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› LDGSUPH E9 Circuit Breaker with Leakage Protector User Manual

LDGSUPH E9

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Model: E9

1. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installing or operating this circuit breaker. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Work:** All electrical work must be performed by a qualified electrician in accordance with local and national electrical codes.
- **Power Disconnection:** Always disconnect power at the main service panel before working on electrical circuits. Verify that power is off using a voltage tester.
- **Proper Rating:** Ensure the circuit breaker's current and voltage ratings match the requirements of your electrical system.
- **Environmental Conditions:** Do not install in wet or excessively humid environments unless the product is specifically rated for such conditions.
- **Grounding:** Ensure proper grounding is maintained throughout the installation.

2. PRODUCT OVERVIEW

The LDGSUPH E9 Circuit Breaker with Leakage Protector is designed to provide essential electrical safety by protecting circuits from overload, short circuits, and earth leakage faults. It features robust construction for durability and reliable performance.



Figure 2.1: LDGSUPH E9 Circuit Breaker, illustrating its compact design and key protection features including overload, short circuit, and leakage protection.

Key Features:

- **Overload Protection:** Trips instantly when a severe overload occurs, preventing electrical damage.
- **Short Circuit Protection:** Cuts off fault current during a short circuit to avoid fire risks.
- **Leakage Protection:** Detects earth leakage faults, enhancing personal safety.
- **High Conductivity:** Ensures efficient power transmission.
- **Flame Retardant:** Constructed with materials offering good flame retardancy and impact resistance.
- **Easy Installation:** Features a secure buckle design for quick and straightforward mounting.

3. SETUP AND INSTALLATION

Proper installation is critical for the safe and effective operation of the E9 Circuit Breaker. Refer to the wiring diagram and follow all safety precautions.

Installation Steps:

1. **Power Disconnection:** Ensure the main power supply to the electrical panel is completely disconnected.
2. **Mounting:** Securely attach the circuit breaker to the DIN rail within the electrical panel using its integrated secure buckle mechanism.
3. **Wiring:** Connect the incoming power lines (Zero line and Fire line) to the designated terminals on the circuit breaker. Connect the outgoing load lines to the appropriate terminals. Ensure all connections are tight and secure. Refer to the wiring diagram below.
4. **Verification:** Double-check all wiring connections for correctness and tightness.
5. **Restore Power:** Once installation is complete and verified, carefully restore power to the main service panel.

