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DEWIN QYDBDYDCI-GS98744-03

DEWIN Automatic Reclosing Residual Current Circuit Breaker (RCCB) 2P AC 230V 30mA 63A Instruction Manual

1. Product Overview

The DEWIN Automatic Reclosing Residual Current Circuit Breaker (RCCB) is designed to provide enhanced electrical safety and operational continuity. This device automatically resets itself after an unexpected trip, eliminating the need for manual intervention. This functionality helps reduce maintenance costs, speeds up fault resolution, and improves overall system efficiency.

Key Features:

- **Automatic Reclosing:** Resets autonomously after a trip, with three reclosing attempts at intervals of 10s, 60s, and 300s.
- **Dual Functionality:** Features a manual/automatic selector with dual mechanical/electronic locking for flexible operation.
- **Stable Performance:** Utilizes a shaft-driven mechanism for enhanced stability and reliability.
- **Status Indication:** Operating status is clearly indicated by an LED display and a contact indication window.
- **Auxiliary Warning:** Continuous tripping faults within 15 minutes activate an auxiliary contact warning signal.

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 at the main circuit breaker before installing or servicing this device.
- Ensure proper grounding according to local electrical codes.
- Verify that the voltage and current ratings of the device match your electrical system requirements.
- Do not use this product in personal domestic photovoltaic (solar) systems.
- Avoid contact with live electrical components.
- Ensure all connections are tight and secure to prevent overheating.

3. Product Components and Identification

Familiarize yourself with the various parts of the DEWIN Automatic Reclosing RCCB for correct installation and

operation.



Figure 3.1: Labeled components of the DEWIN Automatic Reclosing RCCB. Key components include the Status Indicator, Product Number (DEWD9L-R), Working Mode Selection switch (AUTO/MANU), Locking Device, Operating Handle, and Leakage Switch.

4. Specifications

Detailed technical specifications for the DEWIN Automatic Reclosing RCCB.

