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› SEAFRONT DZ47LE-32 2P+N C32 RCCB Miniature Circuit Breaker User Manual

SEAFRONT DZ47LE-32

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Model: DZ47LE-32 | Brand: SEAFRONT

1. PRODUCT OVERVIEW

The SEAFRONT DZ47LE-32 Residual Current Circuit Breaker (RCCB) is an essential electrical safety device designed to protect against electric shock, electrical leakage, overload, and short-circuit conditions. This miniature circuit breaker automatically operates when the leakage current in the circuit exceeds 30mA, ensuring the safety of individuals and electrical appliances.

Key Features:

- Automatic operation upon leakage current exceeding 30mA.
- Provides comprehensive protection against electrical leakage, overload, and short-circuits.
- Compact size for efficient space utilization.
- Suitable for various applications including home decoration, engineering projects, and rural network transformations.

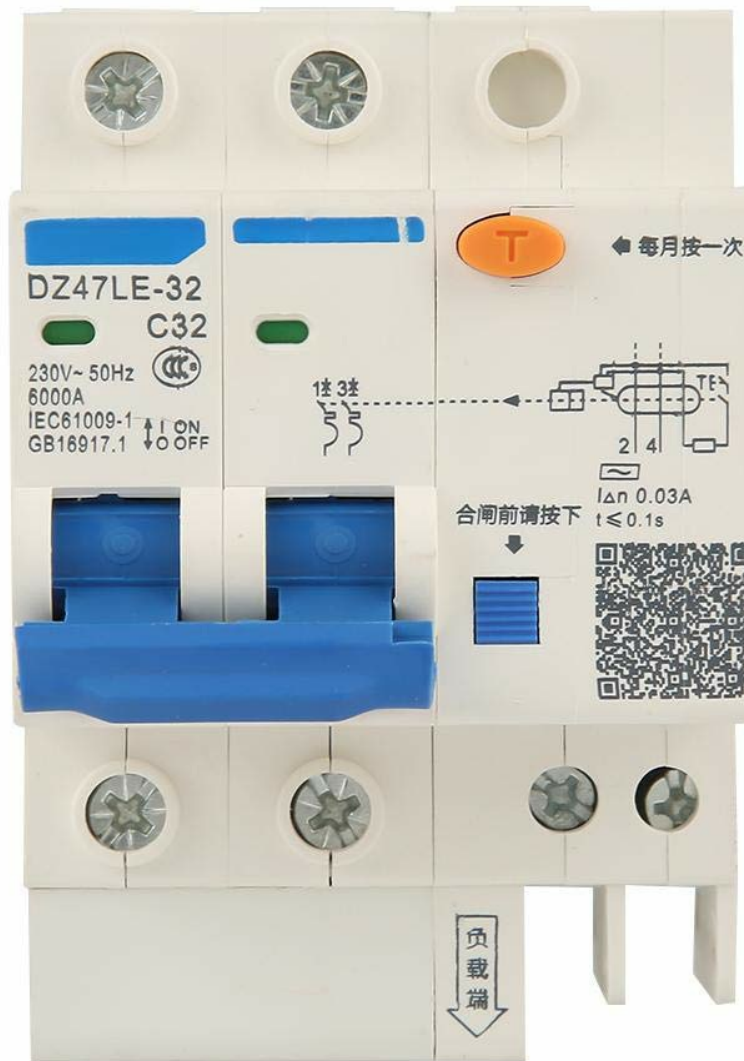


Figure 1: Front view of the SEAFRONT DZ47LE-32 RCCB, showing the main switch, test button, and technical labels.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Qualified Personnel Only:** Installation and maintenance should only be performed by qualified electricians in accordance with local electrical codes and regulations.
- **Power Disconnection:** Always ensure that the main power supply is disconnected before performing any installation, wiring, or maintenance on the circuit breaker.
- **Proper Wiring:** Use appropriate wire gauges and ensure all connections are secure and tightened to the specified torque to prevent overheating and loose connections.
- **Environmental Conditions:** Do not install the device in environments with excessive moisture, dust, corrosive gases, or extreme temperatures.
- **Regular Testing:** Perform the monthly test function as described in the operating instructions to ensure proper device functionality.
- **Do Not Tamper:** Do not attempt to open, modify, or repair the circuit breaker. Refer servicing to qualified personnel.

3. SPECIFICATIONS

The following table details the technical specifications of the SEAFRONT DZ47LE-32 RCCB:

Specification	Value
Model	DZ47LE-32 2P + N C32
Breaking Capacity	4kA
Poles	2P + N
Rated Current	32A
Rated Voltage	230V
Leakage Action Current	30mA
Leakage Action Time	0.1S
Overvoltage Protection	230V
Wiring Capacity	10mm ²
Rated Impulse Voltage	230/400V
Protection Type	Leakage, Overload, Short-circuit
3C Rated Voltage Range	AC 1500V and below
Dimensions (L x W x H)	6 x 6.2 x 9.3 cm
Weight	Approx. 259g
Manufacturer	SEAFRONT
Country of Origin	China
UPC	703633984739

4. INSTALLATION GUIDE

This section provides instructions for the safe and correct installation of the DZ47LE-32 RCCB. Ensure all safety precautions in Section 2 are followed.