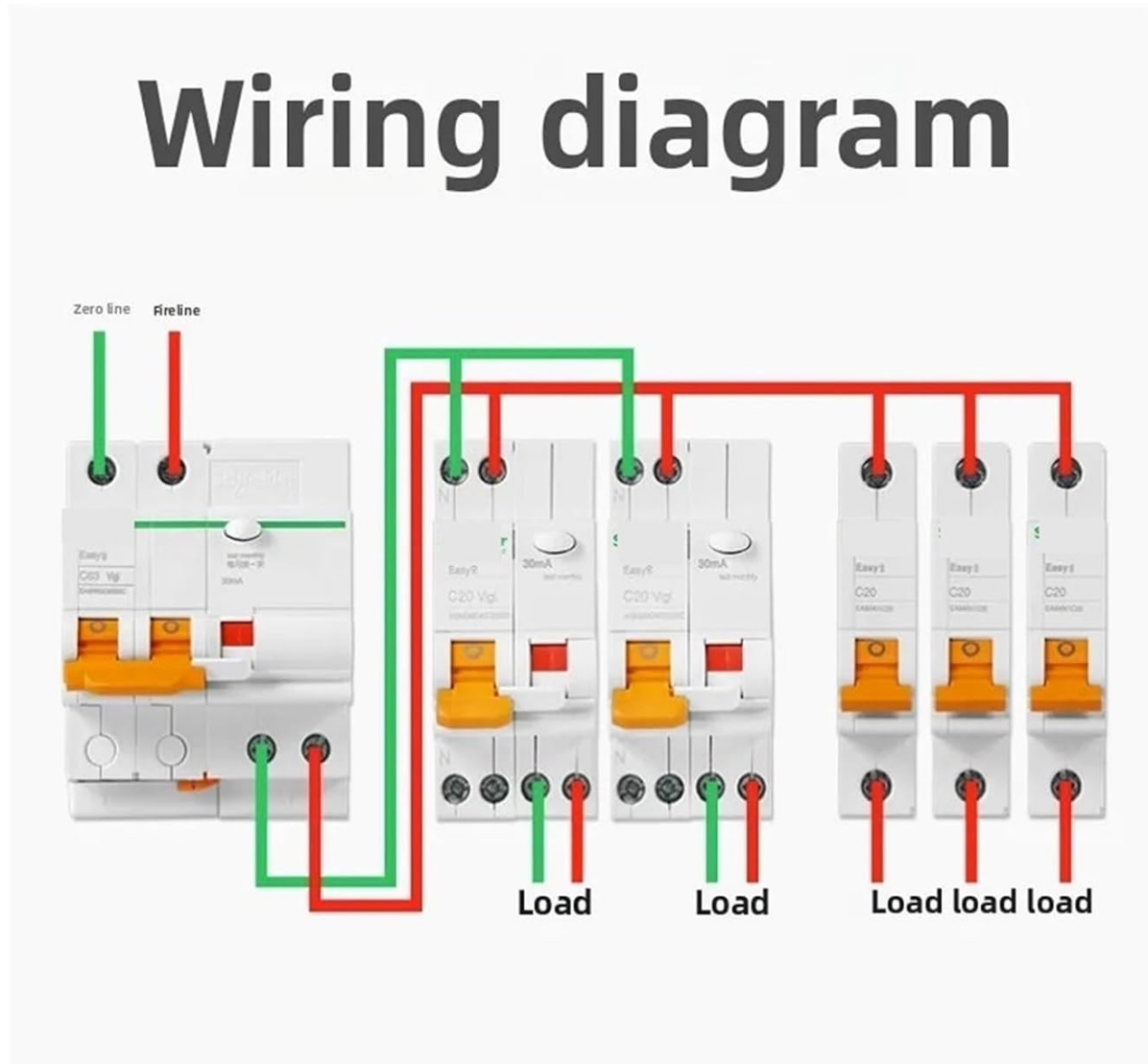


Figure 3.1: Wiring diagram for the LDGSUPH E9 Circuit Breaker, showing connections for zero line, fire line, and multiple load circuits.

4. OPERATING INSTRUCTIONS

The E9 Circuit Breaker is designed for straightforward operation. Familiarize yourself with its components for safe use.

