Leviton LB115-DFT

Leviton LB115-DFT 15A 1-Pole Plug-On AFCI/GFCI Branch Circuit Breaker

Model: LB115-DFT

Brand: Leviton

Introduction

This manual provides essential information for the safe installation, operation, and maintenance of the Leviton LB115-DFT 15 Amp 1-Pole Plug-On AFCI/GFCI Branch Circuit Breaker. This device is designed to provide both Arc Fault Circuit Interrupter (AFCI) and Ground Fault Circuit Interrupter (GFCI) protection for 120 VAC circuits, enhancing electrical safety in residential applications.
Important: Installation and servicing of electrical equipment should only be performed by qualified personnel. Always disconnect power at the main service panel before working on electrical circuits.

Important Safety Information

- **DANGER:** Turn OFF power at the main service panel before installing or servicing this device. Failure to do so may result in serious injury or death.
- This product must be installed in accordance with all national and local electrical codes.
- Consult a qualified electrician if you are unsure about any part of these instructions.
- Do not use this device if it appears damaged.
- **WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Product Features

- **Easy Installation:** Revolutionary design allows the entire Load Center to be wired at rough-in without any circuit breakers present.
- **Enhanced Safety:** Features patented reset lockout technology, preventing the breaker from resetting if ground or arc fault protection is compromised.
- **Intuitive Indicators:** LEDs communicate trip condition and type of fault, remaining illuminated even when tripped for clear diagnostics.
- **User-Friendly Operation:** Rocker-style switches require less activation force compared to traditional

circuit breakers.

Setup and Installation

The Leviton LB115-DFT circuit breaker is designed for plug-on installation into compatible Leviton load centers. Follow these steps carefully:

1. **Disconnect Power:** Locate the main service panel and turn off the main breaker to completely de-energize the electrical system. Verify power is off using a voltage tester.
2. **Prepare Wiring:** Identify the circuit wires (line, load, neutral, and ground) that will connect to the breaker. Strip insulation from the ends of the wires as required by the load center's specifications.
3. **Connect Wires:** Connect the load wire to the load terminal on the breaker. Connect the neutral wire to the neutral terminal on the breaker. Connect the pigtail neutral wire from the breaker to the neutral bar in the load center. Connect the ground wire to the ground bar in the load center. Ensure all connections are tight and secure.
4. **Install Breaker:** Align the breaker's clip with the bus bar in the load center. Push the breaker firmly onto the bus bar until it is fully seated and securely latched.
5. **Secure Cover:** Replace the load center cover, ensuring all openings are properly sealed.
6. **Restore Power:** Turn the main breaker back ON at the service panel.

Front view of the Leviton LB115-DFT 1-Pole 15-Amp AFCI/GFCI circuit breaker, showing the OFF/TEST switch, ON indicator, 15-amp rating, and AF/GF fault indicators.

A hand installing a Leviton circuit breaker into a load center, demonstrating the plug-on installation process.

Operating Instructions

Turning On/Off

The circuit breaker features a rocker-style switch. To turn the circuit ON, push the switch to the 'ON' position. To turn the circuit OFF, push the switch to the 'OFF' position. If the breaker trips due to a fault, the switch will move to the 'OFF' position.

Testing the Breaker

Regular testing ensures the AFCI/GFCI protection is functioning correctly. It is recommended to test the breaker monthly.

1. Ensure the circuit breaker is in the 'ON' position and power is supplied to the circuit.
2. Press the 'TEST' button located on the front of the breaker.
3. The breaker should immediately trip to the 'OFF' position, indicating a successful test.
4. To restore power, push the switch completely to the 'OFF' position, then back to the 'ON' position.
5. If the breaker does not trip when the 'TEST' button is pressed, it may be faulty and should be replaced by a qualified electrician.

Two Leviton circuit breakers showing color indicators in the handle. One is green for ON, the other is red for OFF/Tripped, illustrating operational status at a glance.

Two Leviton circuit breakers with line-side powered LEDs indicating fault types (AF for Arc Fault, GF for Ground Fault), aiding in quick fault identification.

Maintenance

The Leviton LB115-DFT circuit breaker requires minimal maintenance. Regular testing as described in the 'Operating Instructions' section is the primary maintenance activity.

