

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

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

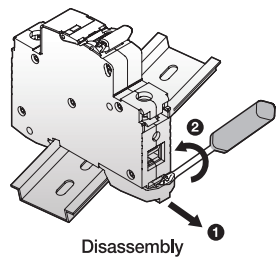
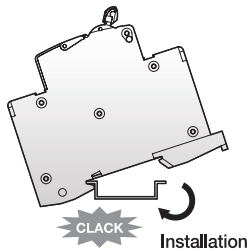
Customer Center - Quick Responsive Service, Excellent technical support
 TEL. 82-1644-5481 | Home page. www.lselectric.co.kr
 Specifications in this instruction manual are subject to change without notice due to continuous products development and improvement.

1. Ratings

Type	BKN-b	BKN/BKN-c
Rated Current	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Poles	1P, 1P+N, 2P, 3P, 3P+N, 4P – BKN-b, BKN 1P, 2P, 3P, 4P – BKN-c	
Rated Voltage	1P: 230/400V AC, 1P+N: 230V AC, 2P~4P: 400V AC	
Breaking Capacity	I _{cu} =10kA, I _{cs} =7.5kA	I _{cu} =I _{cs} =6kA
Characteristics	B, C, D curve	
Mount	On 35mm DIN-Rail	
Terminal	Lug Type (Cable up to 16mm ²) - BKN Dual Type (Lug & Screw) - BKN-b, BKN-c	
Accessory	AX, AL, SHT, OVT/UVT	
Standard	SEMKO CB IEC60898-1 - BKN-b, BKN, BKN-c SEMKO CB IEC60947-2 - BKN-b	

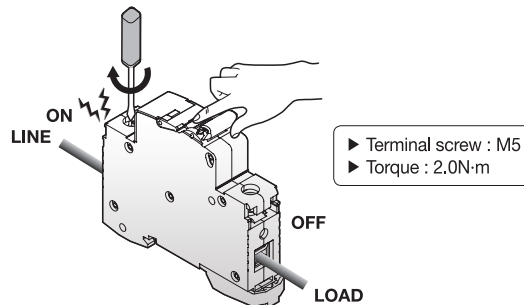
2. Installation

1) Installation and Disassembly



2) Connection

※ Caution against insulation



In(A)	Wiring Capability
In ≤ 6	1mm ²
6 < In ≤ 13	1.5mm ²
13 < In ≤ 20	2.5mm ²
20 < In ≤ 25	4mm ²
25 < In ≤ 32	6mm ²
32 < In ≤ 50	10mm ²
50 < In ≤ 63	16mm ²

* Reference : IEC 60898-1

3. Safety Precaution

⚠ **DANGER** : 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 shocks.
- 3) Do not touch two live lines simultaneously. The circuit breaker does not operate even if an electric shock occurs.

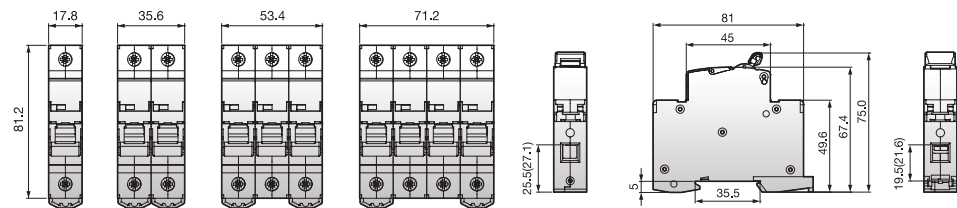
⚠ CAUTION

- 1) 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.
- 2) Use the breaker in a range of the rated voltage and current shown on the name plate. Or it may cause malfunction.
- 3) Each terminal or conductor pole should be connected parallel as shown below.



- 4) Be sure to ground the ground terminals of electrical devices.
- 5) When the circuit breaker trips of it self, remove the cause and turn the handle on. Or else, it may lead to the fire accident.
- 6) Do not modify the device unless it is permitted.
- 7) When the device become useless, it should be dispose of them as an industrial waste.
- 8) In order to fix MCB in DIN-Rail, Install fixing bracket on the both MCB side, After wiring.

4. Dimension



* Each item's appearance varies slightly But Terminal height and Overall dimension are same

* BKN-b(BKN/BKN-c) Dimension
 If there is no (), it is Common Dimension