

# INSTRUCTION MANUAL

## SAFETY PRECAUTIONS

Before installation, wiring, operation, maintenance and inspection of the device, be sure to read the operating instructions carefully to ensure proper operations.

⚠ **WARNING**: Offending against the message will result in death or serious injury.

⚠ **CAUTION**: Offending against the message will result in minor injury or physical damage.

### ⚠ **DANGER**

1. Turn off the upstream circuit breaker before installing or service to prevent electric shocks and burns due to short circuit.
2. Do not touch any live naked terminals. It makes an electric shock.

### ⚠ **CAUTION**

1. Before installation, be sure to read this operating instruction carefully to ensure proper operation.
2. Installation, maintenance and inspection of the circuit breaker should be performed by qualified engineers having special knowledge.
3. Do not install the circuit breaker in place of environment with shock, high temperature, humidity, dust, corrosive gases, excessive vibration, etc. to prevent fire accidents and malfunction of the device.
4. Use the breaker in a range of the rated voltage and current shown on the name plate.  
Or it may cause malfunction.
5. The ON terminal must be to the line circuit and the OFF terminal to the load circuit.
6. Please tighten the terminal screw in proper torque to prevent overheating. - M4: 1.2Nm · M5:2.0Nm
7. The clamp terminal can accommodate wires, ranging from 1.00mm<sup>2</sup>- 10.0mm<sup>2</sup>.  
If possible, use the required wire as follows  
(below or <13A:1mm<sup>2</sup>~2.5mm<sup>2</sup>, 13~16A(16):1mm<sup>2</sup>~4mm<sup>2</sup>, 16~25A(25):2.5mm<sup>2</sup>~6mm<sup>2</sup>, 25~50A(50):4mm<sup>2</sup>~10<sup>2</sup>mm<sup>2</sup>)
8. Each terminal or conductor pole should be connected in parallel as shown in the Fig.1.  
When mounting more than one breaker side by side, fit insulation barriers between breakers.  
If the breaker has no interphase barrier, insulate the exposed part of the crimp terminals or conductor with insulation sleeves or tape or attach terminal covers. (sold separately)

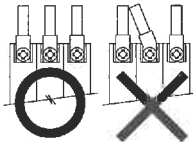


Fig.1

9. Measuring insulation resistance between phases or dielectric strength between phases are not available for this breaker. To do them, remove the breaker from the circuit in advance.
10. Be sure to ground the ground terminals of electrical devices.
11. When the circuit breaker trips of itself, remove the cause and turn the handle on.  
Or else, it may lead to the fire accident.
12. Do not modify the device unless it is permitted.
13. When the device become useless, it should be dispose of them as an industrial waste.
14. Do not connect aluminum terminals and conductors to the breaker directly.

## OTHER CAUTIONS

1. Be careful not to be damaged by accidents during transportation or installation.
2. Refer to the catalogue for further details.

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고객센터 - 신속한 서비스, 든든한 기술지원  
전화. **1544-2080** | 홈페이지. [www.lselectric.co.kr](http://www.lselectric.co.kr)

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Specifications in this instruction manual are subject to change without notice due to continuous products development and improvement.

Address : LS Tower, 127, LS-ro, 14119, KOREA

# Operating and Installations Instruction for Residual Current Circuit Breaker with Overcurrent Protection for A.C. fault currents

## 1. Technical Data

See label or marking on Breaker.

## 2. Mounting

Installation in the desired position by means of snap-on fastening to DIN-rails acc. to EN 50 022 35mm width.

Protection against unintentional touch with life parts acc.to VBG 4 and DIN VDE 106 Part 100.

Operation of the switch independent from mounting position.

**Attention : Mounting and dismounting only permissible by authorized electrician.**

## 3. Connection

The supply may be from top as required. Pay attention to the reliable and tight connection of the conductor. Screwdriver torque max.2.0 Nm.

## 4. Operation

The RCBO is switched ON and OFF by means of the brown handle.

Be sure to ground the ground terminals of electrical devices.(See Fig.1 FE should be to the ground)

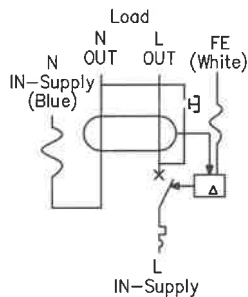


Fig.1

## 5. Functional Test

For functional test with supply voltage applied,switch the brown handle to ON position. Then press the test pushbutton. The RCBO must trip immediately(the brown handle returns to OFF position).

The functional test should be performed in regular monthly intervals.

## 6 Testing of the Protective Measures

Besides the functional test of the RCBO the effectiveness of the protective measures should be tested for compliance with the relevant specifications.

## 7. When opening the Breaker the warranty. Lapses.

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