

Murray MPA115AFC

Murray MPA115AFC 15-Amp Single Pole 120-volt Plug-On Combination AFCI Breaker Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of the Murray MPA115AFC 15-Amp Single Pole 120-volt Plug-On Combination Arc Fault Circuit Interrupter (AFCI) Breaker. Please read this manual thoroughly before installation or use and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock or fire. Installation and servicing of this circuit breaker must be performed by a qualified electrician in accordance with all national and local electrical codes. Always turn off power at the main service panel before working on electrical circuits.

- Ensure the main power supply to the electrical panel is disconnected before attempting any installation or maintenance.
- Verify the voltage and current ratings of the circuit breaker match the requirements of your electrical system.
- Do not use this device if it appears damaged.
- This AFCI breaker is designed to detect both parallel (line-to-neutral and line-to-ground) and series arcing faults. It is not a Ground Fault Circuit Interrupter (GFCI).

3. PRODUCT OVERVIEW

The Murray MPA115AFC is a 15-Amp single pole combination AFCI circuit breaker designed for 120-volt applications. It provides enhanced protection against electrical fires caused by arc faults in residential and commercial wiring. Key features include:

- Single pole, 15 Amp, Combination type AFCI circuit breaker.
- LED Trip indicators for clear identification of the last trip condition.
- Improved wire bend space (1/4 inch more than previous designs).
- Both lugs positioned at the same angle for easier wiring.
- 25 lb./in. torque rating for secure wire connections.

