**Murray MP240GF**

# Murray MP240GF 40-Amp 2 Pole 240-Volt Ground Fault Circuit Interrupter

INSTRUCTION MANUAL

## 1. Product Overview

The Murray MP240GF is a 40-Amp, 2-pole, 240-Volt Ground Fault Circuit Interrupter (GFCI) designed for use in Murray load centers or meter combinations. This device provides protection against ground faults, which are electrical hazards that can occur when current leaks from a circuit to the ground. It is suitable for applications requiring ground fault protection as mandated by electrical codes, such as in bathrooms, kitchens, and outdoor circuits.

| | | | |
|---|---|---|---|
| MP-GT/MP-HGT<br>1-Pole<br>120V AC | 15<br>20<br>25<br>30 | MP115GF①<br>MP120GF①<br>MP125GF■<br>MP130GF | MP115GFH■①<br>MP120GFH■①<br>—<br>MP130GFH■ |
| MP-GT/MP-HGT<br>2-Pole<br>120/240V AC | 15<br>20<br>30<br>40<br>50<br>60 | MP215GF<br>MP220GF<br>MP230GF<br>MP240GF<br>MP250GF<br>MP260GF | MP215GFH■<br>MP220GFH■<br>MP230GFH■<br>MP240GFH■<br>MP250GFH■<br>MP260GFH■ |

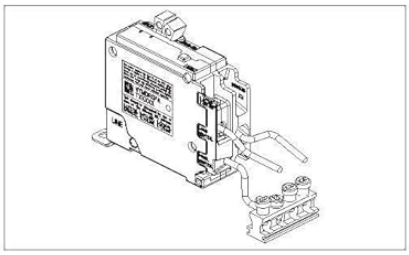
### Ground Fault Equipment Protection (30mA)②

Type EQF circuit breakers provide protection of equipment from damaging line-to-ground fault currents by de-energizing the circuit for all ungrounded conductors of the faulted circuit.

| | | | |
|---|---|---|---|
| MP-ET/MP-HET<br>1-Pole<br>120V AC | 15<br>20<br>30 | MP115EG①<br>MP120EG①<br>MP130EG | MP115EGH■①<br>MP120EGH■①<br>MP130EGH■ |
| MP-ET/MP-HET<br>2-Pole<br>120/240V AC | 15<br>20<br>30<br>40<br>50<br>60 | MP215EG<br>MP220EG<br>MP230EG<br>MP240EG<br>MP250EG<br>MP260EG■ | MP215EGH■<br>MP220EGH■<br>MP230EGH■<br>MP240EGH■<br>MP250EGH■<br>MP260EGH■ |


### AFCI and GFCI Accessories

| Description | Catalog Number |
|---|---|
| Padlocking Device for 1" & Twin Breakers | ECPLD1 |
| Padlocking Device for 2" & Quad Breakers | ECPLD2 |
| Handle Blocking Device for 1/2" Circuit Breakers | ECBX231M |



■ Built to order. Allow 2–3 weeks for delivery.
①UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

②White line neutral (pigtail) must be connected to the panel neutral for the device to function.



Figure 1: Murray MP240GF 2-Pole GFCI Circuit Breaker. This image displays the physical appearance of the 2-pole ground fault circuit interrupter.

## 2. Safety Information

**WARNING:** Electrical shock hazard. Installation and servicing of this circuit breaker should only be performed by qualified personnel. Always turn off power at the main service panel before working on electrical circuits.

- Ensure the main power supply to the load center is disconnected before installation or removal of any circuit breaker.

- Verify that the circuit breaker rating (40-Amp, 2-pole, 240-Volt) matches the requirements of your electrical system and application.
- The use of "used" circuit breakers is strongly discouraged. Installation of used breakers in a Murray (or Siemens) panel will void the warranty on the panel. Murray (and Siemens) does not sell used breakers and has not approved any third-party sellers to do so.
- Consult local electrical codes and an electrical inspector to confirm specific requirements for ground fault protection in your area.

## 3. Features

The Murray MP240GF GFCI circuit breaker offers the following features:

- **Current Rating:** 40-Amp
- **Poles:** 2 Pole
- **Voltage:** 240-Volt AC
- **Mounting Type:** Plug-in type
- **Frame Size:** 2-Inch Frame
- **Certifications:** UL Listed and CSA Certified
- **Interrupting Rating:** Available in 10 KA and 22 KA ("H") interrupting ratings (check specific product labeling).
- **Application Suitability:** Suitable for various applications including spas, hot tubs, kitchens, and bathrooms.
- **Advanced Protection:** Resists false tripping due to RF interference and provides Class A GFCI protection.
- **Design:** Standard 1 inch per pole format with plug-in design.
- **HACR Rated:** Suitable for use with heating, air conditioning, and refrigeration equipment.

