Leviton LM100-T

Leviton 100A 2-Pole Main Circuit Breaker User Manual

Model: LM100-T | Brand: Leviton

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Leviton LM100-T 100A 2-Pole Main Circuit Breaker. This circuit breaker is designed to provide overload and short circuit protection for your home electrical system, ensuring safety and reliability. It features thermal magnetic trip technology and is rated for 120/240V with a 22kA Interrupt Rating. Please read this manual thoroughly before proceeding with any installation or operation.

2. Important 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. Failure to follow these instructions can result in serious injury or death.

- Always disconnect power at the main service panel before working on circuit breakers or any electrical wiring.
- Use only approved tools and personal protective equipment (PPE) when working with electrical systems.
- Ensure the circuit breaker's ratings (amperage, voltage, interrupt rating) match the requirements of your electrical system and load center.
- Do not install or operate this device if it appears damaged.
- This product is designed for use with Leviton Load Centers. Compatibility with other brands is not guaranteed and may void warranty or safety certifications.

3. Product Overview

The Leviton LM100-T 100A 2-Pole Main Circuit Breaker is a robust and reliable component for your electrical distribution system. Its design prioritizes ease of installation and long-term performance within Leviton Load Centers.

Key Features:

- **Overload and Short Circuit Protection:** Safeguards your electrical system from damaging current fluctuations.
- **Convertible Design:** All Leviton Load Centers come standard with 225A bussing, allowing for flexible adaptation to project scope changes without needing to replace the entire load center.
- **Proprietary Compatibility:** Specifically designed for seamless integration and optimal performance with Leviton Load Centers.
- **Modern Aesthetic:** Features a white powder-coated finish that complements the modern design of Leviton Indoor Load Centers.

Product Views:



Front view of the Leviton 100A 2-Pole Main Circuit Breaker, showing the 'OFF' switch and 'LEVITON 100' branding.



Angled view of the circuit breaker, highlighting its compact form factor and terminal connections.



Front view of the breaker with black side attachments, demonstrating its full assembly.



Angled view of the breaker including the black side attachments, providing a comprehensive look at the unit.

4. Specifications

Brand	Leviton
Model Number	LM100-T
Current Rating	100 Amps
Number of Poles	2
Voltage	120/240 Volts
Interrupt Rating	22kA
Circuit Breaker Type	Standard, Thermal Magnetic
Mounting Type	Snap-In Mount

Color	White
Material	High-grade electrical composite
Item Weight	2.5 pounds
Product Dimensions	6.56 x 3.75 x 4.13 inches
Item Package Quantity	1
Included Components	Breaker
Batteries Required?	No
Country of Origin	China
UPC	078477225622

5. Setup and Installation

The Leviton LM100-T circuit breaker is designed for quick and secure installation within compatible Leviton Load Centers. Its snap-in mount feature simplifies the process, reducing installation time.

Installation Steps:

1. **Safety First:** Ensure all power to the load center is completely disconnected at the main utility disconnect before beginning any work. Verify with a voltage tester.
2. **Prepare Wiring:** Neatly land branch phase and neutral wires at the rough-in stage directly on the load center's bus bars, as the breaker itself does not require wiring connections. This design allows for more working space.
3. **Mount Breaker:** Align the circuit breaker with the appropriate slot in the Leviton Load Center. The snap-in design allows for easy insertion. Firmly press the breaker into place until it clicks securely onto the bus bar.
4. **Verify Connection:** Ensure the breaker is fully seated and makes proper contact with the bus bar.
5. **Restore Power:** Once all breakers are installed and the load center cover is secured, restore power at the main utility disconnect.

Note: No official seller video demonstrating the installation of this specific circuit breaker was available with the provided data. For general guidance on Leviton Load Center installation, consult the load center's manual or a qualified electrician.

6. Operating Instructions

The Leviton LM100-T circuit breaker operates as a protective device for your electrical circuits. It has two primary states: ON and OFF, and a tripped state.

Basic Operation:

- **ON Position:** When the switch is in the 'ON' position, power is supplied through the circuit breaker to the connected circuit.
- **OFF Position:** When the switch is in the 'OFF' position, power to the connected circuit is interrupted. This position is used for manual disconnection of power for maintenance or safety.

- **Tripped Position:** In the event of an overload or short circuit, the breaker will automatically move to a tripped position (often midway between ON and OFF, or fully OFF depending on the specific mechanism). This indicates that the breaker has detected a fault and has safely interrupted the power to prevent damage or hazards.

Resetting a Tripped Breaker:

1. **Identify Cause:** Before resetting, try to identify and resolve the cause of the trip (e.g., unplug overloaded appliances, fix short circuits).
2. **Fully OFF:** Move the breaker handle firmly to the full 'OFF' position. You may feel a slight click.
3. **Return to ON:** Then, firmly push the handle to the full 'ON' position.
4. **If it Trips Again:** If the breaker immediately trips again, there is still a fault in the circuit. Do not attempt to reset it repeatedly. Consult a qualified electrician.

7. Maintenance

Leviton circuit breakers are designed for long-term, maintenance-free operation under normal conditions. However, periodic inspection by a qualified electrician is recommended to ensure continued safety and performance.

Recommended Maintenance Practices:

- **Visual Inspection:** Periodically inspect the circuit breaker for any signs of physical damage, discoloration, or loose connections.
- **Dust Removal:** Ensure the load center interior and breakers are free from excessive dust and debris, which can impede proper operation and heat dissipation.
- **Professional Check:** Have a qualified electrician inspect your electrical panel and circuit breakers every few years, or immediately if you notice any unusual smells, sounds, or frequent tripping.

Do NOT attempt to open or repair the circuit breaker yourself. There are no user-serviceable parts inside.

8. Troubleshooting

Most issues with circuit breakers relate to tripping. Understanding why a breaker trips is key to resolving the problem.

Common Issues and Solutions:

Problem	Possible Cause	Solution
Breaker trips frequently	Overloaded circuit (too many devices), short circuit, ground fault, faulty appliance, or faulty wiring.	Unplug some devices from the circuit. If it continues, unplug all devices and try resetting. If it still trips, there may be a short circuit or ground fault. **Consult a qualified electrician immediately.**
Breaker does not reset	Persistent fault on the circuit, or internal damage to the breaker.	Ensure the handle is moved fully to the OFF position before attempting to reset to ON. If it still won't reset, **do not force it. Consult a qualified electrician.**

Breaker feels hot to the touch	Overload, loose connection, or internal fault.	This is a serious safety concern. **Immediately turn off power to the entire load center at the main utility disconnect and contact a qualified electrician.**

For any issues not covered here, or if you are unsure about any electrical work, always contact a qualified and licensed electrician.

9. Warranty and Support

Warranty Information:

The Leviton LM100-T 100A 2-Pole Main Circuit Breaker is covered by a**10-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service. For full details regarding warranty terms, conditions, and limitations, please refer to the official Leviton warranty documentation available on their website or contact Leviton customer service.

Customer Support:

For technical assistance, product inquiries, or warranty claims, please contact Leviton customer support through their official website or by phone. Always have your product model number (LM100-T) and UPC (078477225622) ready when contacting support.

Visit the official Leviton website for the most up-to-date information, FAQs, and contact details:www.leviton.com

© 2024 Leviton Manufacturing Co., Inc. All rights reserved.
This manual is subject to change without notice.

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

Anonymous

Email

you@example.com

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