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Eaton FAZ-C10/3-NA Miniature Circuit Breaker User Manual

Model: FAZ-C10/3-NA

Introduction Safety Information Product Description Setup &
Installation Operation Maintenance Troubleshooting Specifications Warranty & Support

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Eaton FAZ-C10/3-NA Miniature Circuit Breaker. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock and fire hazard. Installation and servicing must be performed by qualified personnel only.

- Always disconnect power at the main service panel before working on or near the circuit breaker.
- Use appropriate lockout/tagout procedures to prevent accidental re-energization.
- Ensure all wiring complies with national and local electrical codes.
- Do not operate the circuit breaker if it appears damaged.
- Never bypass or tamper with the circuit breaker's protective mechanisms.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and eye protection.

3. PRODUCT DESCRIPTION

The Eaton FAZ-C10/3-NA is a high-performance miniature circuit breaker designed for reliable overcurrent protection in various electrical applications. It features a 3-pole configuration, rated for 10 Amperes, and is suitable for both AC (277/480V) and DC (48V) systems. With a 10 kAIC (kiloampere interrupting capacity) rating and a C-Curve tripping characteristic, it provides protection against short circuits and overloads in circuits with moderate

inrush currents. This device is UL 489 listed, ensuring compliance with safety standards.



This image shows the Eaton FAZ-C10/3-NA miniature circuit breaker, highlighting its compact design and terminal connections for DIN rail mounting. The front panel displays the brand, model, and electrical ratings.

4. SETUP AND INSTALLATION

Installation of the Eaton FAZ-C10/3-NA circuit breaker must be performed by a qualified electrician in accordance with all applicable electrical codes and standards.

4.1 Mounting

- The FAZ-C10/3-NA is designed for DIN rail mounting.
- Ensure the DIN rail is securely fastened within an appropriate enclosure.
- Snap the circuit breaker onto the DIN rail by hooking the top edge onto the rail and pressing down until it clicks into place.

4.2 Wiring

- Before wiring, ensure all power to the circuit is OFF and verified with a voltage tester.
- Connect the incoming power conductors to the top terminals of the circuit breaker.
- Connect the load conductors to the bottom terminals of the circuit breaker.
- Ensure all terminal screws are tightened to the manufacturer's specified torque settings to prevent loose connections and potential overheating.
- Verify correct polarity for DC applications.

5. OPERATION

The Eaton FAZ-C10/3-NA circuit breaker provides automatic protection against overcurrents. Its operation is straightforward:

5.1 Turning On/Off

- To turn the circuit ON, push the toggle handle to the 'ON' (upward) position.
- To turn the circuit OFF, push the toggle handle to the 'OFF' (downward) position.

5.2 Tripping and Resetting

- In the event of an overload or short circuit, the circuit breaker will automatically 'trip' to the center position, interrupting the circuit to prevent damage.
- Before resetting a tripped breaker, identify and correct the cause of the overload or short circuit.
- To reset, first push the handle fully to the 'OFF' position, then push it to the 'ON' position.
- If the breaker immediately trips again, do not force it. Consult a qualified electrician.

6. MAINTENANCE

The Eaton FAZ-C10/3-NA miniature circuit breaker is designed for maintenance-free operation under normal conditions. However, periodic inspection is recommended.

- **Visual Inspection:** Periodically inspect the circuit breaker for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the circuit breaker with a dry, lint-free cloth. Do not use solvents or abrasive cleaners.
- **No User-Serviceable Parts:** The circuit breaker contains no user-serviceable parts. Do not attempt to open or repair the unit.

7. TROUBLESHOOTING

If you encounter issues with your Eaton FAZ-C10/3-NA circuit breaker, consider the following common scenarios:

7.1 Breaker Trips Frequently

- **Overload:** The circuit may be drawing more current than the breaker's 10A rating. Reduce the load on the circuit.
- **Short Circuit:** A direct connection between live and neutral/ground wires. This requires immediate investigation by a qualified electrician.
- **Faulty Appliance:** Disconnect appliances one by one to identify a faulty device.

7.2 Breaker Does Not Reset

- Ensure the handle is pushed fully to the 'OFF' position before attempting to reset to 'ON'.
- If it still does not reset, there might be a persistent fault or internal damage. Do not force the handle. Contact a qualified electrician.

7.3 No Power to Circuit

- Check if the circuit breaker is in the 'ON' position.
- Verify that the main power supply to the panel is active.
- If other breakers in the panel are working, the issue might be isolated to this circuit or the breaker itself.

For persistent or complex issues, always consult a qualified electrician.

8. SPECIFICATIONS

Feature	Specification
Brand	Eaton
Model	FAZ-C10/3-NA
Current Rating	10 Amps
Number of Poles	3
Voltage AC	277/480 Volts
Voltage DC	48 Volts
Interrupting Capacity (AIC)	10 kA
Tripping Curve	C-Curve (5-10X In)
Mounting Type	DIN Rail Mount
Standards	UL 489
Item Weight	0.36 Kilograms

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact Eaton directly. Eaton stands behind the quality of its products.

For technical support, product inquiries, or service, please visit the official Eaton website or contact their customer service department. Ensure you have your product model number (FAZ-C10/3-NA) and any relevant purchase details available when seeking support.