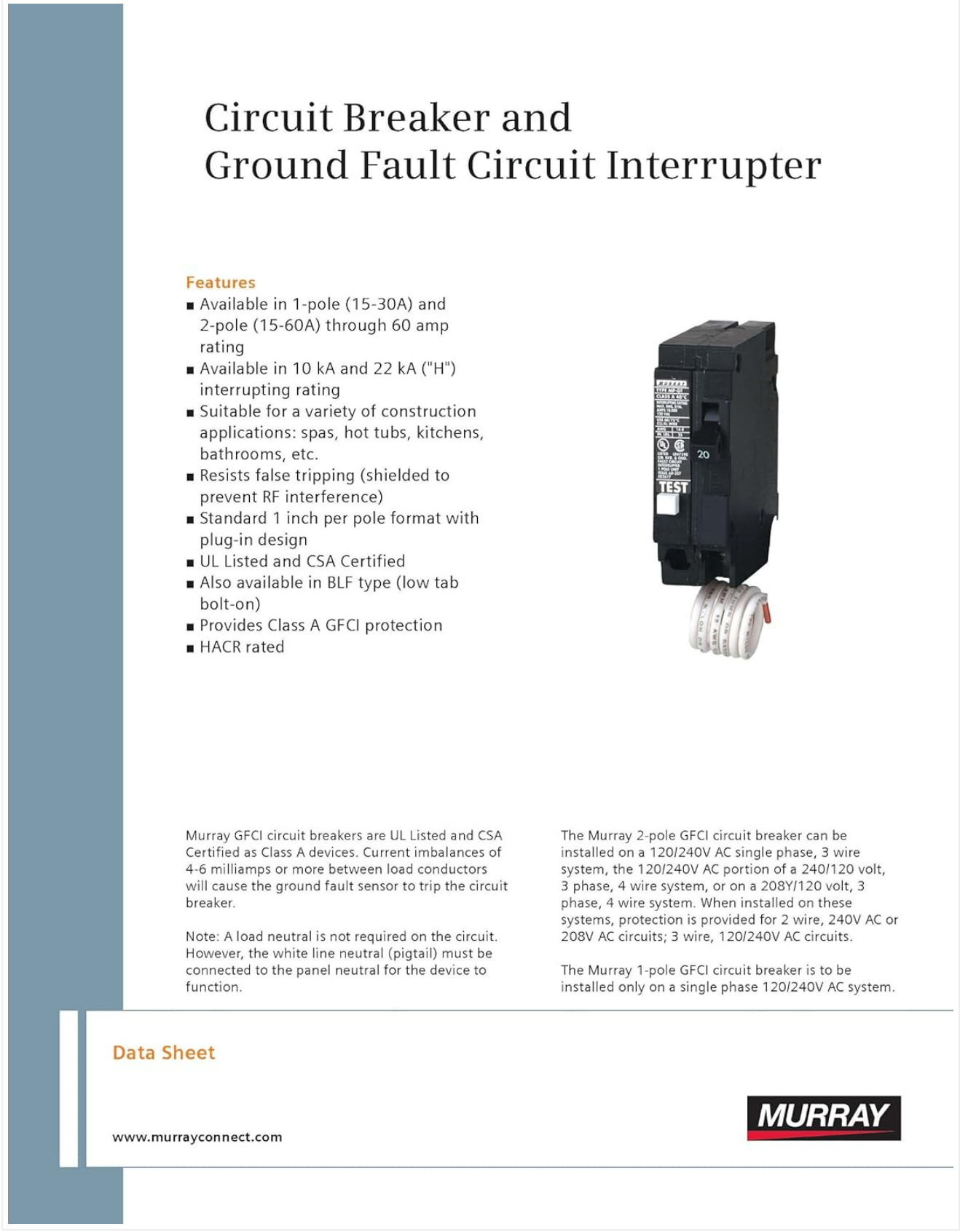



Figure 2: Murray GFCI Circuit Breaker showing the 'TEST' button. This button is used to verify the ground fault protection functionality.

