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› DEWIN Automatic Reclosing Residual Current Circuit Breaker (RCCB) 4P 63A 30mA AC 400V Instruction Manual

DEWIN 4P 63A 30mA AC 400V

DEWIN Automatic Reclosing Residual Current Circuit Breaker (RCCB)

MODEL: 4P 63A 30mA AC 400V

1. Introduction

Thank you for choosing the DEWIN Automatic Reclosing Residual Current Circuit Breaker (RCCB). This manual provides essential information for the safe and efficient installation, operation, and maintenance of your device. Please read this manual thoroughly before installation and keep it for future reference. This product is designed to enhance electrical safety by automatically reclosing after an unexpected trip, minimizing downtime and maintenance efforts.

2. Safety Information

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

- Always disconnect power before installing or servicing the device.
- Ensure the device is correctly rated for your electrical system (voltage, current, leakage current).
- Do not operate the device if it is damaged or malfunctioning.
- This product is not applicable to personal photovoltaic systems installed in homes.

3. Product Overview

The DEWIN Automatic Reclosing RCCB is an advanced circuit protection device designed for various applications, including home grids, smart homes, and new energy grids. It features automatic reclosing functionality to restore power quickly after a trip.

Key Features:

- **Automatic Reclosing:** Automatically resets after an unexpected MCB/RCCB trip, eliminating manual resets and reducing maintenance costs.
- **Integrated Triple Reclosing:** If a fault persists and causes continuous tripping within 15 minutes, auxiliary contacts will issue a warning.
- **Manual/Automatic Selection Switch:** Equipped with a manual/automatic selection switch with dual mechanical

and electronic locking functions for enhanced safety.

- **Stable and Reliable Shaft Transmission:** Features LED indicators to display operating status, ensuring stable and reliable operation.
- **Wide Application:** Suitable for terminal lines of power grids, unattended mobile phone base stations, elevators, air conditioners, smart homes, smart factories, and new energy vehicle charging stations.

Components:

The device consists of several key components for its operation and control.