4.1 Mounting

The DZ47LE-32 RCCB is designed for DIN rail mounting.

1. Ensure the DIN rail is securely installed within the electrical panel or enclosure.
2. Align the circuit breaker's mounting clips with the DIN rail.
3. Press the circuit breaker firmly onto the DIN rail until it clicks into place. Verify it is securely fastened and does not wobble.



Figure 2: Back view of the RCCB, illustrating the integrated clips for DIN rail mounting.

4.2 Wiring

Refer to the wiring diagram on the device and ensure correct polarity and connections.

1. **Disconnect Power:** Before starting, ensure the main power supply to the circuit is completely disconnected.
2. **Identify Terminals:** The device has input terminals at the top and output terminals at the bottom. The labels on the device indicate the Live (L) and Neutral (N) connections.
3. **Connect Input Wires:** Connect the incoming Live and Neutral wires to the corresponding top terminals. Ensure the wires are stripped to the correct length and inserted fully into the terminals.
4. **Connect Output Wires:** Connect the outgoing Live and Neutral wires to the corresponding bottom terminals. These wires will lead to the load circuit.
5. **Tighten Screws:** Use a suitable screwdriver to securely tighten all terminal screws. Do not overtighten, but ensure connections are firm to prevent arcing or overheating.
6. **Verify Connections:** Double-check all wiring for correctness and security before restoring power.



Figure 3: Side view showing the terminal screws for secure wire connections.



Figure 4: Top view illustrating the input terminals where incoming power wires are connected.

5. OPERATING INSTRUCTIONS

Once installed and wired correctly, the DZ47LE-32 RCCB is ready for operation.

5.1 Switching On/Off

- **To Switch On:** Push the main blue lever upwards to the 'ON' position. The green indicator will be visible.
- **To Switch Off:** Push the main blue lever downwards to the 'OFF' position. The red indicator will be visible.
- **Trip Indication:** If the device trips due to a fault (leakage, overload, or short-circuit), the lever will move to an intermediate position. To reset, first push the lever fully down to 'OFF', then push it up to 'ON'.

5.2 Test Function

The RCCB includes a test button to verify its functionality. This test should be performed monthly.

1. Ensure the circuit breaker is in the 'ON' position and power is supplied to the circuit.
2. Press the orange 'T' (Test) button located on the front of the device.
3. The circuit breaker should immediately trip, moving the lever to the 'OFF' or intermediate position, and

cutting power to the protected circuit.

4. If the device does not trip, it may be faulty and should be inspected or replaced by a qualified electrician.
5. To restore power, reset the circuit breaker by pushing the lever fully down to 'OFF', then up to 'ON'.



Figure 5: Angled view showing the orange 'T' test button, which should be pressed monthly to verify device functionality.

6. MAINTENANCE

The SEAFRONT DZ47LE-32 RCCB requires minimal maintenance, primarily consisting of regular functional checks.

- **Monthly Test:** As described in Section 5.2, press the 'T' (Test) button monthly to ensure the residual current protection mechanism is functioning correctly.
- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, discoloration, or loose connections. Any abnormalities should be addressed by a qualified electrician.
- **Cleaning:** If necessary, gently wipe the exterior of the device with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.

7. TROUBLESHOOTING

If the DZ47LE-32 RCCB trips unexpectedly or fails to operate, consider the following common issues:

- **Frequent Tripping:**

- **Leakage Fault:** A leakage current may be present in the circuit or connected appliances. Disconnect appliances one by one to identify the faulty device.
- **Overload:** The total current drawn by connected devices exceeds the RCCB's rated current (32A). Reduce the load or redistribute it across different circuits.
- **Short-Circuit:** A direct short-circuit between live and neutral wires. This requires immediate investigation by a qualified electrician.

- **RCCB Does Not Trip During Test:** If pressing the 'T' button does not trip the device, the RCCB may be faulty. It should be replaced immediately by a qualified electrician.
- **Power Does Not Restore After Tripping:** Ensure the lever is pushed fully down to 'OFF' before attempting to push it up to 'ON'. If it still does not reset, there might be a persistent fault in the circuit or the device itself.
- **Loose Connections:** Check all wiring connections for tightness. Loose connections can cause intermittent tripping or overheating.

For persistent issues or if you are unsure about troubleshooting steps, always consult a qualified electrician.

8. WARRANTY AND SUPPORT

Information regarding specific warranty terms and customer support for the SEAFRONT DZ47LE-32 RCCB is typically provided at the point of purchase or within the product packaging. Please refer to your purchase documentation or contact the retailer/manufacturer directly for details on warranty coverage, technical assistance, and replacement parts.

For any technical inquiries or support, it is recommended to have your product model number (DZ47LE-32) and purchase details readily available.