Schneider Electric HOM140CP

Square D HOM140CP Homeline 40 Amp Single-Pole Circuit Breaker User Manual

Model: HOM140CP | Brand: Schneider Electric

1. Introduction

This manual provides essential information for the safe and effective use of the Square D Homeline 40 Amp Single-Pole Circuit Breaker (Model HOM140CP). This device is designed to protect electrical systems from overloads and short-circuits, ensuring the safety and integrity of your electrical installations.
The HOM140CP circuit breaker is compatible with Square D Homeline load centers and CSED devices, making it suitable for both residential and commercial applications.

2. Safety Information

WARNING: Risk of Electric Shock or Fire.
Installation and servicing of electrical equipment should only be performed by qualified, licensed electricians. Always disconnect power at the main service panel before working on circuit breakers or electrical wiring. Failure to follow these instructions can result in death, serious injury, or property damage.

- Always turn off the main power supply before installation or maintenance.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Ensure all connections are tight and secure to prevent overheating.
- Verify compatibility with your existing electrical panel before installation. This breaker is designed for Square D Homeline panels.
- Consult local electrical codes and regulations. For example, refer to NEC 2020 updates and contact your local building inspector for specific code adoptions and details.

3. Product Features

- **Overload and Short-Circuit Protection:** Designed to automatically trip and interrupt the electrical circuit in the event of an overload or short-circuit, protecting wiring and appliances.
- **Plug-on Design:** Facilitates easy and secure installation into compatible Square D Homeline load centers.
- **Compatibility:** Specifically designed for use with Square D Homeline electrical panels and CSED devices with 1 space.
- **Residential and Commercial Use:** Suitable for protecting entire branch circuits in both residential and light commercial settings.

- **UL Listed and ANSI Certified:** Meets recognized safety and performance standards.
- **HACR Type:** Suitable for use with heating, air conditioning, and refrigeration equipment.

4. Specifications

Specification	Detail
Model Number	HOM140CP
Brand	Schneider Electric (Square D)
Current Rating	40 Amps
Voltage Rating	120/240 VAC
Interrupting Rating (AIC)	10,000 Amps
Number of Poles	1
Circuit Breaker Type	Standard, Thermal/Magnetic
Mounting Type	Plug-In Mount
Material	Copper
Dimensions (L x W x H)	12.43 x 8.31 x 9.25 inches (Product Package Dimensions)
Item Weight	5.6 ounces
Certifications	UL Listed, ANSI Certified, HACR Type
UPC	047569062735

5. Installation

The Square D Homeline circuit breaker features a plug-on design for straightforward installation. Always ensure the main power to the electrical panel is OFF before beginning any installation work.

1. **Prepare the Panel:** Ensure the main breaker in your electrical panel is in the OFF position, cutting all power to the panel. Use a voltage tester to confirm that no power is present.
2. **Identify Slot:** Locate an available slot in your Square D Homeline load center.
3. **Connect Wire:** Loosen the terminal screw on the circuit breaker. Insert the circuit wire (typically the hot wire for the circuit you are protecting) into the terminal. Tighten the screw firmly to ensure a secure connection. Refer to local electrical codes for proper wire gauge for a 40 Amp circuit.
4. **Mount Breaker:** Align the clip on the back of the circuit breaker with the bus bar in the electrical panel. Push the breaker firmly onto the bus bar until it clicks securely into place.
5. **Route Wire:** Neatly route the connected wire within the panel, ensuring it does not obstruct other components or panel cover.
6. **Restore Power:** Once all connections are secure and the panel cover is replaced, turn the main breaker back ON. Then, switch the newly installed HOM140CP circuit breaker to the ON position.

Figure 1: Side view of the HOM140CP circuit breaker, showing the barcode and model identification. The barcode number is 047569062735.

Figure 2: Front view of the HOM140CP circuit breaker, displaying the 40 Amp rating and ON/OFF toggle.

Figure 3: Left side view of the HOM140CP circuit breaker, showing the housing and connection points.

6. Operation

The HOM140CP circuit breaker operates as a protective device for your electrical circuits. Under normal operating conditions, the breaker will remain in the ON position, allowing electricity to flow through the circuit.

- **Normal Operation:** When the circuit is functioning correctly, the breaker handle will be in the ON position.
- **Overload/Short-Circuit Protection:** If an electrical overload or short-circuit occurs, the circuit breaker will automatically "trip" to the OFF position (or an intermediate tripped position, depending on the design), interrupting the flow of electricity to prevent damage to wiring or connected devices.
- **Resetting a Tripped Breaker:** If the breaker trips, first identify and resolve the cause of the overload or short-circuit (e.g., unplug overloaded devices). To reset, firmly push the breaker handle completely to the OFF position, then push it back to the ON position. If the breaker immediately trips again, do not attempt to reset it repeatedly; consult a qualified electrician.

7. Maintenance

Circuit breakers generally require minimal maintenance. However, periodic inspection can help ensure continued safe operation.

- **Visual Inspection:** Periodically inspect the circuit breaker and surrounding wiring for any signs of damage, discoloration, or loose connections. Ensure the breaker is securely seated in the panel.
- **Dust and Debris:** Keep the electrical panel area clean and free of dust and debris, which can impede proper heat dissipation.
- **Testing (Optional):** Some electricians recommend periodically testing circuit breakers by manually tripping them. However, this should only be done by a qualified professional, as frequent manual tripping can potentially reduce the lifespan of the breaker.

- **Professional Inspection:** Consider having your electrical system, including circuit breakers, inspected by a qualified electrician every few years.

8. Troubleshooting

If your HOM140CP circuit breaker is not functioning as expected, consider the following common issues and solutions:

Problem	Possible Cause	Solution
Breaker trips frequently.	Overloaded circuit, short-circuit, or faulty appliance.	Unplug some devices from the circuit. Inspect appliances for faults. If problem persists, consult an electrician.
Breaker will not reset.	Persistent overload/short-circuit, or internal breaker fault.	Ensure all devices are unplugged from the circuit. If it still won't reset, the breaker may be faulty and needs replacement by an electrician.
No power to circuit, but breaker is ON.	Loose connection, faulty wiring, or internal breaker fault.	Turn off main power. Check wire connections at the breaker and outlets. If connections are secure, consult an electrician.

Important: If you are unsure about any electrical issue, or if troubleshooting steps do not resolve the problem, always contact a qualified, licensed electrician. Do not attempt repairs beyond your expertise.

9. Warranty and Support

The Square D HOM140CP Homeline Circuit Breaker is backed by a **Limited Lifetime Warranty** from Schneider Electric. This warranty covers defects in materials and workmanship under normal use and service.
For warranty claims, technical support, or further assistance, please contact Schneider Electric customer service or visit their official website. Keep your purchase receipt as proof of purchase.
Schneider Electric Contact Information:

Website: www.se.com/us/en/

Customer Support: Refer to the website for regional contact numbers and support options.