bvycumdkwt-npgs

Generic Tuya WiFi Automatic Reclosing Circuit Breaker User Manual

Model: bvycumdkwt-npgs

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Generic Tuya WiFi Automatic Reclosing Circuit Breaker. This device is designed to automatically restore power after temporary faults, monitor electrical parameters, and offer remote control capabilities for home automation systems. Please read this manual thoroughly before use and retain it for future reference.

2. Product Features

- **Digital LCD Display:** Shows real-time electricity data including voltage, current, leakage value, and power consumption with high accuracy.
- **Mobile App Control:** Remote on/off control via the Tuya mobile app, with real-time monitoring of current, voltage, leakage current, and total kWh usage. Includes timing schedules and device-sharing functions.
- **Multiple Protections:** Integrates overvoltage, undervoltage, overcurrent, and leakage protections with customizable threshold settings.
- **Automatic Reclosing:** Detects faults (leakage, overvoltage, undervoltage), automatically cuts off power, and recloses once the fault is cleared.
- **Easy Installation:** Compact size suitable for DIN rail mounting in distribution boxes, requiring no screws for installation.

3. Safety Information

WARNING: Electrical installation and maintenance should only be performed by qualified personnel. Failure to follow these instructions can result in electric shock, fire, or serious injury.

- 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.
- Keep the device away from water and excessive moisture.

4. Package Contents

- 1 x Automatic Reclosing Protector
- 1 x User Manual (this document)

5. Product Overview

Familiarize yourself with the components and display of the Automatic Reclosing Protector.

