



INSTRUCTIONS FOR USING Arc Fault Detection Device AFDD

MD63E
MD63S
Series

AFDD manufactured according to IEC61009-1
& IEC62606 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: 180V ~ 264V
- Rated Current: 10, 16, 20, 25, 32, 40A
- Residual Current Rating: 30mA
- Breaking Capacity: 6kA or 10kA
- Type: B, C curve
- Arc Fault Detection: Series and Parallel arcs
- Trip Types: Arc fault, overload, short-circuit, earth leakage and over voltage
- Applications: Residential, commercial, industrial

2. Installation

1 Preparation:

- Ensure the main power supply is disconnected before installation.
- Verify that the AFDD rating matches the circuit parameters (voltage, current, and fault protection type).

- Check the wiring diagram provided on the device label

2 Mounting:

- Install the AFDD on a standard DIN rail inside the distribution board.
- Make sure the device is securely locked and properly aligned.

3 Wiring:

- Connect the incoming (supply) wires to the upper terminals of the AFDD.
- Connect the outgoing (load) wires to the lower terminals.
- For devices with neutral protection, connect the neutral conductor to the designated terminal.
- Tighten all terminals firmly to ensure reliable contact.

3. Operation

1 Switching On:

- Move the toggle lever to the "ON" position to supply power to the circuit
- 2 Switching Off:
- Move the toggle lever to the "OFF" position to isolate the circuit.
- 3 Tripping:
- The AFDD will automatically trip when an arc fault, overload, short-circuit, or leakage current is detected.
 - Identify and eliminate the cause of the fault before resetting the device.

4. Safety Guidelines

- Always disconnect power before installation, wiring, or maintenance.
- Use the AFDD only within its rated specifications.
- Do not install the device in areas exposed to moisture, excessive dust, or vibration.
- Never attempt to open, modify, or repair the AFDD internally.
- Replace the device immediately if signs of overheating or damage appear..

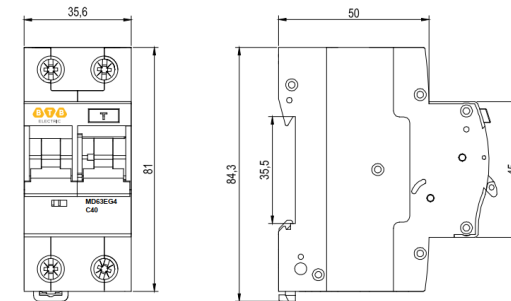
5. Troubleshooting

Issue	Possible Cause	Solution
AFDD does not power on	Loose or incorrect wiring	Check and tighten connections
Frequent tripping	Overload, short circuit, or arc fault present	Inspect load and wiring for damage
Trips without load	Faulty appliance or wiring insulation issue	Disconnect appliances, test circuit
Test button not working	Internal damage	Replace the device

6. Maintenance

- Inspect the device periodically for signs of overheating, discoloration, or damage.
- Clean dust from the device and distribution board regularly.
- Test the tripping function periodically to ensure reliable performance.
- Replace the AFDD after reaching its service life or if any abnormal behavior is observed.

7. Dimension



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