Eaton CHB120

Eaton Cutler-Hammer CHB120 Circuit Breaker User Manual

Model: CHB120

1. Introduction

This manual provides essential information for the safe and proper installation, operation, and maintenance of the Eaton Cutler-Hammer CHB120 1-Pole 20A Circuit Breaker. This device is designed to protect electrical circuits from overcurrents and short circuits, ensuring the safety of your electrical system and connected equipment. Please read this manual thoroughly before any installation or operation.

2. Safety Information

WARNING: Electrical shock hazard. Improper installation or maintenance can result in serious injury or death. All work on electrical systems should be performed by qualified personnel only. Always disconnect power at the main service panel before working on or near circuit breakers.

- Ensure all power is OFF before installation or servicing.
- Use appropriate personal protective equipment (PPE).
- Verify voltage and current ratings match your application.
- Do not use damaged circuit breakers.
- Follow all local and national electrical codes.

3. Product Features

- **Model:** CHB120
- **Poles:** 1 Pole
- **Voltage Rating:** 120/240 Volt
- **Current Rating:** 20 Amp
- **Interrupting Rating:** 10kA@120V
- **Type:** Standard Circuit Breaker
- **Mounting:** Panel Mount

4. Specifications

Specification	Value

Brand	Eaton
Model Number	CHB120
Current Rating	20 Amps
Voltage Rating	120/240 Volts
Number of Poles	1
Circuit Breaker Type	Standard
Mounting Type	Panel Mount
Interrupting Rating	10kA@120V
Product Dimensions	7 x 7 x 7 inches (approximate)
Item Weight	7 pounds (approximate)
UPC	704798904778

5. Installation

Installation of circuit breakers should only be performed by a qualified electrician in accordance with all applicable electrical codes and standards. The following steps are for informational purposes only and do not substitute for professional expertise.

1. **Disconnect Power:** Turn off the main power supply to the electrical panel at the utility meter or main disconnect. Verify power is off using a voltage tester.
2. **Remove Panel Cover:** Carefully remove the cover of the electrical panel.
3. **Identify Slot:** Locate an available slot on the bus bar for the 1-pole CHB120 circuit breaker.
4. **Install Breaker:** Hook the rear of the circuit breaker onto the retaining clip on the panel's bus bar. Press the front of the breaker firmly until it snaps into place.
5. **Connect Wiring:** Connect the circuit wire (hot 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.
6. **Replace Panel Cover:** Once all connections are secure and verified, replace the electrical panel cover.
7. **Restore Power:** Turn the main power supply back on.

Figure 1: Eaton Cutler-Hammer CHB120 1-Pole 20A Circuit Breaker. This image displays the Eaton Cutler-Hammer CHB120 circuit breaker, a single-pole device with a 20 Amp rating. It features a white toggle switch for ON/OFF/TRIPPED states and screw terminals for electrical connections. The model number 'CHB120' is visible on the label.

6. Operation

The CHB120 circuit breaker has three primary positions for its toggle switch:

- **ON:** The circuit is energized, and power is flowing. The toggle is typically pushed fully towards the "ON" marking.
- **OFF:** The circuit is de-energized, and power is interrupted. The toggle is typically pushed fully towards the "OFF" marking.
- **TRIPPED:** When an overcurrent or short circuit occurs, the breaker automatically trips to protect the circuit. The toggle will move to an intermediate position, usually between ON and OFF. To reset a tripped breaker, first push the toggle firmly to the full OFF position, then push it to the full ON position.

7. Maintenance

Circuit breakers generally require minimal maintenance. However, periodic visual inspection is recommended:

- Inspect for any signs of physical damage, discoloration, or burning.
- Ensure all connections are tight. (**WARNING:** Disconnect power before checking connections).
- Keep the electrical panel area clean and free from obstructions.

