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Eaton BR48L125FP

Eaton Main Lug Load Center 125 Amp Flush 8 Circuits User Manual

MODEL: BR48L125FP



This image displays the Eaton Main Lug Load Center, a gray metal electrical panel, alongside its white and black retail packaging box. The panel is shown with its cover, and the box features the 'Cutler-Hammer BR Loadcenter' branding.

Introduction

This manual provides essential instructions for the safe installation, operation, and maintenance of your Eaton Cutler-Hammer 125 Amp, 4-space, 8-circuit Flush Mount Main Lug Load Center, Model BR48L125FP. This device is designed to distribute electrical power safely within a residential or commercial setting. Please read this manual thoroughly before proceeding with any installation or operation.

Safety Information

WARNING: Electrical shock hazard. Improper installation or maintenance can result in serious injury or death. This product must be installed and serviced by a qualified electrician in accordance with all national and local electrical codes.

- Always disconnect power at the main service disconnect before working on the load center.

- Use only approved tools and personal protective equipment (PPE).
- Ensure all connections are tight and secure to prevent overheating and fire hazards.
- Do not install in wet or damp locations unless specifically rated for such environments.
- Verify correct wiring polarity and grounding.

Setup and Installation

Installation of the Eaton BR48L125FP load center requires adherence to local electrical codes and safety standards. It is strongly recommended that installation be performed by a licensed electrician.

1. **Preparation:** Turn off all power at the main service panel. Confirm power is off using a voltage tester.
2. **Mounting:** Securely mount the load center enclosure to a stud or solid surface. For flush mount installations, ensure the opening in the wall is appropriately sized.
3. **Wiring the Main Lugs:** Connect the main service entrance conductors to the main lugs. Ensure proper torque specifications are met for all lug connections.
4. **Grounding and Neutral:** Connect the main grounding electrode conductor and neutral conductors to the designated neutral/ground bar.
5. **Circuit Breaker Installation:** Install appropriate Eaton BR-type circuit breakers into the available spaces. Refer to the circuit breaker instructions for proper installation.
6. **Branch Circuit Wiring:** Connect branch circuit conductors to their respective circuit breakers.
7. **Cover Installation:** Once all wiring is complete and inspected, install the front cover and trim.
8. **Power Restoration:** Restore power at the main service disconnect.

Operating Instructions

The Eaton Main Lug Load Center operates by distributing electrical power through individual circuit breakers. Each circuit breaker protects a specific branch circuit from overcurrents and short circuits.

- **Turning a Circuit ON/OFF:** To turn a circuit on, push the breaker handle firmly to the "ON" position. To turn it off, push the handle firmly to the "OFF" position.
- **Resetting a Tripped Breaker:** If a circuit breaker trips (moves to the center or "TRIPPED" position), first disconnect the overloaded device or resolve the short circuit. Then, push the breaker handle firmly to the "OFF" position, and then to the "ON" position to reset it. If it trips again immediately, do not attempt to reset it further and consult a qualified electrician.
- **Labeling:** Clearly label each circuit breaker with the area or appliances it controls for easy identification during operation or troubleshooting.

Maintenance

The Eaton Main Lug Load Center is designed for long-term, reliable operation with minimal maintenance. However, periodic inspection is recommended.

- **Annual Inspection:** Have a qualified electrician inspect the load center annually. This includes checking for loose connections, signs of overheating (discoloration), and proper operation of circuit breakers.
- **Cleaning:** Ensure the area around the load center is clear of obstructions. Keep the exterior clean and free of dust. Do not use liquids inside the panel.
- **Avoid Overloading:** Do not continuously overload circuits, as this can lead to premature breaker failure and potential hazards.

Troubleshooting

This section addresses common issues you might encounter with your load center. For complex problems, always consult a qualified electrician.

Problem	Possible Cause	Solution
Circuit breaker trips frequently.	Overloaded circuit, short circuit, or faulty appliance.	Unplug devices from the circuit. If it still trips, consult an electrician.
No power to an entire section of the house.	Main breaker tripped, or issue with utility service.	Check if the main breaker is tripped. If not, contact your utility provider.
Burning smell or discoloration on the panel.	Loose connection, overheating, or internal fault.	Immediately turn off main power. Contact a qualified electrician. This is a serious hazard.

Specifications

- **Manufacturer:** Eaton Corporation
- **Model Number:** BR48L125FP
- **Amperage Capacity:** 125 Amps
- **Voltage Rating:** 120/240 Volt
- **Number of Spaces:** 4
- **Number of Circuits:** 8 (using tandem breakers)
- **Mounting Type:** Flush Mount
- **Material:** Aluminum
- **Item Weight:** Approximately 29.4 pounds
- **Product Dimensions:** Approximately 45 x 12.5 x 4.3 inches
- **Date First Available:** July 1, 2009

Warranty Information

Specific warranty details for the Eaton BR48L125FP Load Center are typically provided with the product packaging or can be obtained directly from Eaton's official website. Generally, Eaton products come with a limited warranty covering defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.


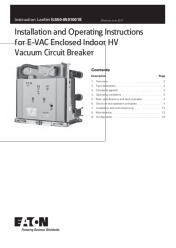




For the most current and detailed warranty information, please visit the official Eaton website or contact their customer support.

Support and Contact

For technical assistance, product inquiries, or support regarding your Eaton Main Lug Load Center, please contact Eaton customer service.

- **Eaton Official Website:** www.eaton.com
- Refer to the product packaging for specific regional contact numbers.

Related Documents - BR48L125FP

 <p>Control panel design guide according to UL 508A</p>	<p>Control Panel Design Guide According to UL 508A</p> <p>A comprehensive guide to designing control panels in compliance with UL 508A standards, covering feeder mains, group motors, individual motor loads, heater/lighting circuits, power circuit wiring, and control circuits. This document provides essential information for engineers and technicians.</p>
 <p>Installation and Operating Instructions for E-VAC Enclosed Indoor HV Vacuum Circuit Breaker</p>	<p>Eaton E-VAC HV Vacuum Circuit Breaker Installation and Operating Instructions</p> <p>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.</p>
 <p>Retrofit Interior Kits</p>	<p>Eaton Retrofit Interior Kits: Upgrade Electrical Panels Safely & Cost-Effectively</p> <p>Eaton's Retrofit Interior Kits provide a cost-effective and safe solution to upgrade outdated electrical panels in homes and apartments without removing the existing enclosure. Learn about features, specifications, and ordering.</p>
 <p>Eaton Magnum LV-Air Circuit Breaker</p>	<p>Eaton Magnum LV-Air Circuit Breaker User Manual (1812.900A)</p> <p>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.</p>
 <p>LG & PD3 Frame circuit breaker instruction leaflet for walking beam interlock</p>	<p>LG & PD3 Frame Circuit Breaker Walking Beam Interlock Installation Instructions</p> <p>Instruction leaflet detailing the installation, assembly, and adjustment of the Eaton LG & PD3 frame circuit breaker walking beam interlock. Includes parts list, diagrams, and safety warnings.</p>
 <p>Eaton Power Secure Selection Guide</p>	<p>Eaton Power Secure Selection Guide: Circuit Breakers and Motor Control Solutions</p> <p>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.</p>