Panel Introduction

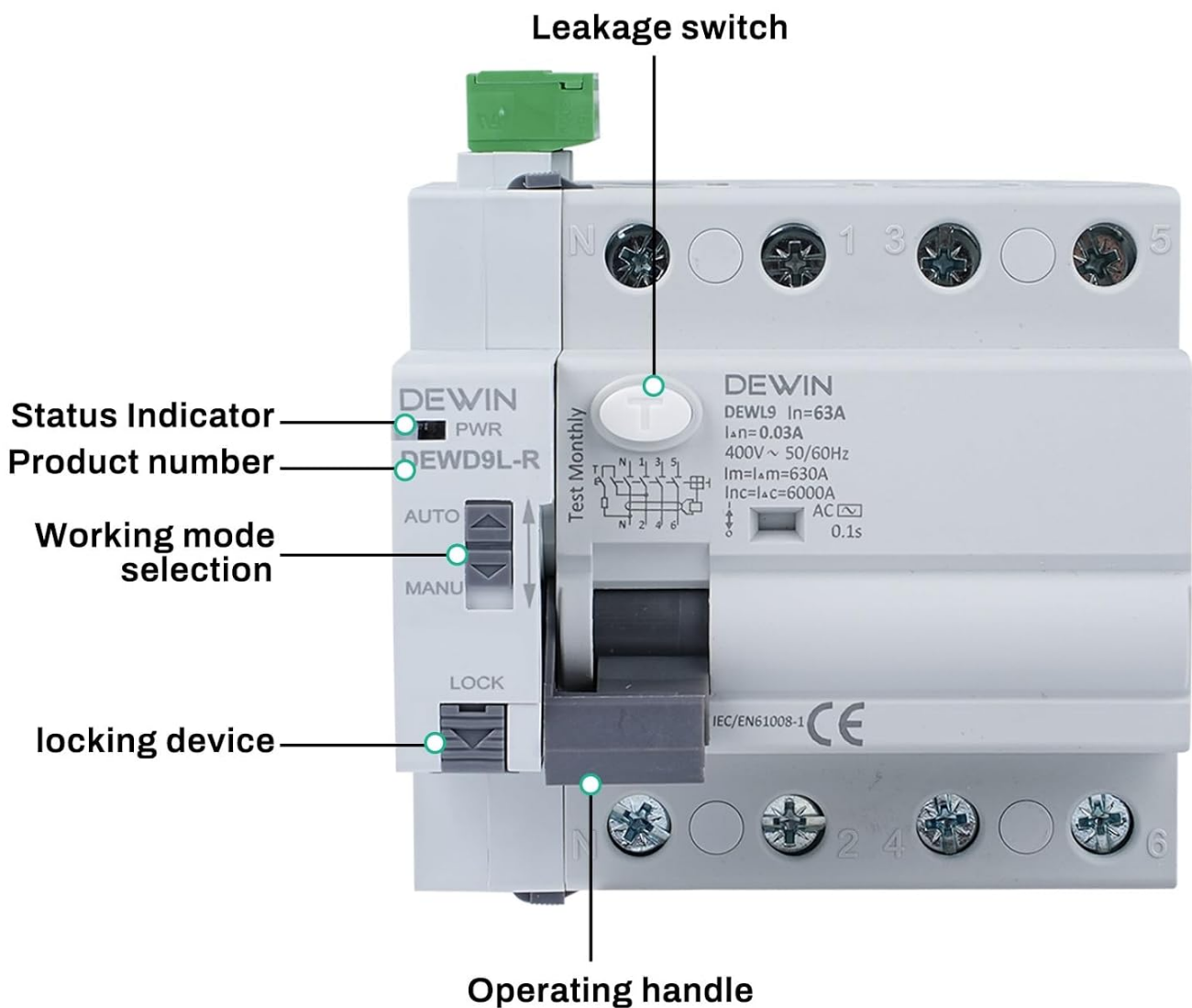


Figure 1: Panel Introduction

This image shows the front panel of the DEWIN Automatic Reclosing RCCB, highlighting key components such as the status indicator, product number (DEWD9L-R), working mode selection switch (AUTO/MANU), locking device, leakage switch, and operating handle.



Figure 2: Front View of the Circuit Breaker

A clear view of the DEWIN Automatic Reclosing RCCB, showing its overall design and terminal connections. It highlights the 35mm rail compatibility, 30mA leakage current, and 63A rated current.

4. Setup and Installation

Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations.

Mounting:

- The device is designed for 35mm DIN rail mounting.
- Ensure secure mounting within an appropriate electrical enclosure.

Wiring:

Connect the power line and load line according to the diagram below. Ensure all connections are tight and secure.

Power line



DEWD9L-R

load line

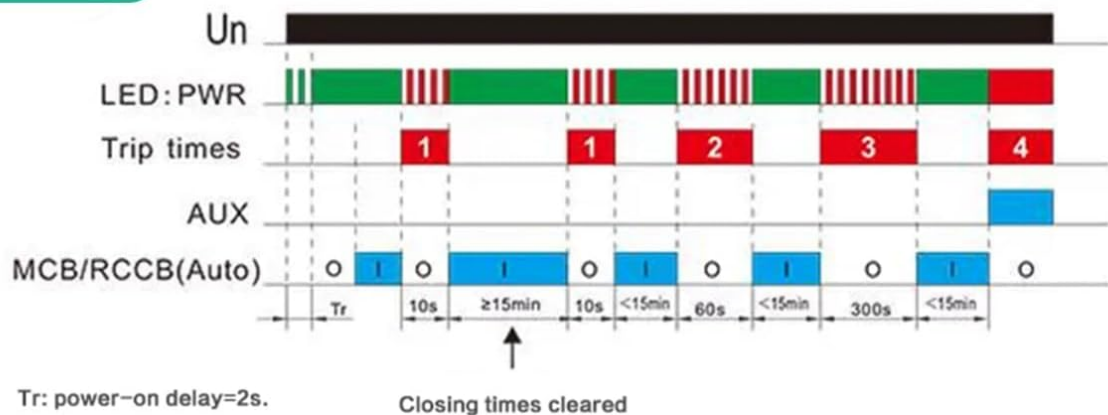


Figure 3: Wiring Diagram

This diagram illustrates the correct connection points for the power line (N, L, L, L) and the load line (N, L, L, L) on the DEWIN Automatic Reclosing RCCB. It also shows the timing sequence for power-on delay, trip times, and auxiliary contact warnings.