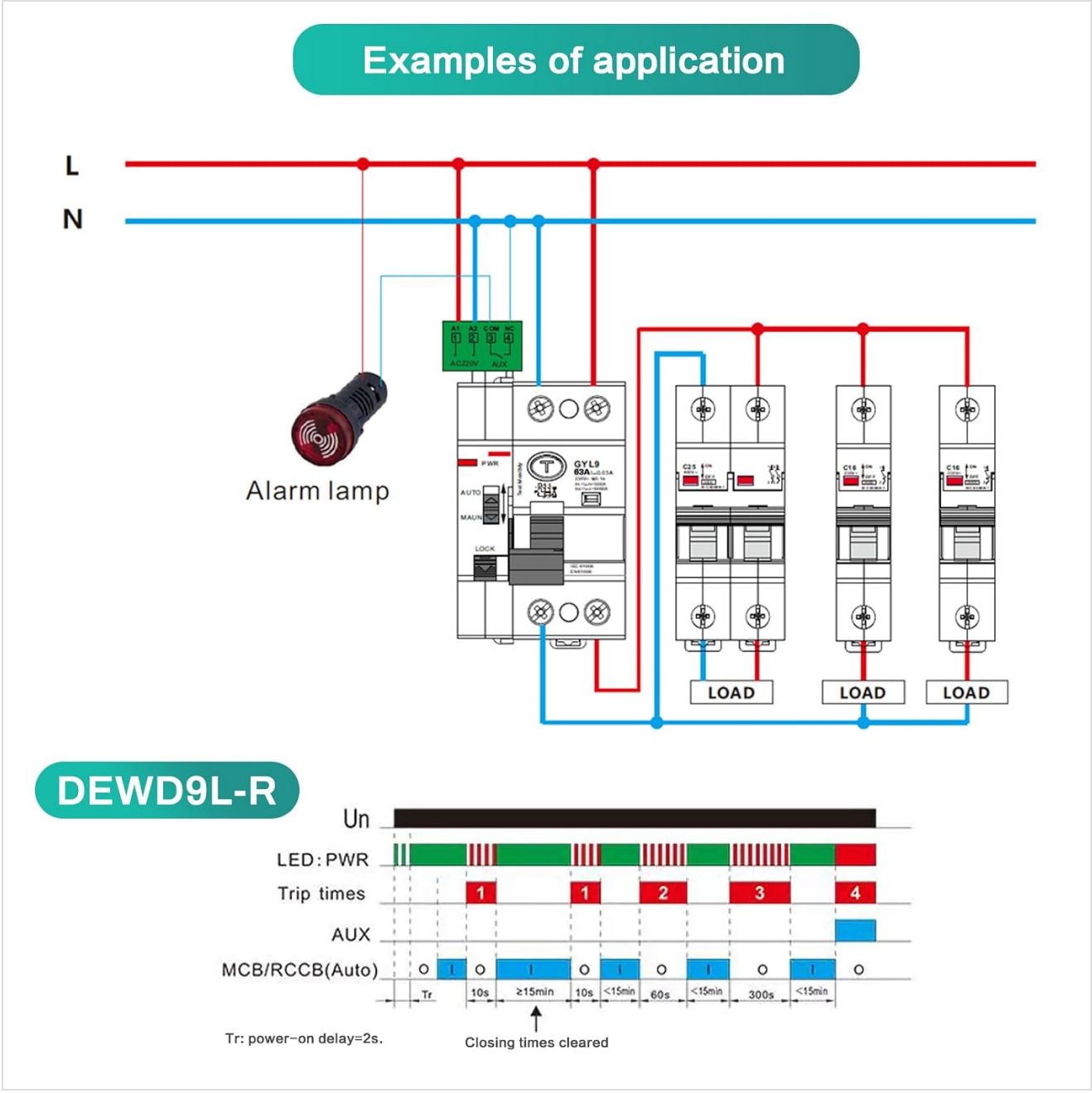


Figure 4.1: Product dimensions and key specifications.

Specification	Value
Material	PC+Copper
Number of Poles	2
Supplier Terminal	A1/A2
Rated Voltage	AC 220V (230V)
Rated Current	63 Ampere
Leakage Current	30mA
Switch Type	RCD
Mounting Type	35mm DIN Rail
Power Supply Voltage Tolerance	-10%, +10%

Power Indication	Red LED
Action Time	≤ 1s
Electrical Life	4000 times
Automatic Reclosing Attempts	3 times
Reclosing Interval	10s-60s-300s

5. Installation

The DEWIN Automatic Reclosing RCCB is designed for 35mm DIN rail mounting. Professional installation is highly recommended.

5.1 Wiring Diagram

Refer to the following diagram for typical wiring connections. Ensure all connections are made securely and according to local electrical standards.

