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Bryant Electric BR-115

Bryant BR-115 15A 120/240V 1-Pole Circuit Breaker User Manual

Model: BR-115 | Brand: Bryant Electric

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of the Bryant BR-115 15A 120/240V 1-Pole Circuit Breaker. Please read this manual thoroughly before installation or use and retain it for future reference. This device is designed to protect electrical circuits from overcurrents, which can result from overloads or short circuits.

Safety Warning:

- Electrical work should only be performed by qualified personnel.
- Always disconnect power at the main service panel before working on electrical circuits.
- Failure to follow these instructions can result in serious injury or death.

2. PRODUCT OVERVIEW

The Bryant BR-115 is a 15 Amp, 1-pole circuit breaker designed for use in 120/240V electrical systems. It features a standard circuit breaker type and is intended for panel mount applications. This breaker is UL Listed and CSA certified, ensuring compliance with safety standards.

SA
©UND. LAB. INC. LISTED
CIR. BKR. 1 POLE UNIT
ISSUE NO. LK-4009
#004 120/240 VAC E7819

ON

OFF

OFF

BRYANT
TYPE BR
BR-115
CU-AL
SMD

Figure 1: Front view of the Bryant BR-115 15A 1-Pole Circuit Breaker. The image shows the black housing, a blue ON/OFF toggle switch, and labels indicating "ON", "OFF", "BRYANT", "TYPE BR", "BR-115", "CU-AL", and certification marks from UL and CSA. The switch is currently in the "OFF" position.

Key Features:

- **Current Rating:** 15 Amps
- **Voltage Rating:** 120/240 Volts AC
- **Number of Poles:** 1
- **Interrupting Capacity (AIC):** 10,000 Amps
- **Mounting Type:** Panel Mount
- **Wire Compatibility:** Copper (CU) and Aluminum (AL)
- **Certifications:** UL Listed, CSA Certified

3. INSTALLATION

Important: Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.

1. **Power Disconnection:** Locate the main service panel and turn off the main circuit breaker to completely de-energize the electrical system. Verify power is off using a voltage tester.
2. **Panel Access:** Carefully remove the cover of the electrical panel.
3. **Breaker Slot Selection:** Identify an available slot in the panel's bus bar for a 1-pole circuit breaker.
4. **Installation:**
 - Hook the rear clip of the BR-115 breaker onto the bus bar stab.
 - Press the front of the breaker firmly until it snaps securely into place.
5. **Wiring:**
 - Connect the circuit wire (load wire) to the terminal screw on the breaker. Ensure the wire gauge is appropriate for a 15A circuit.
 - Tighten the terminal screw to the manufacturer's specified torque (refer to panel label or breaker markings for exact torque values). This breaker is compatible with both copper and aluminum wiring.
6. **Panel Cover:** Replace the electrical panel cover, ensuring all openings are properly sealed.
7. **Power Restoration:** Turn the main circuit breaker back on.
8. **Testing:** Test the circuit to ensure proper operation and verify that the breaker trips when an overload or short circuit condition is present (e.g., using a circuit breaker tester, if available).

4. OPERATING INSTRUCTIONS

The Bryant BR-115 circuit breaker features a simple ON/OFF toggle switch for operation.

- **To Turn ON:** Push the blue toggle switch firmly to the "ON" position.
- **To Turn OFF:** Push the blue toggle switch firmly to the "OFF" position.
- **Tripped Breaker:** If the breaker trips due to an overload or short circuit, the toggle switch will move to a central or "tripped" position (often between ON and OFF). To reset a tripped breaker:
 - a. First, turn the breaker completely to the "OFF" position.
 - b. Then, push the breaker firmly to the "ON" position.

If the breaker immediately trips again, there is likely a persistent fault in the circuit. Do not repeatedly reset the breaker without investigating the cause.

5. MAINTENANCE

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

- **Visual Inspection:** Annually, or as needed, inspect the breaker for any signs of physical damage, discoloration, or loose connections. Ensure the toggle switch operates smoothly.
- **Cleaning:** If necessary, gently clean the exterior of the breaker with a dry, non-abrasive cloth. Do not use liquids or solvents.
- **Connection Check:** Periodically, with power disconnected, verify that the wire connections to the breaker terminals are secure. Loose connections can cause overheating.
- **Testing:** While not typically required for residential breakers, some commercial or industrial applications may recommend periodic operational testing. Consult local electrical codes and manufacturer guidelines.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Breaker trips immediately after reset.	Persistent short circuit or severe overload in the circuit.	Disconnect all appliances/devices on the circuit. Reset the breaker. If it holds, reconnect devices one by one to identify the faulty one. If it still trips, consult a qualified electrician to inspect wiring.
Breaker trips frequently.	Circuit is overloaded (too many devices drawing power).	Reduce the load on the circuit by moving some devices to another circuit or using fewer devices simultaneously.
Breaker does not trip during an overload.	Faulty breaker or incorrect breaker rating for the circuit.	This is a serious safety concern. Immediately disconnect power to the circuit and have a qualified electrician inspect and replace the breaker if necessary.
Breaker feels hot to the touch.	Overload, loose connection, or internal fault.	Immediately disconnect power to the circuit. Check for overloads or loose connections. If the issue persists, replace the breaker. Consult an electrician.

7. SPECIFICATIONS

Attribute	Value
Brand	Bryant Electric
Model Number	BR-115
Current Rating	15 Amps
Voltage Rating	120/240 Volts AC
Number of Poles	1
Interrupting Capacity (AIC)	10,000 Amps (10K)
Circuit Breaker Type	Standard
Mounting Type	Panel Mount
Wire Compatibility	Copper (CU) and Aluminum (AL)
Certifications	UL Listed, CSA Certified
UPC	653829073788
Item Weight	Approximately 0.01 ounces

8. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the official Bryant Electric website or contact their customer service directly. Warranty terms typically cover manufacturing defects and vary by region and product. Always ensure you have your product model number (BR-115) and purchase date available when contacting support.

Manufacturer: BRYANT

Website: Eaton (Bryant Electric) Official Website (This is a common parent company for Bryant Electric products)