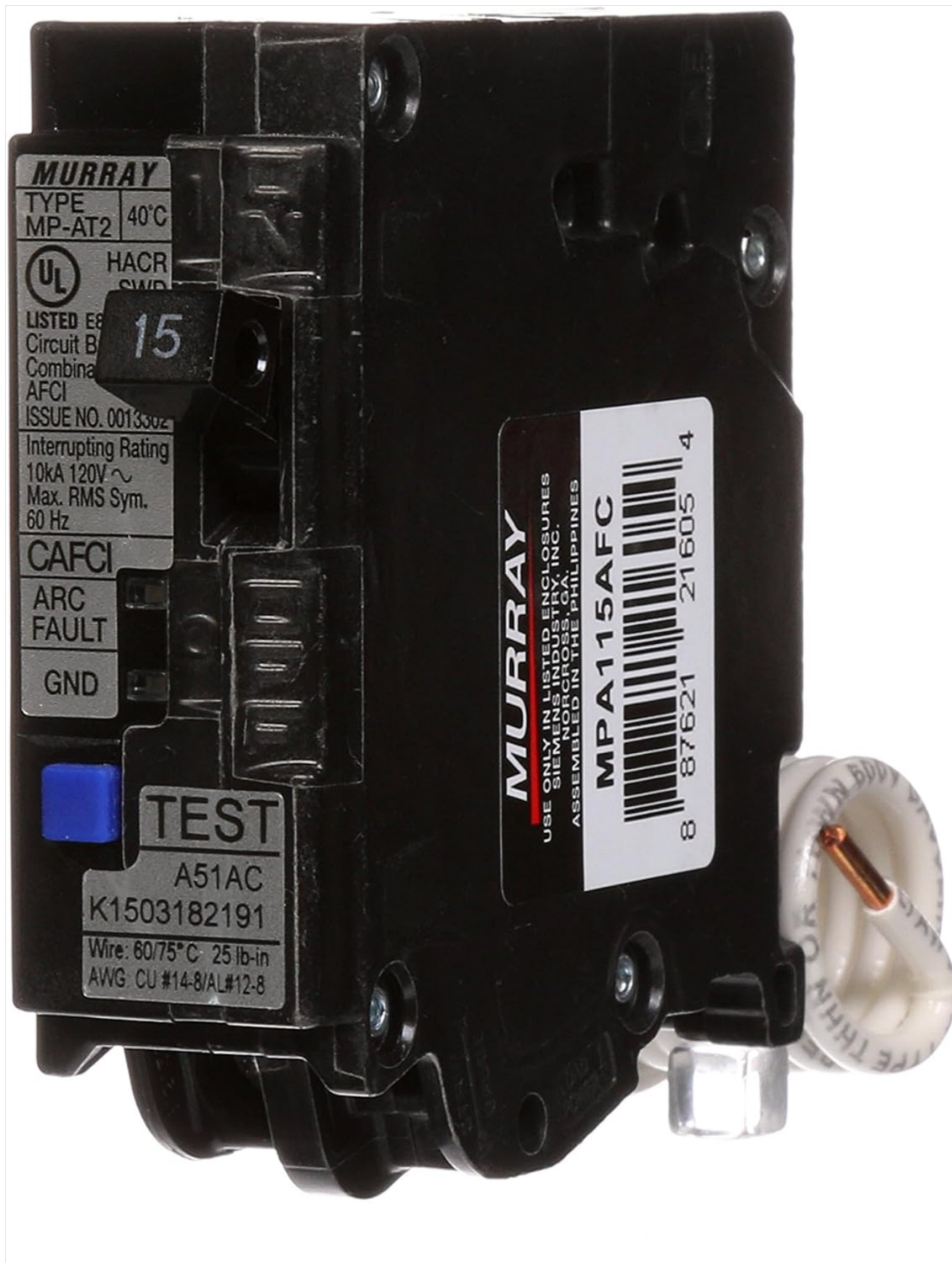


Figure 1: Front view of the Murray MPA115AFC AFCI Breaker. This image displays the breaker's front face, including the 'MURRAY TYPE MP-AT2' label, UL listing, '15' amp rating, 'CAFCI ARC FAULT GND' indicators, and the blue 'TEST' button.

4. SETUP AND INSTALLATION

Installation should only be performed by a qualified electrician.

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:** Select an available slot in the panel for the new AFCI breaker.
4. **Connect Wires:**
 - Connect the circuit's hot (black) wire to the line terminal of the breaker.
 - Connect the circuit's neutral (white) wire to the pigtail neutral wire of the AFCI breaker. The pigtail neutral wire must then be connected to the neutral bus bar in the panel.
 - Ensure all wire connections are tight, adhering to the 25 lb./in. torque rating.
5. **Install Breaker:** Align the breaker with the bus bar and firmly push it into place until it is securely seated.
6. **Replace Panel Cover:** Reinstall the electrical panel cover.
7. **Restore Power:** Turn the main power supply back on.





Figure 2: Side view of the Murray MPA115AFC AFCI Breaker. This image shows the side of the breaker, including a QR code, FCC compliance statement, and patent numbers, which are relevant for regulatory information.

5. OPERATING INSTRUCTIONS

Once installed and power is restored, the AFCI breaker is ready for operation.

- **Turning On/Off:** To turn the circuit on, push the breaker handle firmly to the 'ON' position. To turn it off, push the handle to the 'OFF' position.
- **Testing the AFCI:** Press the blue 'TEST' button located on the front of the breaker. The breaker should immediately trip to the 'TRIPPED' position. If it does not trip, the AFCI may be faulty and should be replaced. Reset the breaker by pushing the handle fully to 'OFF' and then to 'ON'. Perform this test monthly.
- **LED Trip Indicators:** The AFCI breaker features LED indicators near the handle that illuminate for 5 seconds each time the AFCI is turned 'ON' (up to 30 days after the last trip) to indicate the type of trip. Consult the breaker's label or manufacturer's documentation for specific LED code interpretations (e.g., line-to-neutral arc, line-to-ground arc, series arc).

6. MAINTENANCE

AFCI breakers require minimal maintenance. Regular testing is the primary maintenance procedure.

- **Monthly Test:** Perform the 'TEST' button procedure monthly as described in the Operating Instructions.
- **Visual Inspection:** Periodically inspect the breaker for any signs of physical damage, discoloration, or loose connections. If any issues are found, consult a qualified electrician.

7. TROUBLESHOOTING

If the AFCI breaker trips, it indicates that an arc fault or an overload condition has been detected. Follow these steps:

- 1. **Identify Trip Cause:** Observe the LED trip indicators (if active) to determine the type of fault.
- 2. **Disconnect Appliances:** Unplug all appliances and devices from the circuit that tripped the breaker.
- 3. **Reset Breaker:** Push the breaker handle firmly to the 'OFF' position, then to the 'ON' position.
- 4. **Isolate Fault:** If the breaker holds, plug in appliances one by one to identify the faulty device. If the breaker trips immediately upon reset, there may be a wiring issue in the circuit.
- 5. **Professional Assistance:** If the breaker continues to trip without an identifiable cause, or if the LED indicators suggest a persistent wiring issue, contact a qualified electrician for inspection and repair. Do not attempt to bypass the AFCI protection.

8. SPECIFICATIONS

Model	MPA115AFC
Brand	Murray
Current Rating	15 Amps
Voltage	120 Volts
Number of Poles	1
Circuit Breaker Type	Combination AFCI
Interrupting Rating	10KAIC
Frequency	60 Hz
Wire Compatibility	AWG CU #14-8 / AL #12-8
Wire Temperature Rating	60/75°C
Torque Rating	25 lb./in.
Item Weight	4.8 ounces

9. WARRANTY INFORMATION

For detailed warranty information, please refer to the official warranty documentation provided by Murray or visit the manufacturer's website. Keep your purchase receipt as proof of purchase.

10. SUPPORT

If you have questions, require technical assistance, or need to report an issue, please contact Murray customer support through their official website or the contact information provided with your product packaging.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question