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LiebeWH DZ47-125 2P Miniature Circuit Breaker User Manual

Brand: LiebeWH | **Model:** DZ47-125 2P (C125A Variant)

1. Product Overview

The LiebeWH DZ47-125 2P Miniature Circuit Breaker is an essential electrical device designed for low-voltage distribution and power systems. It integrates control and protection functions, ensuring the safety and stability of your electrical circuits.

Key features include:

- **Comprehensive Protection:** Provides leakage, overload, and short circuit protection.
- **High Quality Components:** Constructed from high-quality electronic components for stable and reliable performance.
- **Fast Response:** Features a rapid response speed with a leakage action time of only 0.1 second.
- **Flame Retardant Casing:** The outer casing is made from flame retardant material for enhanced safety.



Figure 1: Overall view of the LiebeWH DZ47-125 2P Miniature Circuit Breaker.

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.

- **Professional Installation:** Installation should only be performed by a qualified electrician in accordance with local electrical codes and regulations.
- **Power Disconnection:** Always ensure the main power supply is disconnected before performing any installation, wiring, or maintenance.
- **Voltage and Current Ratings:** Do not exceed the rated voltage (400V) or current (80A, 100A, or 125A depending on model) of the circuit breaker.
- **Environmental Conditions:** Do not install in environments with excessive moisture, dust, or corrosive gases.
- **Flame Retardant:** While the casing is flame retardant, proper wiring and installation are crucial to prevent overheating and fire hazards.

3. Components

The DZ47-125 2P Miniature Circuit Breaker consists of the following main components:

- **Toggle Switch:** Used to manually turn the circuit breaker ON or OFF, and indicates the tripped state.
- **Terminals:** Screw terminals for connecting input and output wires.
- **Model and Rating Labels:** Clearly marked with model number (DZ47-125), current rating (e.g., C125A), voltage, and breaking capacity.
- **DIN Rail Clip:** For easy mounting onto a standard DIN rail (located on the back).



Figure 2: Front view showing the toggle switch and product labels.



Figure 3: Angled view highlighting the wiring terminals.

4. Setup and Installation

Installation must be performed by a qualified professional. Ensure all power is disconnected before proceeding.

1. **Mounting:** Securely mount the circuit breaker onto a standard DIN rail within an appropriate electrical enclosure.
2. **Wiring:** Connect the incoming power supply to the upper terminals and the outgoing load wires to the lower terminals. This model supports front wiring. Ensure all connections are tight and secure to prevent loose contacts and overheating.
3. **Polarity:** Observe correct polarity for DC applications if applicable, though this model is primarily for AC 400V.
4. **Verification:** After wiring, double-check all connections for correctness and tightness.



Figure 4: Back view with DIN rail clip and removal instructions.

5. Operating Instructions

The circuit breaker is designed for simple operation:

- **To Turn ON:** Push the toggle switch upwards to the 'ON' position.
- **To Turn OFF:** Push the toggle switch downwards to the 'OFF' position.
- **Tripped State:** If an overload, short circuit, or leakage occurs, the toggle switch will automatically move to an intermediate or 'OFF' position, indicating a trip.
- **Resetting After a Trip:** Before resetting, identify and rectify the cause of the trip. Once the fault is cleared, push the toggle switch fully down to the 'OFF' position, then push it upwards to the 'ON' position to restore power.

6. Maintenance

The DZ47-125 2P Miniature Circuit Breaker requires minimal maintenance. Regular inspections are recommended to

ensure optimal performance and safety.

- **Visual Inspection:** Periodically check the circuit breaker for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** Ensure the area around the circuit breaker is clean and free from dust and debris. Use a dry, soft cloth for cleaning; do not use liquids.
- **No User Serviceable Parts:** Do not attempt to open or repair the circuit breaker. If it is damaged or malfunctioning, it should be replaced by a qualified professional.

7. Troubleshooting

If you encounter issues with your circuit breaker, consider the following:

- **Breaker Trips Frequently:** This indicates an underlying electrical issue such as an overload, short circuit, or ground fault (leakage). Do not repeatedly reset the breaker without investigating the cause.
- **No Power After Reset:** If the breaker trips immediately after being reset, a severe fault likely persists. Disconnect all loads and try resetting again. If it still trips, consult a qualified electrician.
- **Breaker Does Not Trip:** If a fault is suspected but the breaker does not trip, it may be faulty. Immediately disconnect power and have it inspected by a professional.

For any persistent or complex electrical issues, always consult a certified electrician.

8. Specifications

Specification	Value
Model	DZ47-125 2P
Breaking Capacity	7.5KA
Number of Poles	2P
Trip Unit Rated Current (Optional)	80A; 100A; 125A
Rated Voltage	400V
Leakage Current	30mA
Leakage Action Time	≤ 0.1S
Material	Copper-based alloy
Tripping Method	Overcurrent release type
Protection Types	Leakage, Overload, Short Circuit
Application Scenario	Terminal power distribution
Wiring Method	Front wiring
Structure Type	Plastic case circuit breaker
Arc Extinguishing Medium	Air type
Parcel Dimensions	8 x 7 x 6 cm; 308 g

Specification	Value
Country of Origin	China

Note: Product appearance may vary slightly between new and old production batches, but functionality remains consistent. (Refer to image below for visual comparison).



Figure 5: Comparison of new and old models (shipped randomly).

9. Warranty and Support

For warranty information, technical support, or further inquiries, please contact your retailer or visit the official LiebeWH store.

LiebeWH Store: Visit the LiebeWH Store on Amazon

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