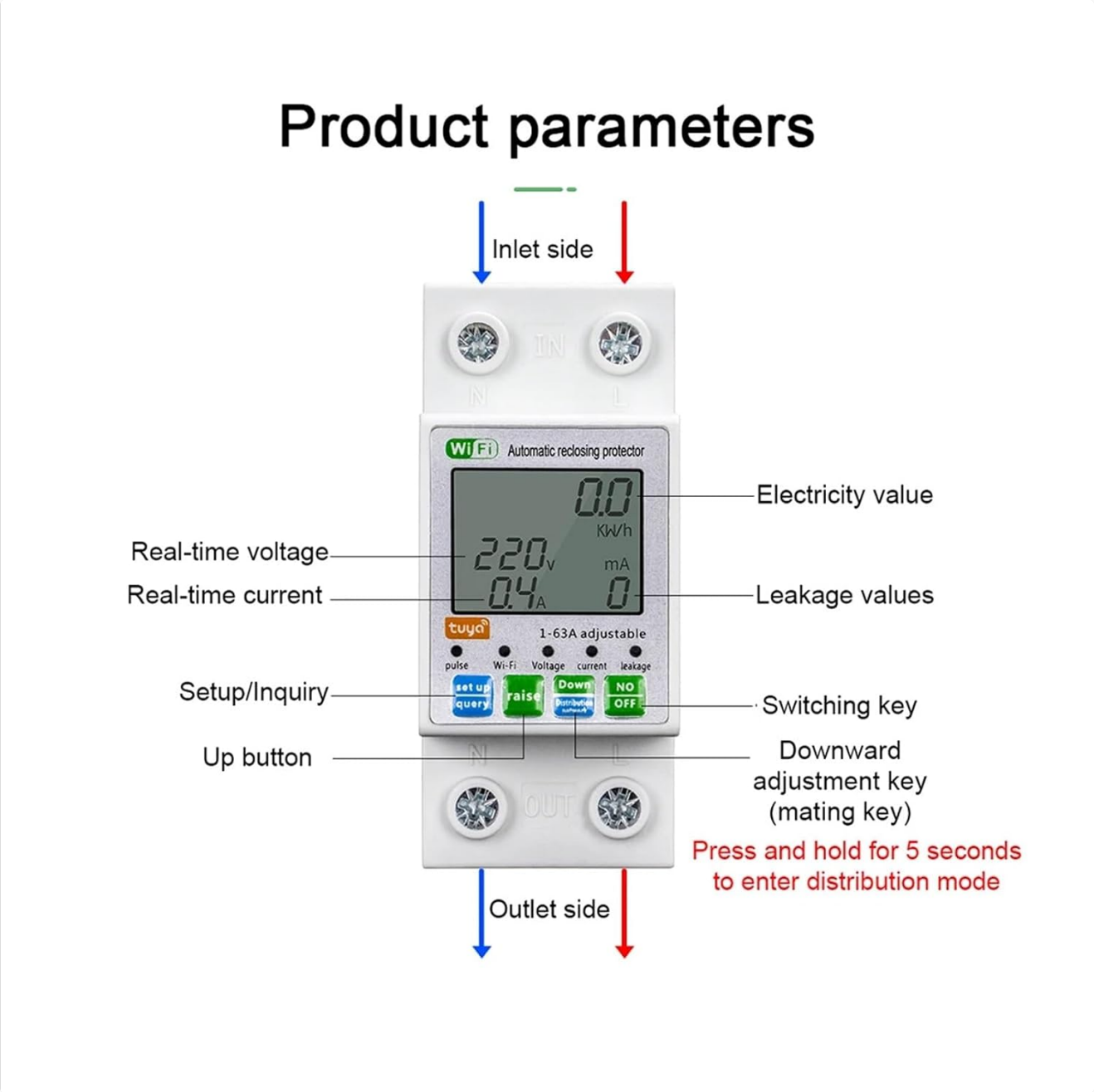


Figure 5.1: Labeled components of the Automatic Reclosing Protector. This image highlights the inlet and outlet terminals, the LCD display showing electricity value, real-time voltage, real-time current, and leakage values, along with the control buttons for setup/inquiry, up, switching, and downward adjustment.



Figure 5.2: Digital LCD Display. The display provides real-time readings for electricity consumption (kWh), voltage (V), current (A), and leakage current (mA).

6. Specifications

Parameter	Value
Name	Automatic Reclosing Protector
Material	Durable flame retardant plastic
Item Size	85 x 36 x 66mm (3.35 x 1.42 x 2.60 inches)
Package Size	89 x 72 x 41mm (3.50 x 2.83 x 1.61 inches)
Package Weight	160g (5.64 ounces)
Brand	Generic

Parameter	Value
Model	bvycumdkwt-npgs
Current Rating	1-63A adjustable
Connectivity	WiFi (Tuya app compatible)



Figure 6.1: Product Dimensions. The image illustrates the physical measurements of the device, including its width, height, and depth for installation planning.

7. Setup and Installation

The device is designed for DIN rail mounting. Ensure power is disconnected before proceeding.

1. **Power Disconnection:** Turn off the main power supply to the electrical panel where the circuit breaker will be installed. Verify power is off using a voltage tester.
2. **Mounting:** Snap the Automatic Reclosing Protector onto a standard DIN rail within your distribution box. No

screws are required for mounting.

3. **Wiring:**
    - Connect the incoming live (L) and neutral (N) wires to the 'IN' (Inlet side) terminals at the top of the device.
    - Connect the outgoing live (L) and neutral (N) wires to the 'OUT' (Outlet side) terminals at the bottom of the device.
    - Ensure all connections are tight and secure.
4. **Power Restoration:** Once wiring is complete and verified, restore power to the electrical panel.
5. **Initial Power-On:** The device LCD display should illuminate.

7.1. Tuya App Pairing (WiFi Version)

To enable remote control and monitoring, pair the device with the Tuya Smart app.

