DEWIN XAAARECQI

DEWIN Automatic Reset WiFi Residual Current Circuit Breaker (1P+N, 40A, 30mA, 230VAC, Type A) Instruction Manual

1. Introduction

The DEWIN Automatic Reset WiFi Residual Current Circuit Breaker is an advanced electrical safety device designed to protect against electrical shocks and overcurrents. Featuring automatic reclosing capabilities and smart WiFi connectivity, it minimizes manual intervention and ensures a continuous power supply. This manual provides essential information for safe installation, operation, and maintenance of the device.



Figure 1: DEWIN Automatic Reset WiFi Residual Current Circuit Breaker

2. Product Features

- **Automatic Power Restoration:** Automatically restores power after fault resolution, minimizing manual intervention and ensuring uninterrupted electrical supply.
- **Customizable Scheduled Activities:** Allows pre-setting device start/stop times to adapt to peak and off-peak tariffs, street lighting management, and equipment energy-saving scenarios, thereby reducing energy consumption.
- **Electricity Consumption Analysis:** Real-time recording of energy consumption curves helps users optimize energy usage habits.
- **High Breaking Capacity:** Capable of interrupting currents up to 6 kA, rapidly isolating short circuits and overloads.
- **Multiple Protection Mechanisms:** Integrated with overvoltage, undervoltage, overcurrent, leakage current, and temperature monitoring to form a comprehensive circuit protection network, effectively preventing fire hazards.
- **Dual-Mode Connectivity (Wi-Fi and GPRS):** Supports integration with major global cloud platforms. Users

can remotely switch power on/off and monitor usage via mobile apps (e.g., Tuya Smart). GPRS maintains device connectivity even during network outages, ensuring seamless control.

- **High-Quality Materials:** The housing is made from high-quality flame-retardant materials, offering heat resistance and anti-aging properties. Certified according to various rigorous safety standards, it adapts to different global voltage environments.
- **Flexible Installation:** Features a compact design that reduces volume by 30% compared to traditional switches, fitting various distribution box spaces. Particularly suitable for retrofitting outdated circuits or restricted areas, allowing for seamless and discreet upgrades.



Figure 2: Overview of Multiple Functions

3. Specifications

Attribute	Value
Manufacturer	DEWIN
Part Number	XAAARECQI
Item Weight	230 g
Product Dimensions	14 x 4 x 9 cm
Model Number	XAAARECQI
Size	One Size
Color	One Color
Quantity per Pack	1
Electrical Socket Type	Wall, Surface

Batteries Included?	No
Batteries Required?	No
Rated Current	40 Ampere
Switch Type	Residual Current Circuit Breaker with Automatic Reset
Mounting Type	Wall, Surface
Number of Poles	1