## 4. Installation Instructions

The Murray MP240GF is a plug-in type circuit breaker intended for use in Murray load centers or meter combinations. Follow these general guidelines for installation:

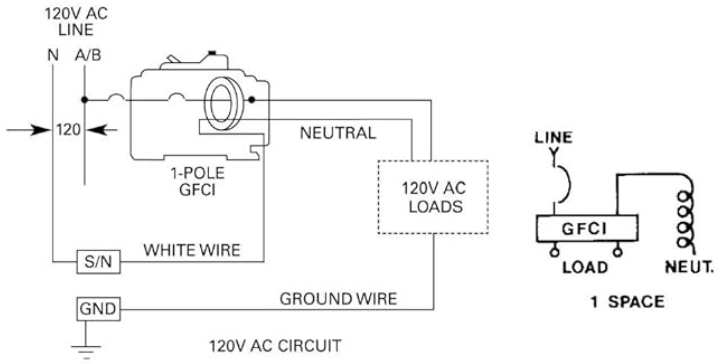
1. **Power Disconnection:** Ensure all power to the load center is completely turned off at the main service

disconnect before beginning installation.

2. **Breaker Placement:** Identify an appropriate 2-inch space in your Murray load center for the 2-pole breaker.
3. **Wiring:** Connect the load wires to the appropriate terminals on the circuit breaker. For a 2-pole 240V GFCI, two hot wires (Line 1 and Line 2) and a neutral wire from the load are connected to the breaker. The white neutral pigtail from the GFCI breaker must be connected to the panel neutral bus. The ground wire from the load should be connected to the panel ground bus.
4. **Mounting:** Align the breaker with the bus bar stabs in the load center and firmly push it into place until it is securely seated.
5. **Verification:** Double-check all connections for tightness and proper wiring according to the diagram.
6. **Restore Power:** Once installation is complete and verified, restore power to the load center.

## Wiring Diagrams

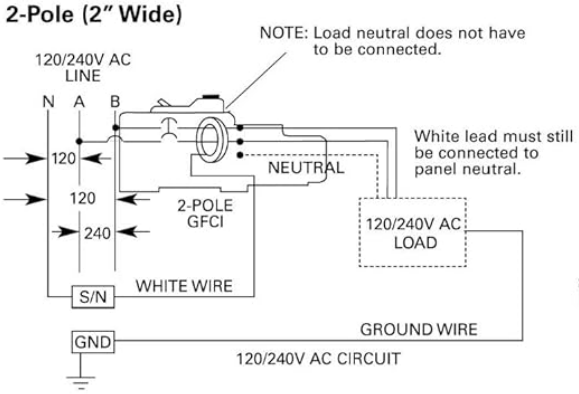
### 1-Pole (1" Wide)

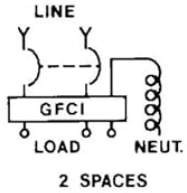






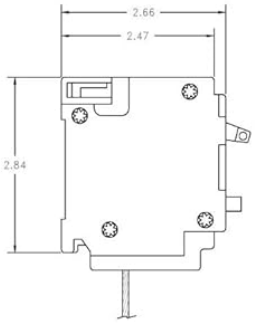
### 2-Pole (2" Wide)



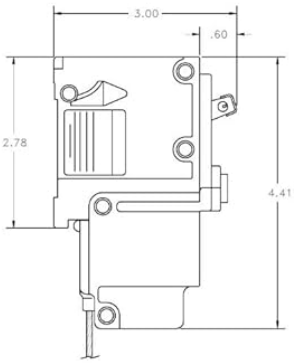




## Dimensions

### 1-Pole (1" Wide)




### 2-Pole (2" Wide)




UL Listed for 60°C or 75°C wire.

## Selection Information

1 Pole, 120V AC, 60Hz
Standard Package - 1 (Approx. Wt. - 15 lbs.)①

| Ampere Rating | Catalog Number | Shipping Carton | Connector CU | Wire Range AL |
|---|---|---|---|---|
| 15 | MP115GF | 30 | #14 - #8 | #14 - #8 |
| 20 | MP120GF | 30 | #14 - #8 | #14 - #8 |
| 30 | MP130GF | 30 | #14 - #6 | #12 - #6 |

① Shipping carton weight

2 Pole, 120/240V AC, 60Hz
Standard Package - 1 (Approx. Wt. - 10 lbs.)①

| Ampere Rating | Catalog Number | Shipping Carton | Connector CU | Wire Range AL |
|---|---|---|---|---|
| 15 | MP215GF | 10 | #14 - #10 | #14 - #8 |
| 20 | MP220GF | 10 | #14 - #10 | #14 - #8 |
| 30 | MP230GF | 10 | #14 - #4 | #14 - #4 |
| 40 | MP240GF | 10 | #14 - #4 | #14 - #4 |
| 50 | MP250GF | 10 | #14 - #4 | #14 - #4 |
| 60 | MP260GF | 10 | #14 - #4 | #14 - #4 |

① Shipping carton weight

Murray Electrical Products
Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092
1-800-241-4453
info.us@siemens.com



MYFL-GFCIN-1011

www.murrayconnect.com

Figure 3: 2-Pole GFCI Wiring Diagram. This diagram illustrates the correct electrical connections for installing a 2-pole ground fault circuit interrupter in a 240V AC circuit.

