

CBLDF A9R52263

Electromagnetic Residual Current Circuit Breaker Action Switch (AC Type)

Model: A9R52263

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the CBLDF Electromagnetic Residual Current Circuit Breaker (RCCB) Action Switch, AC Type, 2P 63A 30mA, 230-240VAC 50/60Hz, Model A9R52263. Please read this manual thoroughly before installation and retain it for future reference.

SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance must be performed by qualified personnel only. Disconnect power before working on the circuit breaker or associated wiring.

- Always ensure the main power supply is disconnected before attempting any installation, wiring, or maintenance.
- Verify correct voltage and current ratings match the circuit breaker specifications.
- Do not operate the device if it appears damaged.
- Adhere to all local and national electrical codes and regulations.
- This device is designed for protection against earth leakage currents. It does not protect against overcurrent or short circuits.

PRODUCT OVERVIEW

The CBLDF A9R52263 is a 2-pole, 63A, 30mA AC type Residual Current Circuit Breaker designed to detect and interrupt earth leakage currents, providing protection against indirect contact and fire hazards due to insulation faults. It operates on 230-240VAC at 50/60Hz.



Figure 1: Front view of the CBLDF A9R52263 RCCB. This image displays the white plastic housing, the green 'O.OFF' indicator, the black toggle switch, and the screw terminals for electrical connections. The top and bottom terminals are clearly visible, marked with 'N' for neutral.



Figure 2: Detailed front view showing product specifications. This image provides a closer look at the markings on the circuit breaker, including the Schneider Electric logo, the 63A current rating, 30mA residual current sensitivity, and the 230-240V AC voltage rating, along with the test button.

Key Components:

- **Toggle Switch:** Used to manually turn the circuit breaker ON or OFF, and indicates tripped status.
- **Test Button (T):** Allows for periodic testing of the RCCB's functionality.
- **Terminals:** Screw terminals for connecting incoming and outgoing electrical wires.
- **DIN Rail Clip:** For easy mounting on a standard DIN rail.

SETUP AND INSTALLATION

Installation should only be carried out by a qualified electrician in accordance with relevant wiring regulations.

1. **Power Disconnection:** Ensure the main power supply to the installation is completely disconnected and locked out before beginning any work. Verify with a voltage tester.

2. **Mounting:** Mount the RCCB onto a standard 35mm DIN rail within an appropriate enclosure. Ensure it is securely clipped into place.



Figure 3: Top view illustrating DIN rail clips. This image shows the top of the circuit breaker, highlighting the yellow clips used for securing the device onto a DIN rail, indicating its ease of installation in electrical panels.

3. **Wiring:**

- Connect the incoming live and neutral wires to the top terminals of the RCCB.
- Connect the outgoing live and neutral wires to the bottom terminals of the RCCB.
- Ensure all connections are tight and secure to prevent loose contacts and overheating. Use appropriate wire gauges for the 63A rating.



Figure 4: Angled view showing wiring terminals. This image provides a perspective of the circuit breaker from an angle, clearly displaying the screw terminals at both the top and bottom for connecting the electrical conductors.

4. **Verification:** Double-check all wiring connections for correctness and tightness.
5. **Enclosure Closure:** Close the electrical enclosure securely.
6. **Power Restoration:** Restore power to the installation.

OPERATING INSTRUCTIONS

- **Turning ON:** Push the toggle switch upwards to the 'I.ON' position.
- **Turning OFF:** Push the toggle switch downwards to the 'O.OFF' position.
- **Tripped State:** If an earth leakage fault occurs, the RCCB will automatically trip, and the toggle switch will move to an intermediate or 'OFF' position.
- **Resetting After Trip:**
 - a. Identify and rectify the cause of the earth leakage fault.
 - b. Push the toggle switch fully down to the 'O.OFF' position.

- c. Push the toggle switch upwards to the 'I.ON' position to restore power. If it trips again immediately, the fault persists.
- **Test Function:** Press the 'T' (Test) button periodically (e.g., monthly) to verify the mechanical and electrical operation of the RCCB. The device should trip immediately. If it does not trip, the RCCB may be faulty and requires replacement. Reset the RCCB after testing.

MAINTENANCE

The CBLDF RCCB is designed for minimal maintenance. However, regular checks are recommended:

- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, discoloration, or loose connections.
- **Test Button Operation:** Perform the test button operation monthly as described in the "Operating Instructions" section.
- **Cleaning:** If necessary, gently clean the exterior of the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Professional Inspection:** It is advisable to have a qualified electrician inspect your electrical installation, including protective devices, at regular intervals.

TROUBLESHOOTING

Problem	Possible Cause	Solution
RCCB trips frequently.	Earth leakage fault in the circuit. Faulty appliance connected to the circuit. Damaged wiring. Overloaded circuit (though RCCB primarily for leakage, not overload).	Unplug all appliances from the circuit and reset. Plug in one by one to identify faulty appliance. Inspect wiring for damage. Consult a qualified electrician to diagnose and repair the earth leakage.
RCCB does not trip when test button is pressed.	Faulty RCCB. No power to the RCCB.	Ensure power is supplied to the RCCB. Replace the RCCB immediately.
RCCB cannot be reset.	Persistent earth leakage fault. Internal damage to the RCCB.	Ensure the toggle switch is pushed fully down before attempting to reset. Consult a qualified electrician to identify and rectify the fault. If no fault is found, the RCCB may need replacement.

SPECIFICATIONS

Feature	Specification
Model Number	A9R52263
Type	AC Type Residual Current Circuit Breaker (RCCB)
Poles	2P

Feature	Specification
Rated Current	63A
Rated Residual Operating Current	30mA
Rated Voltage	230-240VAC
Frequency	50/60Hz
Mounting	35mm DIN Rail
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	7.05 ounces
Manufacturer	CBLDF

WARRANTY AND SUPPORT

Information regarding specific warranty terms and customer support contact details for this product is not provided in the available documentation. Please refer to the product packaging or the point of purchase for warranty information and support contacts.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