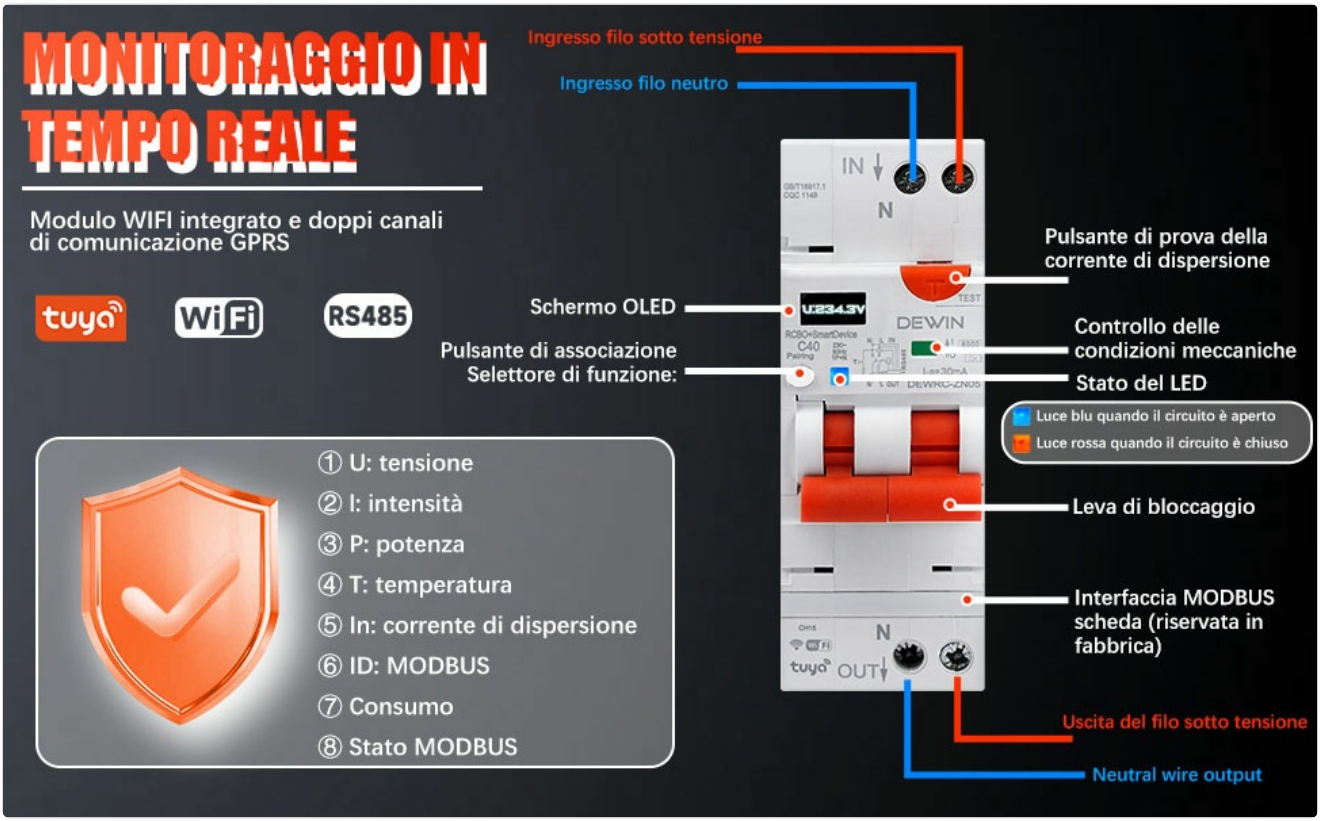


Figure 3: Flexible Installation Design

4. Installation and Setup

Installation should only be performed by a qualified electrician in accordance with local electrical codes and regulations. Ensure the main power supply is disconnected before beginning any installation work.

4.1 Wiring

1. Connect the incoming live (L) and neutral (N) wires to the 'IN' terminals at the top of the circuit breaker.
2. Connect the outgoing live (L) and neutral (N) wires to the 'OUT' terminals at the bottom of the circuit breaker.
3. Ensure all connections are secure and tightened to prevent loose contacts.



Figure 4: Wiring Diagram and Real-time Monitoring Interface

4.2 Initial Power-Up and Pairing

1. After wiring, restore the main power supply. The device's display will show the current voltage.
2. Download the Tuya Smart app (or compatible smart home app) on your smartphone.
3. Ensure your phone is connected to a 2.4 GHz Wi-Fi network.
4. Open the app and select 'Add Device'.
5. On the circuit breaker, press and hold the pairing button (usually a white button near the display) until the indicator light flashes, indicating it's in pairing mode.
6. Follow the on-screen instructions in the app to complete the device pairing process.

Video 1: Wiring, Manual Operation, and App Pairing Demonstration
This video demonstrates the physical wiring of the circuit breaker, how to manually operate it, and the steps to pair it with the Tuya Smart app for remote control and monitoring.

5. Operating Instructions

5.1 Manual Operation

The circuit breaker can be manually switched ON or OFF using the orange lever. In case of a fault, the lever will trip to the OFF position.

5.2 Automatic Reclosing Mode

The device is equipped with an automatic reclosing function. After a trip due to a temporary fault (e.g., transient overcurrent), the device will attempt to reclose the circuit after a set delay. If the fault persists after multiple reclosing attempts, the device will remain in the tripped state for safety.



Figure 5: Automatic Reclosing Logic

Video 2: Automatic Reclosing Demonstration
This video illustrates the automatic reclosing feature of the circuit breaker, showing how it attempts to restore power after a temporary fault.

5.3 Remote Control via App

Once paired with the Tuya Smart app, you can:

- **Remote ON/OFF:** Switch the circuit breaker on or off from anywhere using your smartphone.
- **Scheduling:** Set custom schedules for the device to turn on or off at specific times, optimizing energy usage.
- **Energy Monitoring:** View real-time voltage, current, power, and total energy consumption data. Analyze historical data to understand and optimize your energy habits.
- **Protection Settings:** Adjust parameters for overvoltage, undervoltage, overcurrent, and temperature protection thresholds.