Empty external construction

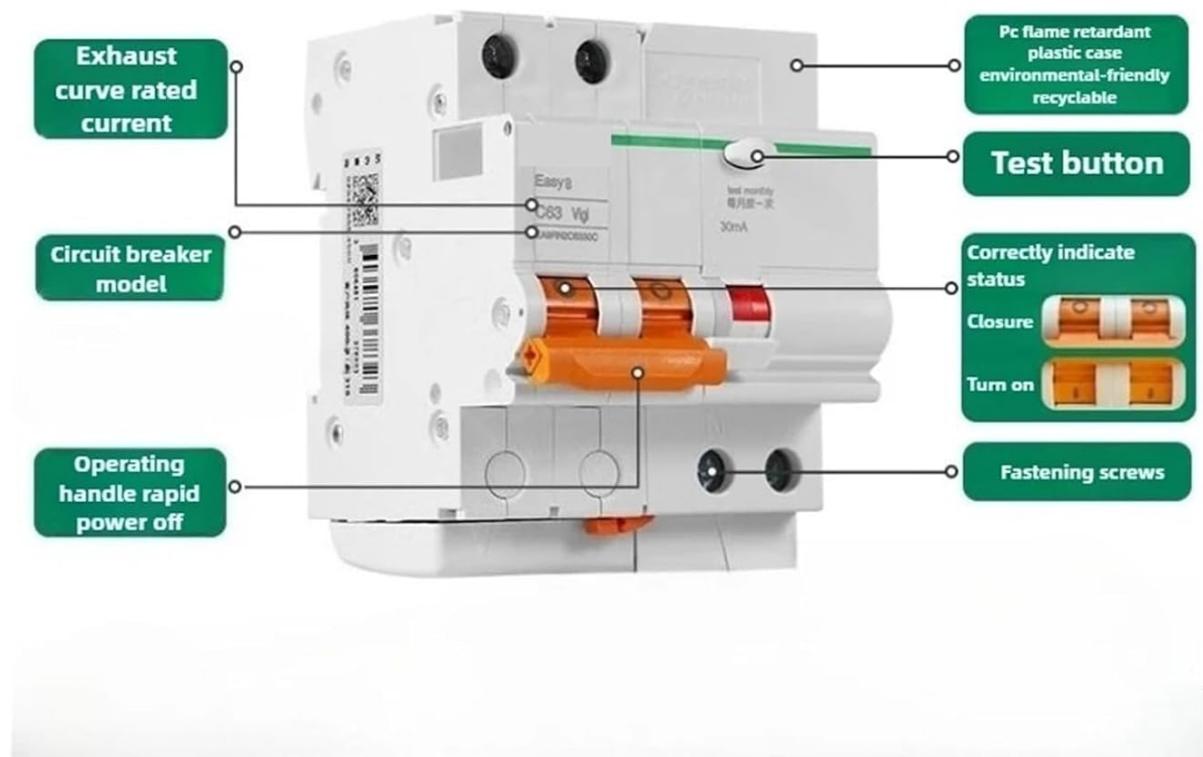


Figure 4.1: Labeled components of the LDGSUPH E9 Circuit Breaker, including the operating handle, test button, and status indicators.

Turning On/Off:

- **To Turn On:** Push the operating handle (typically orange) upwards to the 'ON' position. The status indicator should show 'Turn On'.
- **To Turn Off:** Push the operating handle downwards to the 'OFF' position. The status indicator should show 'Closure'.

Testing the Leakage Protector:

Regularly test the leakage protection function to ensure it is operating correctly.

1. Ensure the circuit breaker is in the 'ON' position.
2. Press the 'Test button' (typically red or clearly marked).
3. The circuit breaker should immediately trip to the 'OFF' position, indicating the leakage protection is functional.
4. To reset, push the operating handle fully down, then push it back up to the 'ON' position.

If the circuit breaker does not trip when the test button is pressed, it may be faulty and should be replaced by a qualified electrician.

5. MAINTENANCE

The LDGSUPH E9 Circuit Breaker requires minimal maintenance. Regular inspection can help ensure its longevity and reliable operation.

- **Visual Inspection:** Periodically inspect the circuit breaker for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the circuit breaker with a dry, soft cloth. Do not use liquids or abrasive cleaners. Ensure power is disconnected before cleaning.
- **Functional Test:** Perform the leakage protector test (Section 4) at least once a month.
- **Professional Check:** Consider having a qualified electrician inspect your electrical panel and circuit breakers periodically.

6. TROUBLESHOOTING

If your E9 Circuit Breaker is not functioning as expected, refer to the following troubleshooting guide. For complex issues, contact a qualified electrician.

Problem	Possible Cause	Solution
Circuit breaker trips frequently.	Overload, short circuit, or earth leakage fault.	Disconnect appliances from the circuit. Reset the breaker. If it trips again, consult an electrician to identify the fault.
Circuit breaker does not reset.	Persistent fault (overload, short circuit, or leakage) or internal damage.	Ensure all loads are disconnected. If it still doesn't reset, there might be a persistent fault or the breaker is damaged. Consult an electrician.
Leakage protector test button does not trip the breaker.	Faulty leakage protection mechanism.	The circuit breaker is faulty and must be replaced by a qualified electrician.
Breaker feels hot to the touch.	Overload, loose connection, or internal fault.	Immediately disconnect power to the circuit. This indicates a serious issue. Contact a qualified electrician.

7. SPECIFICATIONS

The following are the technical specifications for the LDGSUPH E9 Circuit Breaker with Leakage Protector:

- **Model:** E9
- **Brand:** LDGSUPH
- **Rated Voltage:** 220V
- **Rated Current Options:** 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
- **Leakage Protector Type:** 2P
- **Number of Poles:** 2P, 3P, 4P (depending on variant)
- **Arc Extinguishing Method:** Vacuum circuit breaker
- **Power Mode:** Alternating Current (AC)
- **Circuit Breaker Type:** Standard

- **Mounting Type:** Bolt-On Mount
- **Item Weight:** Approximately 14.1 ounces (0.4 kg)
- **Package Dimensions:** Approximately 0.39 x 0.39 x 0.39 inches (1 x 1 x 1 cm) *-Note: These package dimensions appear to be placeholder values and may not reflect the actual product size.*

8. WARRANTY AND SUPPORT

Specific warranty information for the LDGSUPH E9 Circuit Breaker is not provided in this manual. For details regarding warranty coverage, returns, or technical support, please refer to the product packaging, your purchase documentation, or contact the seller directly.

For any technical inquiries or assistance with installation and troubleshooting beyond the scope of this manual, it is recommended to consult a qualified and certified electrician.

ASK A QUESTION ABOUT THIS MANUAL

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