

Schneider Electric HOM230CP

Schneider Electric Homeline 30 Amp 2-Pole Circuit Breaker HOM230CP Instruction Manual

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Square D Homeline 30 Amp 2-Pole Circuit Breaker, model HOM230CP. This device is designed to provide reliable residential circuit protection against overloads and short circuits.

The HOM230CP is a standard type, plug-in mount circuit breaker suitable for residential use in Square D Homeline load centers and CSEDs. It features a 30A current rating, 10kA breaking capacity, and operates on 120/240V AC circuits, making it ideal for larger appliances.

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 turn off the main power supply at the service panel before installing or servicing any electrical equipment.
- Use appropriate personal protective equipment (PPE) when working with electrical systems.
- Ensure all connections are tight and secure to prevent overheating and potential fire hazards.
- Do not use this circuit breaker for applications exceeding its specified voltage or current ratings.
- This product is UL-listed for safety and reliability. Adhere to all local and national electrical codes.

3. PRODUCT FEATURES

- **Residential Circuit Protection:** Engineered for fast installation and superior circuit protection in homes.
- **Easy Installation:** Plug-on neutral design with a shorter footprint for quick plug-in mounting.
- **30 Amp Two-Pole Configuration:** Delivers 30A protection, suitable for 240V branch circuits powering larger appliances like dryers, ranges, and air conditioners.
- **Standard Protection:** Offers standard thermal/magnetic protection against overloads and short circuits.
- **HACR Rated:** Suitable for use with air conditioning, heating, and refrigeration equipment.

- **Wire Compatibility:** Clamp terminal accepts 2 wires, ranging from 14 AWG to 8 AWG copper or aluminum wire.



Image 1: Technical benefits of the Square D Homeline 30 Amp 2-Pole Circuit Breaker, highlighting its 30A rating, overload/short-circuit protection, UL certification, 10kA breaking capacity, residential/commercial use, and compatibility with Homeline panels.

4. SPECIFICATIONS

Model Number	HOM230CP
Brand	Schneider Electric (Square D Homeline)
Current Rating	30 Amps
Number of Poles	2
Voltage Rating	120/240V AC
Breaking Capacity	10kA
Mounting Type	Plug-In Mount
Circuit Breaker Type	Standard, Thermal/Magnetic
Wire Gauge Compatibility	14 AWG to 8 AWG (Copper or Aluminum)
Certifications	UL-listed, HACR-rated
Dimensions (H x W x D)	3.13" x 2" x 2.98" (79.50 mm x 50.8 mm x 75.69 mm)



Image 2: Detailed dimensions of the HOM230CP circuit breaker, showing its height (3.13"), width (2"), and depth (2.98").

5. INSTALLATION (SETUP)

The Square D Homeline HOM230CP circuit breaker is designed for easy installation in compatible Square D Homeline load centers and CSEDs. It occupies two spaces within the panel.

Installation Steps:

1. **Ensure Power is OFF:** Before beginning any work, locate the main service disconnect and turn off all power to the electrical panel. Verify with a voltage tester that no power is present.
2. **Identify Location:** Select two adjacent available spaces in your Square D Homeline load center or CSED for the 2-pole breaker.
3. **Connect Wires:** Connect the two circuit wires (typically black and red for 240V circuits) to the clamp terminals on the circuit breaker. The clamp terminals accept 14 AWG to 8 AWG copper or aluminum wire. Ensure wires are stripped to the correct length and inserted fully into the terminals. Tighten the terminal screws securely according to manufacturer specifications (refer to the load center's label for torque values).
4. **Mount Breaker:** Align the circuit breaker's clips with the bus bar stabs in the load center. Press firmly until the breaker snaps securely into place. The plug-on neutral design ensures a proper connection.
5. **Verify Connections:** Double-check all wire connections and ensure the breaker is firmly seated.
6. **Restore Power:** Once installation is complete and verified, close the electrical panel cover. Restore power at the main service disconnect.

For optimal safety and compliance with electrical codes, it is highly recommended that installation be performed by a licensed electrician.

Compatible products

Homeline 30 Amp 2 Pole Circuit Breaker

MFG Model Number: HOM230CP



Compatible with Homeline electrical panels and CSEDs with 2 spaces



HOM1RKCP



HOM2PALACP



Image 3: The HOM230CP circuit breaker shown with compatible Homeline electrical panels and CSEDs, indicating its plug-in compatibility.

6. OPERATION

The HOM230CP circuit breaker functions as an automatic protective device for your electrical circuits. It has two primary operating states:

- **ON Position:** When the handle is in the 'ON' position, power is supplied to the connected circuit.
- **OFF Position:** When the handle is in the 'OFF' position, power to the connected circuit is interrupted. This position is used for manual disconnection or during maintenance.
- **TRIPPED Position:** If an overload or short circuit occurs, the breaker will automatically move to a central 'TRIPPED' position (often indicated by the handle being between ON and OFF). This indicates that the circuit has been safely interrupted to prevent damage or fire.

7. MAINTENANCE

The Square D Homeline HOM230CP circuit breaker is a sealed unit and contains no user-serviceable parts. Regular maintenance is generally not required beyond periodic visual inspection.

Recommended Maintenance:

- **Visual Inspection:** Periodically inspect the circuit breaker and its connections within the load center for any signs of damage, discoloration, loose wires, or corrosion.
- **Dust Removal:** Ensure the area around the circuit breaker within the electrical panel is clean and free of dust and debris, which can impede heat dissipation.
- **Professional Check:** Consider having a qualified electrician inspect your electrical panel and circuit breakers every few years to ensure continued safe operation.

Do not attempt to open or repair the circuit breaker. If the breaker appears damaged or malfunctions, it should be replaced by a qualified professional.

8. TROUBLESHOOTING

If your HOM230CP circuit breaker trips, it indicates a protective action against an electrical fault. Follow these steps:

Circuit Breaker Tripping:

1. **Identify Tripped Breaker:** Locate the HOM230CP breaker in your electrical panel. Its handle will be in the 'TRIPPED' (middle) position.
2. **Turn OFF Affected Appliances:** Disconnect or turn off all appliances and devices connected to the tripped circuit.
3. **Reset Breaker:** Firmly push the breaker handle all the way to the 'OFF' position, then push it back to the 'ON' position.
4. **Restore Appliances:** Gradually plug in and turn on appliances one by one to identify if a specific device caused the trip.
5. **Persistent Tripping:** If the breaker trips immediately after resetting, or trips frequently, it indicates a persistent electrical fault (e.g., a short circuit, ground fault, or consistent overload). In such cases, do not attempt further resets. Contact a qualified electrician immediately to diagnose and repair the issue.

Never force a circuit breaker handle to stay in the 'ON' position if it continues to trip. This can lead to serious electrical hazards.

9. WARRANTY AND SUPPORT

The Square D Homeline HOM230CP circuit breaker is covered by a manufacturer's warranty. For specific warranty details, terms, and conditions, please refer to the documentation provided with your purchase or visit the official Schneider Electric website.

For technical support, product inquiries, or assistance with warranty claims, please contact Schneider Electric customer service directly. Contact information can typically be found on the manufacturer's website or on the product packaging.

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