- Connect the incoming power supply to the terminals marked 'N' and '1, 3, 5' at the top.
- Connect the load to the terminals marked 'N' and '2, 4, 6' at the bottom.
- Ensure the correct phase sequence for 4P AC 400V systems.

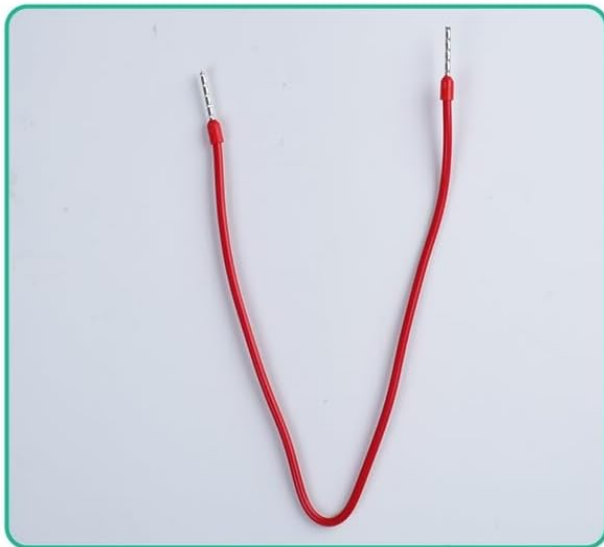


Figure 4: Connection Wires

This image displays the DEWIN Automatic Reclosing RCCB along with red and black connection wires, indicating the type of wiring typically used for installation.

5. Operating Instructions

Working Mode Selection:

The device features a switch for selecting between 'AUTO' and 'MANU' (Manual) modes.

- **AUTO Mode:** In this mode, the circuit breaker will automatically reclose after a trip, following a predefined sequence and timing.

- **MANU Mode:** In this mode, the circuit breaker requires manual intervention to reset after a trip.

Automatic Reclosing Sequence:

When in AUTO mode, the device attempts to reclose multiple times if a fault occurs. The timing diagram in Figure 3 illustrates this sequence:

- After a trip, there is a power-on delay (T_r) of 2 seconds.
- The device attempts to reclose. If the fault persists, it trips again.
- Subsequent reclosing attempts occur with increasing delays (e.g., 10s, 15min, 60s, 300s).
- If the fault clears, the closing times are reset. If the fault persists after multiple attempts (e.g., 3 times within 15 minutes), auxiliary contacts will signal a warning.

Status Indicators:

LED indicators provide visual feedback on the device's operational status.

- Refer to the panel introduction (Figure 1) for the location of the status indicator.
- Specific LED colors or patterns indicate power status, trip status, and reclosing attempts.

6. Maintenance

Monthly Test:

It is recommended to press the 'Test Monthly' button (refer to Figure 1) at least once a month to ensure the leakage protection function is operating correctly. If the device does not trip when the test button is pressed, it may be faulty and should be inspected by a qualified electrician.

General Care:

- Keep the device clean and free from dust and debris.
- Do not use abrasive cleaners or solvents.
- Regularly inspect for any signs of physical damage or loose connections.