*Note: A load neutral is not required on the circuit itself for a 2-pole GFCI, but the white line neutral (pigtail) from the breaker must be connected to the panel neutral for the device to function correctly.*

## 5. Operating Instructions

The GFCI circuit breaker is designed to automatically trip (turn off) when it detects a ground fault, protecting against

electrical shock. It also functions as a standard circuit breaker, tripping on overcurrents or short circuits.

- **Normal Operation:** In normal operation, the breaker handle will be in the "ON" position.
- **Tripped Condition:** If a ground fault, overcurrent, or short circuit occurs, the breaker will trip. The handle will move to an intermediate "TRIPPED" position (typically between ON and OFF).
- **Resetting the Breaker:** To reset a tripped GFCI breaker, first push the handle firmly to the "OFF" position, then push it to the "ON" position. If the breaker immediately trips again, there may still be a fault in the circuit that needs to be addressed.
- **Testing the GFCI:** Regularly test the GFCI functionality by pressing the "TEST" button located on the breaker (refer to Figure 2). The breaker should immediately trip. To restore power, reset the breaker as described above. Perform this test monthly to ensure proper operation.

## 6. Maintenance

GFCI circuit breakers require minimal maintenance. Regular testing is the most important maintenance procedure.

- **Monthly Testing:** Press the "TEST" button monthly to ensure the GFCI mechanism is functioning correctly.
- **Visual Inspection:** Periodically inspect the breaker for any signs of physical damage, discoloration, or loose connections. If any issues are observed, consult a qualified electrician.
- **Cleaning:** Keep the area around the circuit breaker clean and free from dust and debris. Do not use liquids to clean the breaker.

## 7. Troubleshooting

If your Murray MP240GF GFCI circuit breaker trips, consider the following:

- **Immediate Trip After Reset:** If the breaker trips immediately after being reset, there is likely a persistent ground fault or an overload/short circuit in the protected circuit. Disconnect all appliances and devices from the circuit and try resetting the breaker. If it holds, plug in devices one by one to identify the faulty appliance. If it still trips with nothing connected, the fault is likely in the wiring itself.
- **Frequent Tripping:** Occasional tripping might indicate a minor, intermittent fault or an overloaded circuit. Reduce the load on the circuit or investigate for intermittent ground faults.
- **Breaker Does Not Reset:** Ensure you are pushing the handle fully to the "OFF" position before attempting to push it to "ON". If it still won't reset, the breaker itself may be faulty, or there is a severe, continuous fault.
- **No Power, Breaker Not Tripped:** Check the main service panel for other tripped breakers or issues with the main power supply.

For persistent issues or if you are unsure about electrical troubleshooting, contact a qualified electrician.

## 8. Specifications

| Specification | Value |
| --- | --- |
| **Brand** | Murray |
| **Model** | MP240GF |
| **Current Rating** | 40 Amps |
| **Number of Poles** | 2 |
| **Voltage** | 240 Volts |

| Specification | Value |
| --- | --- |
| **Circuit Breaker Type** | GFCI (Ground Fault Circuit Interrupter) |
| **Mounting Type** | Plug-In Mount |
| **UPC** | 040892529975 |
| **Item Weight** | 0.18 Pounds |

## 9. Warranty Information

**Important Warranty Notice:** Siemens (the manufacturer of Murray products) strongly recommends against the use of "used" breakers. The installation of used breakers in a Siemens panel will void the warranty on the panel. Siemens does not sell used breakers and has not approved any 3rd party sellers to do so. For specific warranty details regarding your Murray MP240GF circuit breaker, please refer to the documentation provided with your purchase or contact Murray/Siemens customer support.

## 10. Customer Support

For technical assistance, questions regarding installation, or warranty claims, please contact Murray or Siemens customer support. Refer to the official Murray or Siemens website for current contact information.
**Online Resources:** www.murrayconnect.com