1. **Download App:** Download the 'Tuya Smart' app from your smartphone's app store (iOS or Android).
2. **Register/Login:** Create an account or log in to your existing Tuya Smart account.
3. **Enter Pairing Mode:** Press and hold the 'Down' button (often labeled 'NO OFF' or similar, as indicated in Figure 5.1) for 5 seconds to enter distribution (pairing) mode. The WiFi indicator on the device should start blinking rapidly.
4. **Add Device:** In the Tuya Smart app, tap '+' to add a new device. Select 'Auto Scan' or manually find the 'Circuit Breaker' or 'Protector' category.
5. **Connect to WiFi:** Follow the in-app instructions to connect the device to your 2.4GHz WiFi network.
6. **Confirmation:** Once successfully paired, the WiFi indicator on the device will stop blinking and remain solid. The device will appear in your Tuya Smart app.

8. Operating Instructions

8.1. LCD Display Operation

The LCD display provides real-time electrical data:

- **Voltage (V):** Displays the current line voltage.
- **Current (A):** Displays the current load.
- **Leakage (mA):** Displays the leakage current.
- **Power Consumption (kWh):** Displays accumulated energy usage.

Use the 'Setup/Inquiry' button to cycle through different display parameters or access settings menus.

8.2. Mobile App Control

The Tuya Smart app allows comprehensive control and monitoring:



Figure 8.1: Mobile App Control Interface. The image shows how the Tuya app displays real-time energy data, including total energy, kWh, voltage, current, and leakage, allowing for remote monitoring and control.

- **Remote On/Off:** Toggle the circuit breaker's power state from anywhere.
- **Real-time Monitoring:** View current, voltage, leakage current, and total kWh usage.
- **Timing Schedules:** Set schedules for automatic power on/off.
- **Electricity Metering:** Track and analyze energy consumption.
- **Device Sharing:** Share control of the device with other family members.

8.3. Protection Settings

The device offers customizable protection thresholds. These can typically be adjusted via the Tuya app or directly on the device using the 'Up' and 'Down' buttons in conjunction with the 'Setup/Inquiry' button.

- **Overvoltage Protection:** Set a maximum voltage limit. If exceeded, power is cut.
- **Undervoltage Protection:** Set a minimum voltage limit. If voltage drops below, power is cut.
- **Overcurrent Protection:** Set a maximum current limit (e.g., 63A). If exceeded, power is cut.

- **Leakage Protection:** Set a maximum leakage current. If exceeded, power is cut.

8.4. Automatic Reclosing Function

When a fault (overvoltage, undervoltage, overcurrent, or leakage) occurs, the device will automatically trip and cut off power. Once the fault condition is no longer present, the device will automatically reclose and restore power after a short delay (typically a few seconds), ensuring continuous operation of connected appliances.

9. Maintenance

The Automatic Reclosing Protector is designed for minimal maintenance. However, regular checks can ensure optimal performance and safety.

- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently wipe the exterior of the device with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Firmware Updates:** Check the Tuya Smart app for any available firmware updates for the device to ensure you have the latest features and security enhancements.

10. Troubleshooting

If you encounter issues with your Automatic Reclosing Protector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	No power supply; incorrect wiring.	Check main circuit breaker. Verify wiring connections are correct and secure.
Device trips frequently.	Overload, overvoltage, undervoltage, or leakage fault; protection thresholds set too low.	Check connected load for faults. Adjust protection thresholds in the app or on the device if appropriate for your electrical system. Consult an electrician if issues persist.
Cannot connect to Tuya app.	Incorrect pairing mode; WiFi signal weak; incorrect WiFi password; 5GHz WiFi network.	Ensure device is in pairing mode (blinking WiFi indicator). Check WiFi signal strength. Verify WiFi password. Ensure you are connecting to a 2.4GHz WiFi network.
LCD display is blank or unreadable.	No power; display fault.	Check power supply. If power is present and display remains blank, contact support.

11. Warranty and Support

This product comes with a standard manufacturer's warranty. Please refer to the purchase documentation or contact your retailer for specific warranty terms and conditions.
For technical support or further assistance, please contact the vendor or manufacturer through the contact information provided at the point of purchase.

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

Details

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