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TOMZN TOB9-VAP

TOMZN TOB9-VAP 63A 1P+N WiFi Smart Switch Energy Meter Instruction Manual

Model: TOB9-VAP (VA Protect, 1-63A Adjustable)

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your TOMZN TOB9-VAP 63A 1P+N WiFi Smart Switch Energy Meter. This device is a miniature circuit breaker (MCB) with integrated energy metering (Kwh, Voltage, Amperage, Wattage), monitoring, and timer relay functions, compatible with TUYA Smartlife applications. It is designed to protect electrical circuits from overloads and short circuits while offering smart control and energy consumption insights.

2. Safety Information

WARNING: Risk of Electric Shock.

- Installation and maintenance must be performed by qualified personnel only.
- 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 unless otherwise specified for specific outdoor enclosures.
- The device is rated for 1P+N (Single Phase + Neutral) systems. Ensure correct polarity during installation.

3. Product Overview

The TOMZN TOB9-VAP is a versatile smart circuit breaker offering protection and advanced monitoring capabilities.

3.1. Key Features

- **Overload and Short Circuit Protection:** Prevents damage caused by excessive current.
- **Energy Metering (Kwh, V, A, W):** Monitors real-time and historical energy consumption.
- **WiFi Connectivity:** Remote control and monitoring via smartphone app.
- **Timer Relay Function:** Schedule on/off times for connected loads.
- **VA Protection:** Adjustable Voltage and Amperage protection settings.
- **TUYA Smartlife Compatible:** Integrates with popular smart home platforms.

- **Durable Construction:** Made with high-quality insulating, flame-retardant, and UV-resistant materials.
- **Secure Connections:** Screw-type terminals for stable electrical connections.

3.2. Components and Indicators

Figure 1: TOMZN TOB9-VAP WiFi Smart Switch Energy Meter (Metering VA Protection, 1-63A Adjustable). This image

shows the device with its input (Power) and output (Load) terminals, WiFi indicator, CE mark, signal light, and the main power button. The display indicates 'Metering VA protection In: 1-63A'.

Figure 2: TOMZN TOB9-63M WiFi Smart Switch Energy Meter (Metering). This variant includes energy metering

capabilities (kW·h, W, V, A) but may not have the adjustable VA protection of the TOB9-VAP.

Figure 3: TOMZN TOB9-63T WiFi Smart Switch (No Metering). This basic variant provides WiFi control and circuit protection without energy metering functions.

- **Power Terminals (N, L):** Input connections for neutral and live wires.
- **Load Terminals (N, L):** Output connections for neutral and live wires to the load.
- **WiFi Indicator:** Shows the status of the WiFi connection.
- **Signal Light:** Indicates device status.
- **Main Power Button:** Manual ON/OFF control for the circuit breaker.
- **Display (TOB9-VAP/TOB9-63M):** Shows real-time energy data (Kwh, W, V, A) and protection settings.

4. Setup

4.1. Installation and Wiring

1. **Power Disconnection:** Before starting, ensure the main power supply to the installation area is completely disconnected.
2. **Mounting:** Mount the TOB9-VAP on a standard DIN rail within an appropriate electrical enclosure.
3. **Input Wiring:** Connect the incoming neutral wire to the 'N' terminal under 'Power' and the incoming live wire to the 'L' terminal under 'Power'. Ensure secure screw-type connections.
4. **Output Wiring:** Connect the neutral wire to your load to the 'N' terminal under 'Load' and the live wire to your load to the 'L' terminal under 'Load'.
5. **Verification:** Double-check all connections for tightness and correct polarity.
6. **Restore Power:** Once installation is complete and verified, restore power to the main circuit.

4.2. App Pairing (TUYA Smartlife)

1. **Download App:** Download the 'TUYA Smart' or 'Smart Life' app from your smartphone's app store.
2. **Register/Login:** Create an account or log in to your existing account.
3. **Add Device:** In the app, tap '+' to add a new device. Select 'Electrical' > 'Circuit Breaker (Wi-Fi)'.
4. **Pairing Mode:** Ensure the TOB9-VAP's WiFi indicator is blinking rapidly. If not, press and hold the main power button for 5-10 seconds until it blinks rapidly to enter pairing mode.
5. **Connect to WiFi:** Follow the in-app instructions to connect the device to your 2.4GHz WiFi network. (5GHz networks are not supported).
6. **Device Renaming:** Once paired, you can rename the device for easy identification in the app.

5. Operating Instructions

5.1. Manual Operation

- **Turn ON/OFF:** Press the main power button on the device to manually switch the circuit breaker ON or OFF.

5.2. App Control and Monitoring

- **Remote ON/OFF:** Use the TUYA Smartlife app to remotely switch the circuit breaker ON or OFF.
- **Energy Monitoring:** View real-time and historical data for Kwh consumption, current (A), voltage (V), and power (W) directly in the app.
- **Timer/Schedule:** Set up schedules or countdown timers for automatic ON/OFF operations.
- **VA Protection Settings:** Adjust the over-voltage, under-voltage, over-current, and over-power protection

thresholds within the app. The device will automatically trip if these thresholds are exceeded.

- **Scene Automation:** Integrate the device into smart scenes with other TUYA-compatible devices.

6. Maintenance

- **Regular Inspection:** Periodically inspect the device and its wiring for any signs of damage, loose connections, or overheating.
- **Cleaning:** Clean the exterior of the device with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Firmware Updates:** Check the TUYA Smartlife app for any available firmware updates to ensure optimal performance and security.
- **Professional Check:** For any internal issues or complex repairs, consult a qualified electrician.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose wiring; internal fault.	Check main power supply. Verify all wiring connections. If problem persists, contact support.
WiFi indicator not blinking/connecting.	Incorrect pairing mode; weak WiFi signal; 5GHz network.	Ensure device is in rapid blinking pairing mode. Move device closer to router. Ensure router is 2.4GHz.
Device trips frequently.	Overload/short circuit; incorrect VA protection settings.	Reduce load on the circuit. Check for short circuits. Adjust VA protection thresholds in the app if necessary.
Inaccurate energy readings.	Incorrect wiring; device malfunction.	Verify wiring connections. If problem persists, contact support.

8. Specifications

Feature	Detail
Model	TOB9-VAP
Rated Current	1-63A (Adjustable)
Rated Voltage	90-300V AC
Frequency	50/60Hz
Poles	1P+N
Connectivity	WiFi (2.4GHz only)
App Compatibility	TUYA Smart / Smart Life
Protection Features	Overload, Short Circuit, Over-Voltage, Under-Voltage, Over-Current, Over-Power
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	3.53 ounces

Feature	Detail
Manufacturer	Generic (TOMZN)
Item Model Number	JCZWUUZZB-DFE767306BB9FC909ED20C115B9

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

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