7. Troubleshooting

Device Trips Repeatedly:

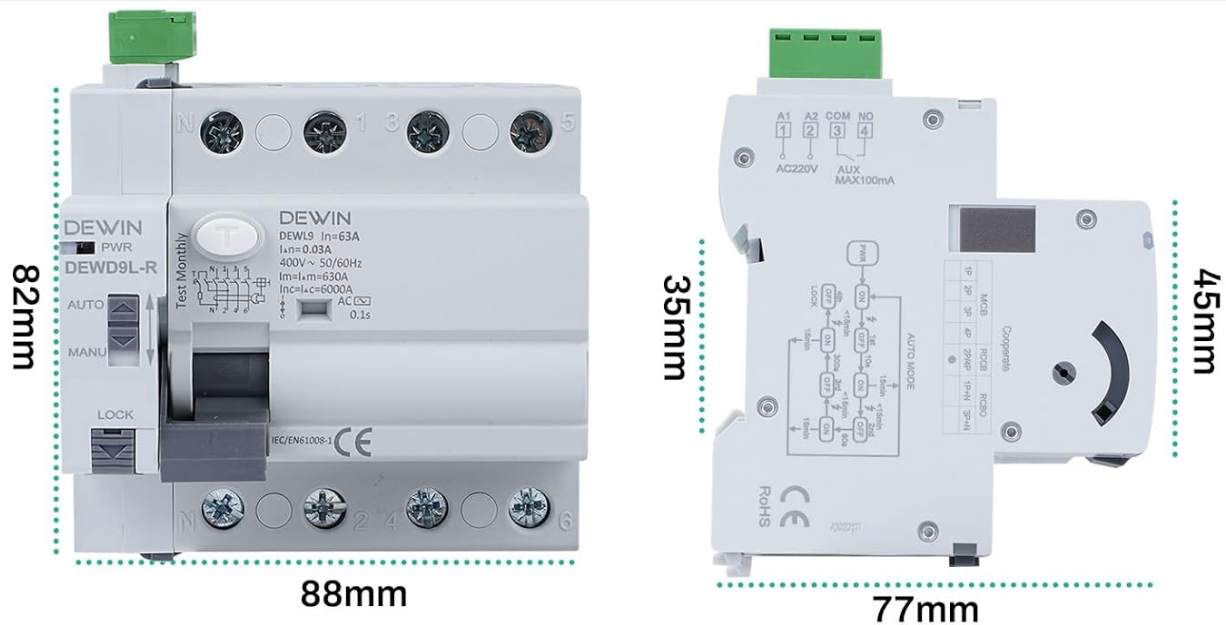
- If the device trips frequently, even after automatic reclosing attempts, it indicates a persistent fault in the electrical circuit.
- Do not attempt to continuously reset the device.
- Immediately disconnect power and have the electrical system inspected by a qualified electrician to identify and rectify the fault.

Device Does Not Reclose Automatically:

- Check if the working mode selection switch is set to 'AUTO'.
- Ensure there is auxiliary power (AC220V) connected to the A1/A2 terminals if required for the reclosing mechanism.
- If the issue persists, contact a qualified electrician for inspection.

8. Specifications

The following table details the technical specifications of the DEWIN Automatic Reclosing RCCB (Model: 4P 63A 30mA AC 400V).



Material:	PC+Copper	Power supply voltage tolerance:	-10%,+10%
Polar number:	4P	Provide instructions:	red light-emitting diode
Supplier terminal:	A1/A2	Action time:	≤ 1s
Rated voltage:	AC 400V	Automatic reclosing frequency:	3 times
Leakage current:	30mA	Automatic reclosing interval time:	10-60-300s
Rated current:	63A	Installation method:	35mm guide rail

Figure 5: Product Dimensions and Specifications

This image provides a visual representation of the DEWIN Automatic Reclosing RCCB's dimensions and a summary of its key technical specifications, including material, number of poles, rated voltage, leakage current, rated current, power supply voltage tolerance, instructions (red light-emitting diode), action time, automatic reclosing frequency, automatic reclosing interval time, and installation method.

Specification	Value
Brand	DEWIN
Model	4P 63A 30mA AC 400V
Rated Current	63 Ampere
Switch Type	RCD (Residual Current Device)
Mounting Type	DIN Rail (35mm)
Number of Poles	4

Specification	Value
Rated Voltage	AC 400V
Leakage Current	30mA
Item Weight	500 Grams
Country of Origin	China
Smart Home Compatibility	Compatible with smart home systems
Automatic Reclosing Frequency	3 times
Automatic Reclosing Interval Time	10-60-300 seconds

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.
Manufacturer: DEWIN

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