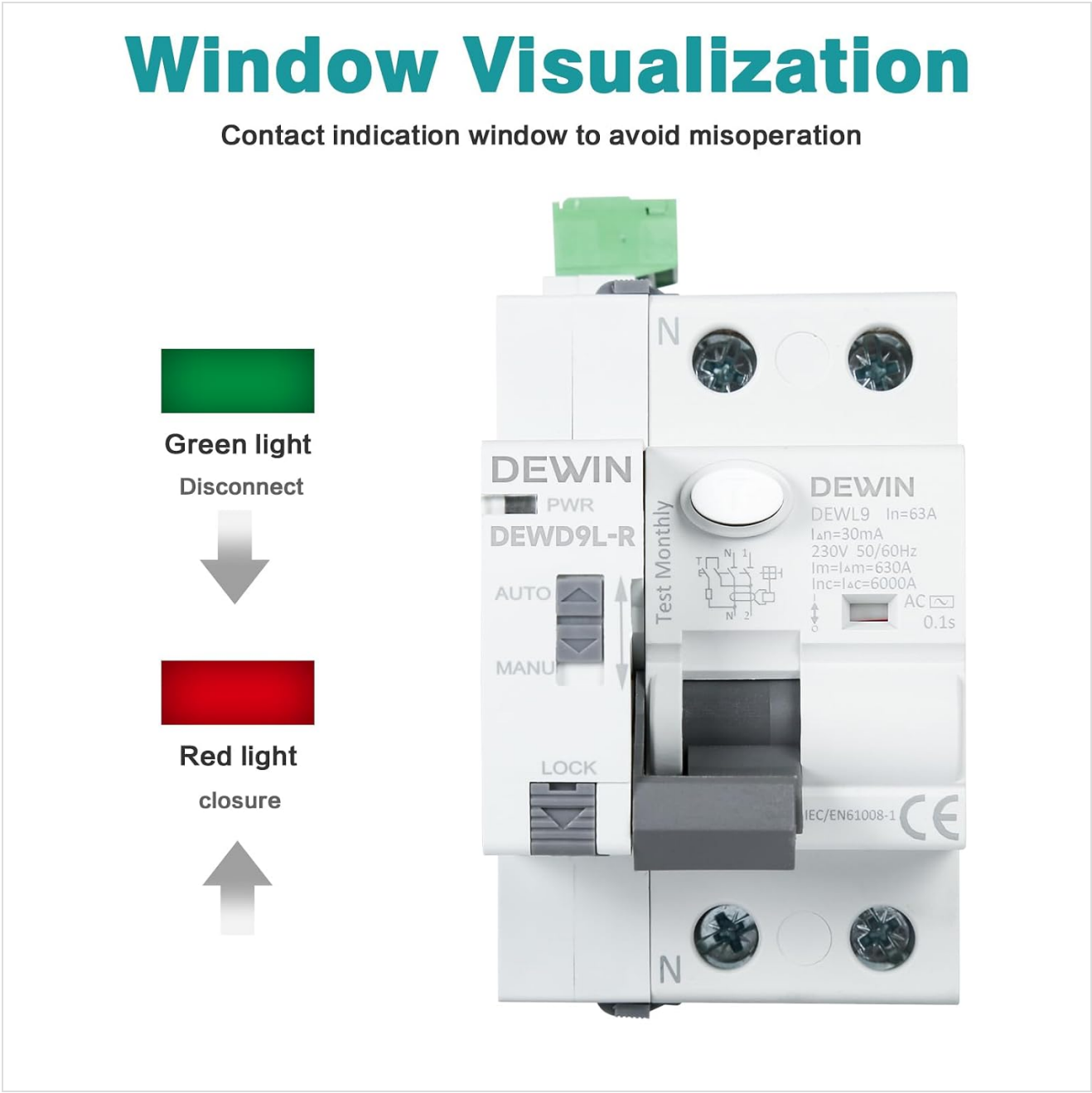


Figure 5.1: Example wiring diagram showing the connection of the RCCB to the main line (L, N), an alarm lamp, and multiple loads. The auxiliary contacts (A1, A2, COM, NO) are also shown.

5.2 Mounting

1. Ensure the main power supply is OFF.
2. Attach the device to a standard 35mm DIN rail by clipping it into place.
3. Connect the incoming live (L) and neutral (N) wires to the designated terminals.
4. Connect the outgoing live (L) and neutral (N) wires to the load.
5. If using the auxiliary contact, connect it as required (e.g., to an alarm system).
6. Double-check all connections for tightness and correctness before restoring power.

6. Operating Instructions

6.1 Working Mode Selection

The device features a selector switch for choosing between 'AUTO' and 'MANU' (Manual) modes. This switch has

dual mechanical and electronic locking mechanisms.

- **AUTO Mode:** In this mode, the device will automatically attempt to reclose after a trip.
- **MANU Mode:** In this mode, the device will not automatically reclose. Manual intervention is required to reset the breaker after a trip.

6.2 Automatic Reclosing Logic

When in AUTO mode, the device follows a specific reclosing sequence after a trip:

- **First Attempt:** After 10 seconds.
- **Second Attempt:** If the first attempt fails, after 60 seconds.
- **Third Attempt:** If the second attempt fails, after 300 seconds.

If all three attempts fail, the device will remain tripped and activate an auxiliary contact warning signal if continuous tripping occurs within 15 minutes. The reclosing times are reset if no trip occurs for 15 minutes.



Figure 6.1: Automatic reclosing sequence and timing diagram. Tr: power-on delay = 2s. Closing times are cleared after 15 minutes without a trip.

6.3 Status Indicators

The device provides visual feedback on its operational status:

- **LED Display:** Indicates the overall operating status.
- **Window Visualization:** A contact indication window shows the breaker's state to prevent misoperation.

