (e.g., screws or clips) as per the load center's instructions.
5. **Wire Connections:** Connect the incoming service conductors to the main breaker's lugs. The breaker accepts #4 - 2/0 AWG wire. Strip the wire insulation to the length indicated by the strip gauge on the breaker (typically 3/4 inch). Tighten the lug screws to the torque specifications provided on the breaker or in the load center manual.
6. **Verify Connections:** Double-check all wire connections for tightness and proper insulation.
7. **Restore Power:** Replace the load center cover. Restore power to the load center.


Figure 2: Illustrative dimensions of a typical circuit breaker, providing reference for space requirements within a load center.

## 5. Operation

The QOM100VHCP main breaker functions as the primary overcurrent protection device for the entire load center. In normal operation, the breaker switch will be in the 'ON' position. If an overload or short circuit occurs, the breaker will automatically trip to the 'OFF' position, interrupting the electrical flow to prevent damage to the electrical system and connected equipment.

### Resetting a Tripped Breaker:

1. **Identify the Cause:** Before resetting, attempt to identify and correct the cause of the trip (e.g., unplug overloaded appliances, fix a short circuit).
2. **Fully OFF:** Move the breaker handle firmly to the full 'OFF' position. You may feel a click.
3. **Turn ON:** Move the breaker handle firmly to the 'ON' position.
4. If the breaker immediately trips again, do not attempt to reset it further. Contact a qualified electrician.

## 6. Maintenance

Circuit breakers generally require minimal maintenance. Regular visual inspections are recommended.

- **Annual Inspection:** Periodically inspect the breaker and its connections for any signs of overheating, discoloration, loose wires, or physical damage.
- **Cleaning:** Ensure the area around the breaker is free from dust and debris. Do not use liquids for cleaning inside the load center.
- **Testing:** While not typically required for residential main breakers, some industrial applications may require periodic testing. Consult a qualified electrician for specific testing requirements.

**WARNING: Do not attempt to repair a damaged or malfunctioning breaker. Replace it with an identical or approved equivalent.**

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Breaker trips frequently | Overloaded circuit, short circuit, ground fault, faulty appliance, or faulty breaker. | Reduce load on circuit, inspect appliances for faults, check wiring for shorts. If problem persists, consult an electrician. |
| Breaker does not reset | Persistent fault (short circuit, severe overload), or internal breaker damage. | Do not force the breaker. Disconnect all loads from the circuit and attempt to reset. If it still won't reset, contact a qualified electrician. |
| Breaker is hot to the touch | Loose connection, overloaded circuit, or internal breaker fault. | Immediately turn off power to the load center. Do not touch the breaker. Contact a qualified electrician for inspection and repair. |

## 8. Specifications

| Specification | Detail |
|---|---|
| Brand | Schneider Electric |
| Model Number | QOM100VHCP |
| Current Rating | 100 Amps (Main Breaker), 125 Amps (Load Center Rating) |
| Circuit Breaker Type | Standard, Double-Pole |
| Mounting Type | Snap-In Mount / Bolt-on (Field Installable) |
| Voltage | 240 Volts |
| Interrupting Rating (AIR) | 22,000 Amperes |
| Wire Gauge Compatibility | #4 - 2/0 AWG |
| Material | Plastic |
| Product Dimensions | 5.4 x 4 x 4.4 inches (approximate) |
| Item Weight | 1 pound (approximate) |

## 9. Warranty Information

This product is covered by a manufacturer's warranty. For specific details regarding the warranty period, terms, and conditions, please refer to the documentation included with your purchase or visit the official Schneider Electric website. Proof of purchase may be required for warranty claims.

## 10. Customer Support

For technical assistance, installation questions, or warranty inquiries, please contact Schneider Electric customer support through their official website or the contact information provided with your product packaging.
**Schneider Electric Official Website:** www.se.com/us/en/



### Related Documents - QOM100VHCP

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|  | QO™ and Homeline™ Load Centers Instruction Bulletin - Schneider Electric<br>Comprehensive instruction bulletin for Schneider Electric's QO™ and Homeline™ Load Centers, Class 1100. Covers safety precautions, enclosure mounting (surface and flush), main circuit breaker/lug wiring, branch circuit breaker installation and removal, cover/trim installation, and energizing procedures. Includes detailed guidance for electricians and installers. |
|  | QO™ and Homeline™ Load Centers Class 1100 Installation Instructions<br>Instruction bulletin detailing the safe installation and operation of Schneider Electric's QO™ and Homeline™ Load Centers Class 1100, including mounting, wiring, and circuit breaker procedures. |
|  | QO® and Homeline® Outdoor Load Centers Installation Guide \| Schneider Electric<br>Detailed installation and operation instructions for Schneider Electric's QO® and Homeline® outdoor load centers. Covers safety, wiring, breaker installation, and trim application. |
|  | Schneider Electric Homeline Load Centers: Main Lugs and Main Circuit Breakers<br>This document details Schneider Electric's Homeline indoor main lug and main circuit breaker load centers, including accessories like surge protective devices and convertible main load centers. It provides specifications, catalog numbers, and application information for various models. |

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|  | [QO® and Homeline® Outdoor Load Centers Installation Guide \| Schneider Electric]<br>Comprehensive installation instructions and safety precautions for Schneider Electric's QO® and Homeline® outdoor load centers (Class 1100). Learn how to mount, wire, and energize your load center safely. |
|  | QO Circuit Breaker Load Centers Class 1130 Replacement Parts<br>Schneider Electric provides a comprehensive replacement parts list for QO Circuit Breaker Load Centers, Class 1130, specifically for Single-Phase Fixed Main Lugs, Series 1, G1, and G3 models. This document details catalog numbers and part codes for various components including covers, doors, interior trim, assemblies, and hardware. |