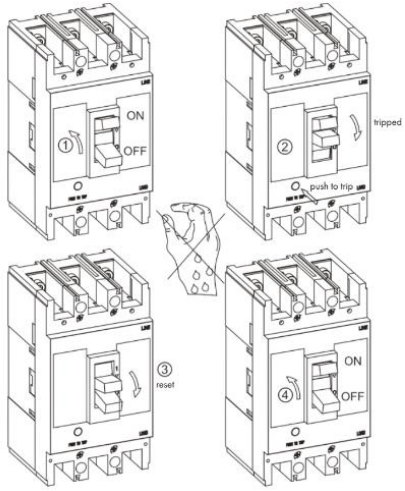
Part List

MCCB \ PART					
Frame 125	3P	4ea (M4x70)	6ea (M7xL23)	4ea	-
	4P	4ea (M4x70)	8ea (M7xL23)	6ea	-
Frame 160&250	3P	4ea (M4.5x70)	6ea (M8xL27)	4ea	-
	4P	4ea (M4.5x70)	8ea (M8xL27)	6ea	-
Frame 400&630	3P	4ea (M5x60)	6ea (M10xL30)	4ea	1ea
	4P	6ea (M7x70)	8ea (M10xL30)	6ea	1ea
Frame 800	3P	4ea (M7x70)	6ea (M12xL35)	4ea	1ea
	4P	6ea (M7x70)	8ea (M12xL35)	6ea	1ea
Frame 1600	3P	4ea (M7x70)	12ea (M10xL30)	4ea	1ea
	4P	6ea (M7x70)	16ea (M10xL30)	6ea	1ea

Test

Do not operate circuit breaker with wet hands!



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INSTRUCTIONS FOR USING

Moulded Case Circuit Breaker

Series

MF Fixed type
MT Thermal adjustable type
ME Electronic type
ML Earth leakage circuit breakers type

⚠ Be sure to read the manual and safety precautions before use products.

⚠ This manual should be given to the person who actually uses the products and is responsible for their maintenance.

SAFETY PRECAUTIONS

Before installation, wiring, operation, maintenance and inspection of the device, be sure to read the safety precautions carefully and follow the message to ensure proper operations.

⚠ 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 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 the manual 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.

a) Ambient Temperature: -5~40°C

b) Relative Humidity: 45-95%

c) Altitude: less than 2000m

d) Do not install the circuit breaker in place of environment with shock, high temperature, humidity, dust, conductive powder, corrosive gases, excessive vibration, etc.

4. Use the breaker in a range of the rated voltage and current shown on the name plate. Or it may cause malfunction.

5. Set the breaker with correct direction, to prevent fire accidents and malfunction.

6. Please tighten the terminal screw in proper torque to prevent overheating M10:240~300kgf.cm M12: 400-500kgf.cm

7. Each crimp 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 conductors with insulation sleeves or tape, or attach terminal covers (sold separately)

8. Be sure to ground the ground terminals of electrical devices

9. Be sure to install the interphase barriers between the power supply terminal phases as shown in the Fig.2.

10. When the circuit breaker trips of itself, remove the cause and turn the handle on. Or else, it may lead to the fire accident.

11. Do not modify the device unless it is permitted. 12. When the device become useless, it should be dispose of them as an industrial waste.

OTHER CAUTIONS

1. Perform an operation check at least once in a month by pushing the test button of ELCB.

2. Measuring insulation resistance between phases or dielectric strength test between phases are not available for ELCB. To do them, remove the breaker from the circuit in advance.

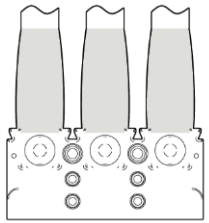
3. Do not send by portable transceiver (ex, 5W,27,140,430,900 MHz) whthin 1m of this container, or the ELCB may malfunction.

4. Be careful not to be damaged by accidents during tranportation or installation.

5. Refer to the catalogue for further details.

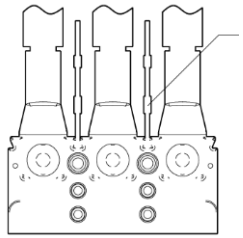
Pig. 1

Insulating tube of tape

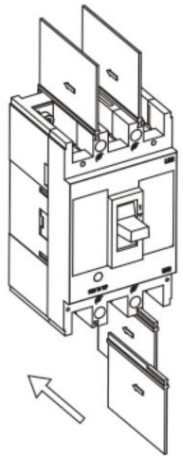


Pig. 2

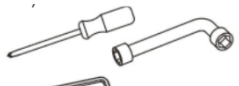
Interpole barriers



Mandatory



Tools:
Phillips screwdriver
Hex wrench
Hex key



Setting

MCCB is set current to match the load