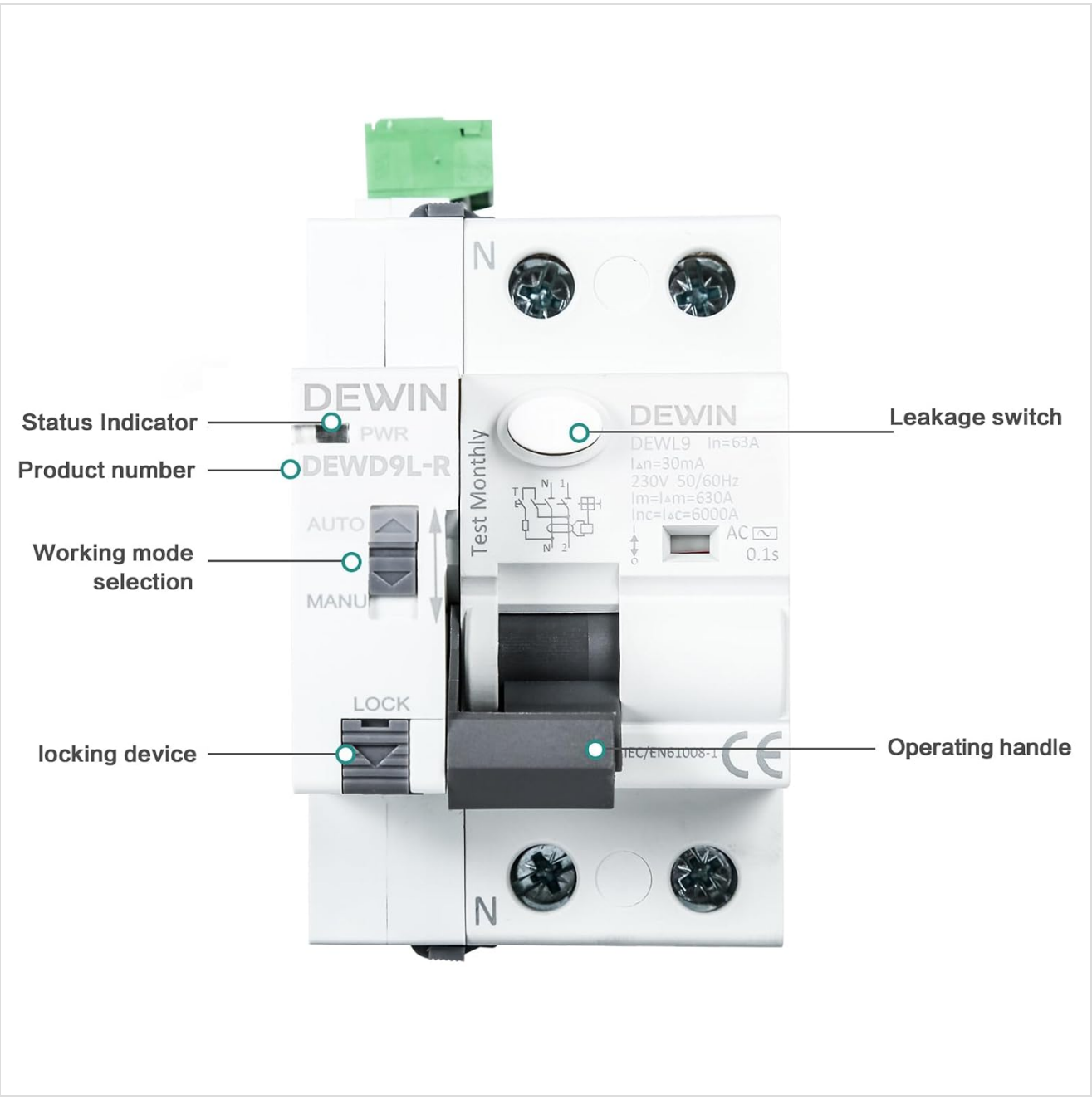


Figure 6.2: Window Visualization. A green light indicates the circuit is disconnected (open), while a red light indicates the circuit is closed (connected).

7. Maintenance

To ensure the continued proper functioning of your DEWIN Automatic Reclosing RCCB, regular testing is recommended.

- **Monthly Test:** Press the 'Test Monthly' button on the device to simulate a fault and verify that the RCCB trips correctly. The device should then attempt to reclose if in AUTO mode.
- If the device does not trip or reclose as expected during the monthly test, contact a qualified electrician for inspection and repair.

8. Troubleshooting

If you encounter issues with your DEWIN Automatic Reclosing RCCB, consider the following:

- **Device Not Reclosing:**
  - Check if the working mode selector is set to 'AUTO'.
  - Verify if the device has exhausted its three reclosing attempts. If so, a persistent fault may be present.
  - Ensure the power supply voltage is within the specified tolerance (-10% to +10% of AC 220V).
- **Continuous Tripping:** If the device trips continuously within a 15-minute period, it indicates a persistent fault in the circuit. The auxiliary contact warning signal will be activated. In such cases, switch the device to 'MANU' mode, manually reset it, and then investigate the cause of the fault in the connected circuit. Do not repeatedly force reclosing without addressing the underlying issue.
- **No Power Indication:** Check the main power supply to the device. Ensure connections are secure.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified electrician or the manufacturer's support.

9. Application Examples

The DEWIN Automatic Reclosing RCCB is suitable for a wide range of applications where continuous power supply and enhanced safety are critical. These include:

- Network terminal lines
- Unattended mobile base stations
- Elevators
- Air conditioning systems
- Smart homes
- Smart factories
- New energy vehicle charging points

Important Note: This product is NOT suitable for installation in personal domestic photovoltaic (solar) systems.



Figure 9.1: Examples of suitable applications for the DEWIN Automatic Reclosing RCCB.

10. Warranty and Support

For warranty information, technical support, or service inquiries, please contact the manufacturer directly or refer to the product packaging for specific details. Keep your purchase receipt as proof of purchase.

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