JFUDJKLI TOMPD-63

JFUDJKLI TOMPD-63 Circuit Breaker Energy Meter User Manual (No Backlight)

Model: TOMPD-63

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the JFUDJKLI TOMPD-63 Circuit Breaker Energy Meter. This device integrates voltage, current, and leakage protection with energy measurement and timer functions, designed for enhanced electrical safety and monitoring in various applications. Please read this manual thoroughly before use to ensure safe and efficient operation.

2. Safety Information

WARNING: Electrical shock hazard. Installation and servicing should only be performed by qualified personnel.

- Always disconnect power at the main circuit breaker before installing or servicing the device.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the device if it appears damaged.
- This device is designed for indoor use in dry environments. Avoid exposure to moisture or extreme temperatures.
- The leakage protection function is critical for safety. Test it regularly as per local regulations.

3. Product Features

The TOMPD-63 is a versatile device offering comprehensive electrical monitoring and protection:

- **Remote Control:** Control on/off functionality anytime, anywhere.
- **Real-time Monitoring:** Check current, voltage, leakage current, and total power consumption.
- **Timer Function:** Programmable timer for automated operations.

- **Adjustable Protection Settings:** Customizable thresholds for overvoltage, undervoltage, overcurrent, leakage current, and temperature.
- **Undervoltage Protection:** Adjustable range 85V-220V (default 170V).
- **Overvoltage Protection:** Adjustable range 110V-300V (default 275V).
- **Overcurrent Protection:** Adjustable range 1A-63A (default 63A).
- **Leakage Protection:** Adjustable value 10-300mA.
- **Prepaid Function:** Supports prepaid electricity management.
- **Low Power Consumption:** Less than 2W.

4. Package Contents

Verify that all items are present in the package:

- 1 x JFUDJKLI TOMPD-63 Circuit Breaker Energy Meter (No Backlight)
- 1 x User Manual (this document)

5. Setup and Installation

Installation of the TOMPD-63 requires electrical knowledge. It is strongly recommended that a certified electrician performs the installation.

Image showing the front view of the JFUDJKLI TOMPD-63 Circuit Breaker Energy Meter, displaying its compact design and digital display area.

1. **Power Disconnection:** Before starting, ensure the main power supply to the installation area is completely disconnected at the service panel. Use a voltage tester to confirm no power is present.
2. **Mounting:** Mount the TOMPD-63 device securely on a DIN rail within an appropriate electrical enclosure.
3. **Wiring:**
    - Connect the incoming live (L) and neutral (N) wires to the designated input terminals of the TOMPD-63.
    - Connect the outgoing live (L) and neutral (N) wires to the load terminals of the TOMPD-63.
    - Ensure all connections are tight and correct according to the wiring diagram provided on the device or in supplementary documentation (if available).
4. **Initial Power-Up:** Once all connections are secure, restore power to the main circuit. The device should power on and display initial readings.
5. **Configuration:** Refer to the "Operating Instructions" section to configure protection parameters and timer settings as required for your application.

6. Operating Instructions

The TOMPD-63 features a user-friendly interface for monitoring and setting parameters. Specific button functions and menu navigation will depend on the device's physical buttons (if any) and display. General operations include:

6.1. Basic Monitoring

Upon power-up, the device will typically display real-time voltage, current, and power. Use the navigation buttons (if present) to cycle through different display modes to view leakage current and total energy consumption.

6.2. Setting Protection Parameters

To adjust protection thresholds (undervoltage, overvoltage, overcurrent, leakage current):

1. Enter the settings menu (usually by pressing and holding a specific button, refer to device labels).
2. Navigate to the desired protection setting (e.g., "UVP" for Undervoltage Protection).
3. Use the adjustment buttons to set the desired value within the specified range.
4. Confirm and save the setting.
5. Repeat for other protection parameters as needed.

Default settings: Undervoltage 170V, Overvoltage 275V, Overcurrent 63A, Leakage 10-300mA.

6.3. Timer Function

The timer function allows for scheduled on/off operations:

1. Access the timer settings menu.
2. Set the desired activation time (1s-30s, default 1s) and disconnection/reconnection time (1s-500s, default 5s).
3. Configure specific schedules for turning the connected load on or off.
4. Save the timer settings to activate them.

6.4. Remote Control (if applicable)

If the device supports remote control via an app or other interface, follow the instructions provided with the specific remote control module or application to pair and operate the device remotely.

7. Maintenance

The TOMPD-63 is designed for minimal maintenance. However, regular checks ensure optimal performance and safety:

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure power is off before cleaning.
- **Connection Checks:** Annually, or as required by local codes, have a qualified electrician inspect all wiring connections for tightness and signs of wear or corrosion.
- **Functionality Test:** Regularly test the leakage protection function using the dedicated test button (if available) or by simulating a fault condition under controlled circumstances.
- **Firmware Updates:** If the device supports firmware updates (e.g., via a connected app), ensure it is kept up-to-date for improved functionality and security.

8. Troubleshooting

If you encounter issues with your TOMPD-63, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	No power supply; incorrect wiring; internal fault.	Check main power supply. Verify wiring connections. If problem persists, contact support.
Device trips frequently.	Overcurrent, overvoltage, undervoltage, or leakage fault detected; sensitive settings.	Check connected load for faults. Review and adjust protection settings if they are too sensitive for your application. Consult an electrician.
Incorrect readings displayed.	Loose connections; sensor malfunction.	Ensure all wiring connections are secure. If readings remain inaccurate, contact support.
Timer function not working.	Incorrect timer settings; timer not activated.	Review and correct timer settings. Ensure the timer function is enabled.

For issues not listed here or if solutions do not resolve the problem, please contact customer support.

9. Specifications

- **Rated Voltage:** 85-300V
- **Frequency:** 50Hz/60Hz
- **Activation Time:** 1s-30s (adjustable, default: 1s)
- **Disconnection Reconnection Time:** 1s-500s (adjustable, default: 5s)
- **Undervoltage Protection:** 85V-220V (adjustable, default: 170V)
- **Overvoltage Protection:** 110V-300V (adjustable, default: 275V)
- **Overcurrent Protection:** 1A-63A (adjustable, default: 63A)
- **Leakage Protection Value:** 10-300mA
- **Power Consumption:** Less than 2W
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches
- **Item Weight:** 1.76 ounces
- **Model Number:** TOMPD-63
- **Manufacturer:** JFUDJKLI

10. Warranty and Support

For warranty information and technical support, please contact the manufacturer, JFUDJKLI, or your authorized dealer. Keep your purchase receipt as proof of purchase. Do not attempt to repair the device yourself, as this may void the warranty and pose safety risks.
For further assistance, please visit the official JFUDJKLI website or refer to the contact information provided with your purchase.