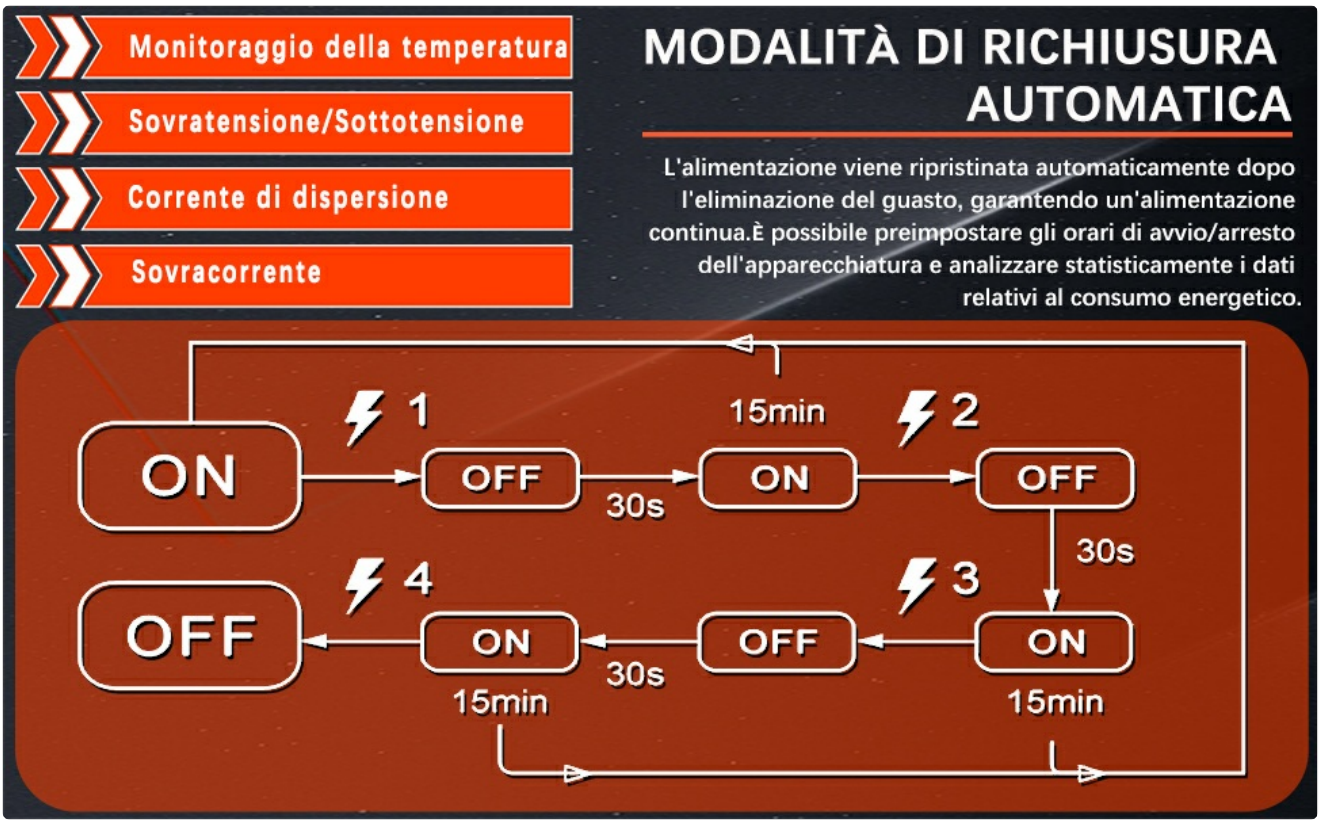


Figure 6: Remote Control and Monitoring Interface

Video 3: Tuya App Features and Remote Control
This video demonstrates the various features available through the Tuya Smart app, including remote switching, scheduling, and real-time energy monitoring.

6. Safety Information

- Always disconnect the main power supply before installing or servicing the device.
- Do not attempt to repair or modify the device yourself. Contact qualified personnel for assistance.
- Ensure proper grounding to prevent electrical shock.
- Do not operate the device in wet or damp conditions.
- Regularly check for any signs of damage or overheating.

7. Maintenance

The DEWIN Automatic Reset WiFi Residual Current Circuit Breaker requires minimal maintenance. However, regular checks are recommended:

- **Visual Inspection:** Periodically inspect the device for any physical damage, loose connections, or signs of overheating.
- **Test Button:** Press the 'TEST' button monthly to ensure the residual current protection function is working correctly. The device should trip immediately. Reset it manually after the test.
- **Cleaning:** Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning.

8. Troubleshooting

- **Device Not Powering On:** Check the main power supply and ensure all wiring connections are secure.

- **Device Not Connecting to Wi-Fi:** Ensure your Wi-Fi network is 2.4 GHz. Verify the Wi-Fi password. Try resetting the device to pairing mode and re-attempting the connection.
- **Frequent Tripping:** This could indicate a persistent electrical fault. Check for overloaded circuits, short circuits, or ground faults in your electrical system. Consult a qualified electrician.
- **Automatic Reclosing Failure:** If the device fails to reclose after a trip, it might be due to a persistent fault or the maximum number of reclosing attempts has been reached. Manually inspect the circuit for faults before attempting to reset.
- **Inaccurate Readings:** Ensure the device is correctly wired and calibrated (if applicable).

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation included with your product packaging or visit the official DEWIN website. Keep your purchase receipt as proof of purchase for warranty claims.