- Perform the monthly test to ensure proper AFCI/GFCI function.
- Keep the area around the load center clean and free from obstructions to allow for proper ventilation and access.
- Do not attempt to repair the circuit breaker. If it is faulty, it must be replaced.

Troubleshooting

Breaker Trips Frequently

- **Overload:** The circuit may be drawing more current than the breaker's rating (15 Amps). Reduce the number of devices connected to the circuit.

- **Short Circuit:** A direct connection between the hot and neutral wires, or hot and ground wires, can cause a short. Inspect wiring and connected appliances for damage.
- **Ground Fault:** Current leaking from the circuit to ground. This can be caused by damaged insulation, moisture, or faulty appliances. Disconnect appliances one by one to identify the source.
- **Arc Fault:** An unintended arc in the electrical wiring or devices. This can be caused by damaged wires, loose connections, or faulty equipment.

Breaker Does Not Reset

The Leviton LB115-DFT features patented reset lockout technology. If a ground fault or arc fault condition persists, the breaker will not reset to the 'ON' position. You must identify and correct the fault condition before the breaker can be reset. If the fault cannot be identified or corrected, consult a qualified electrician.

Specifications

Feature	Detail
Model Number	LB115-DFT
Current Rating	15 Amp
Poles	1-Pole
Voltage	120 VAC
Breaker Type	AFCI/GFCI (Dual Function), Thermal Magnetic
Mounting Type	Plug-On
Interrupting Rating	10 Kiloamps
Product Dimensions (approx.)	3.1"D x 1"W x 3.9"H

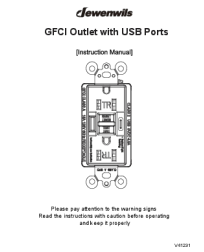
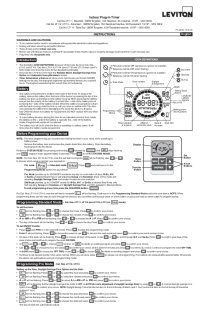
Warranty Information

Leviton products are manufactured to high-quality standards and are backed by a limited warranty. Specific warranty terms and conditions may vary. For detailed and up-to-date warranty information, please refer to the official Leviton website or contact Leviton customer service directly.

Support and Contact

For technical assistance, product inquiries, or further support, please visit the official Leviton website or contact their customer support department.
Leviton Official Website: www.leviton.com

Related Documents - LB115-DFT

	[Leviton SmartlockPro GFCI Receptacle Installation and Testing Guide] Comprehensive guide to installing and testing Leviton SmartlockPro Ground Fault Circuit Interrupter (GFCI) receptacles. Covers safety precautions, wiring, troubleshooting, and product features.
	[Leviton GFNT1-DIN/GFNT2-DIN DIN Rail Mount GFCI Receptacle Installation Guide] Comprehensive guide for installing and testing Leviton's GFNT1-DIN and GFNT2-DIN DIN Rail Mount GFCI Receptacles, including wiring instructions, safety precautions, and troubleshooting.
	[Leviton GFCI Receptacle Installation and Testing Guide] A comprehensive guide on how to install and test a Leviton SmartLock Pro GFCI Receptacle, including wiring instructions, safety precautions, and troubleshooting tips.
	[Leviton GFCI Outlet with USB Ports Installation and Operation Manual] Comprehensive guide for installing and operating Leviton GFCI Outlets with USB Ports, including wiring instructions, safety warnings, testing procedures, and warranty information.
	[Installing and Testing Leviton Smart GFCI Outlet: A Comprehensive Guide] Step-by-step instructions for installing and testing Leviton Smart GFCI outlets (models D2GF1, D2GF2). Learn about GFCI functionality, wiring, troubleshooting, and safety precautions.
	[Leviton Indoor Plug-In Timer Instructions & Specifications (LT111, LT112, LT113, LT114)] Detailed instructions, programming guide, and specifications for Leviton Indoor Plug-In Timers, including models LT111, LT112, LT113, and LT114. Learn how to set schedules, use override functions, and understand features like Daylight Savings Time and Sunup/Sundown.