8. Troubleshooting

If your CHB120 circuit breaker frequently trips, consider the following:

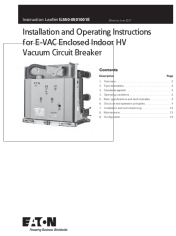
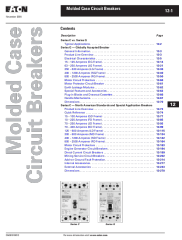
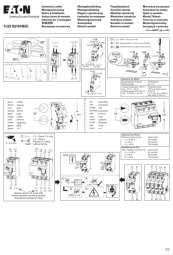
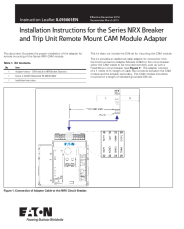
- **Overloaded Circuit:** The most common cause of tripping. Disconnect some appliances or devices from the circuit to reduce the load.
- **Short Circuit:** A direct connection between hot and neutral/ground wires can cause a trip. Inspect wiring and connected devices for damage.
- **Ground Fault:** If current leaks to the ground, it can cause a trip (though this breaker is not a GFCI).
- **Faulty Appliance/Device:** A malfunctioning appliance connected to the circuit can cause repeated tripping. Unplug devices one by one to identify the culprit.
- **Faulty Breaker:** In rare cases, the circuit breaker itself may be defective. If all other causes are ruled out, consult a qualified electrician for inspection and potential replacement.

If you are unable to resolve the issue, contact a qualified electrician.

9. Warranty and Support

Specific warranty information for the Eaton Cutler-Hammer CHB120 circuit breaker is typically provided at the point of purchase or included with the product packaging. For detailed warranty terms, technical support, or service inquiries, please refer to the official Eaton website or contact Eaton customer service directly.
You can visit the Eaton website for more information: www.eaton.com

Related Documents - CHB120

	[Eaton Magnum LV-Air Circuit Breaker User Manual (1812.900A)] Comprehensive user manual for the Eaton Magnum LV-Air Circuit Breaker (model 1812.900A), detailing installation, operation, maintenance, troubleshooting, and renewal parts. Covers fixed and drawout configurations with electronic tripping systems.
	[Eaton E-VAC HV Vacuum Circuit Breaker Installation and Operating Instructions] This guide provides essential installation, operation, maintenance, and technical details for the Eaton E-VAC Enclosed Indoor High Voltage Vacuum Circuit Breaker (Model IL550-0501001E), ensuring safe and efficient use in industrial and power grid applications.
	[Eaton Series G & C Molded Case Circuit Breakers: 15-2500A UL, CSA, IEC] Comprehensive catalog detailing Eaton's Cutler-Hammer Series G and Series C Molded Case Circuit Breakers (MCCBs). Covers product specifications, electrical characteristics, applications, and selection guides for breakers ranging from 15 to 2500 amperes, compliant with UL, CSA, and IEC standards.
	[EATON 11/25 IL019140ZU Instruction Leaflet: RCCB and RCBO Installation Guide] Detailed installation instructions and technical specifications for EATON PL6, PL7, HN, PF6, PF7, and HNC series Residual Current Circuit Breakers (RCCBs) and Residual Current Breakers with Overcurrent Protection (RCBOs), including wiring diagrams and electrical data.
	[Eaton Power Secure Selection Guide: Circuit Breakers and Motor Control Solutions] Discover Eaton's comprehensive Power Secure Selection Guide, featuring Air Circuit Breakers (PSL Series), Molded Case Circuit Breakers (PDC, BZM Series), Miniature Circuit Breakers (E6X Series), and D-Line Series for Motor Control & Protection. Find detailed product specifications, technical data, and selection information for electrical distribution and protection needs.
	[Installation Instructions for Eaton Series NRX Breaker and Trip Unit Remote Mount CAM Module Adapter] This document provides installation instructions for the Eaton Series NRX Breaker and Trip Unit Remote Mount CAM Module Adapter (IL019001EN). It details kit contents, connection procedures to the NRX circuit breaker and CAM module, and includes descriptions of diagrams illustrating the setup. Essential for proper remote mounting of CAM modules with Series NRX breakers.