BTB ELECTRIC

INSTRUCTIONS FOR USING

Residual Current Circuit Breaker

MR63 MR100 Series

RCCB manufactured according to IEC61008-1 standard



⚠ Be sure to read the manual and follow all safety precautions before using the product.

⚠ This manual should be given to the person who will actually use the product and be responsible for its maintenance.

1. Key Features

- Rated Voltage: 240/415V
- Rated Current: 16, 25, 32, 40, 50, 63, 80, 100A
- Residual Current Rating: 30mA
- Breaking Capacity: Dependent on model, typically up to 6kA
- Type: AC, A
- Applications: Residential, commercial, industrial

2. Installation

1 Preparation:

- Ensure the power supply is disconnected before installation.
- Verify the RCCB rating matches the circuit requirements (voltage, current, and residual current sensitivity).

2 Mounting:

- Mount the RCCB on a standard DIN rail in the distribution board.
- Ensure the RCCB is securely fixed and aligned with other devices..

3 Wiring:

- Connect the incoming (supply) phase and neutral wires to the terminals marked as input (L and N) on the RCCB.
- Connect the outgoing (load) phase and neutral wires to the terminals marked as output.
- Tighten the terminal screws securely to ensure proper contact.

3. Operation

1 Switching On:

- Push the toggle lever to the "ON" position to energize the circuit.

2 Switching Off:

- Push the toggle lever to the "OFF" position to isolate the circuit.

3 Tripping:

- The RCCB will automatically trip when a residual current fault (leakage) is detected.
- Identify and resolve the cause of the leakage before resetting the RCCB.

4 Resetting the RCCB:

- After resolving the fault, toggle the lever to the "OFF" position, then back to "ON" to restore power.

4. Safety Guidelines

- Always disconnect the power supply before working on the RCCB or its connected circuit.
- Use the RCCB only within its specified voltage, current, and residual current limits.
- Avoid exposure to extreme moisture, dust, or corrosive environments.
- Do not tamper with or bypass the RCCB's safety features.

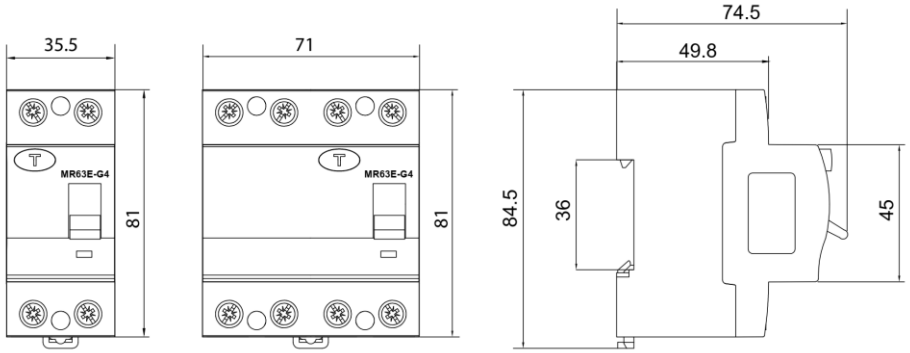
5. Troubleshooting

Issue	Possible Cause	Solution
RCCB does not power on	Loose or incorrect wiring	Check and tighten connections
Frequent tripping	Faulty appliance or leakage	Disconnect appliances and test
RCCB trips without load	Damaged wiring or leakage	Inspect and repair the circuit
Lever stuck	Internal damage	Replace the RCCB

6. Maintenance

- Periodically inspect the RCCB for signs of overheating, wear, or damage.
- Test the RCCB regularly using the test button to ensure proper operation.
- Clean the RCCB and the distribution board area to prevent dust accumulation.

7. Dimension



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