

# 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.
3. Do not touch two live lines simultaneously. The circuit breaker does not operate even if an electric shock occurs.

### ⚠ 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. On connecting the terminal, it is possible to connect without distinction between line and load circuit.  
If possible connect the ON terminal to the line circuit and the OFF terminal to the load circuit.
6. Please tighten the terminal screw in proper torque to prevent overheating. - M8: 56.1kgf-cm
7. The clamp terminal can accommodate wires, ranging from 22mm<sup>2</sup>-50mm<sup>2</sup>.  
If possible, use the required wire as follows  
(63A:22mm<sup>2</sup>,100A:38mm<sup>2</sup>,125A:50mm<sup>2</sup>)
8. Each terminal or conductor pole should be connected in parallel as shown in the Fig.1.  
When mounting more then 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)
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.
15. When using the DIN Rail.(Fig.2)
  - a. Lift the Breaker in direction to the arrow mark ① on the mounted DIN Rail.
  - b. Push(Full) the Breaker in direction to the arrow mark ② on the mounted DIN Rail.

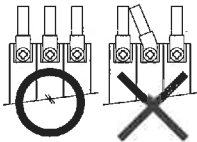


Fig.1

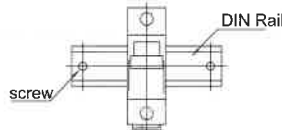
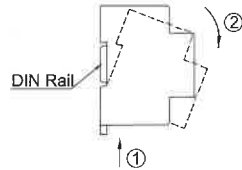


Fig.2



## OTHER CAUTIONS

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



고객센터 - 신속한 서비스, 든든한 기술지원  
전화. 1544-2080 | 홈페이지. www.ls-electric.com

사용설명서의 사양은 지속적인 제품 개발 및 개선으로 인해 예고없이 변경될 수 있습니다.



Technical Question or After-sales Service  
Customer Center - Quick Responsive Service, Excellent technical support  
TEL. 82-1644-5481 | Home page. www.ls-electric.com

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