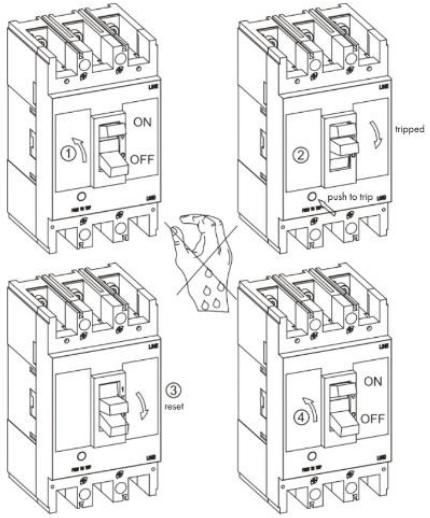
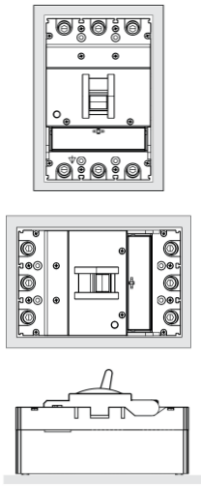
Test

The cutting ability should be tested after installation, following steps 1 to 4



Installation method

The MCCB can be installed in the following orientations



Part List

MCCB \ PART					
Frame 125 Frame 160 Frame 250	2P	2ea (M4x68)	4ea (M8 x L28)	2ea	-
	3P	4ea (M4x68)	6ea (M8 x L28)	4ea	-
	4P	4ea (M4x68)	8ea (M8 x L28)	6ea	-
Frame 400 Frame 630	3P	4ea (M6x73)	6ea (M10 x L40)	4ea	1ea
	4P	6ea (M6x73)	8ea (M10 x L40)	6ea	1ea
Frame 800	3P	4ea (M6x100)	6ea (M12 x L48)	4ea	1ea
	4P	6ea (M6x100)	8ea (M12 x L48)	6ea	1ea
Frame 1600	3P	4ea (M6x120)	12ea (M10 x L50)	4ea	1ea
	4P	6ea (M6x120)	16ea (M10 x L50)	6ea	1ea

Designed by BTB Electric
Add: Orhangazi Mah. Mimsan San. Sit. 1780 sok.
No: 5 Esenyurt / İstanbul / Türkiye
E-mail: sales@btb-electric.com
Web: btb-electric.com

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 follow all safety precautions before using the product.

⚠ This manual should be given to the person who will actually use the product and be responsible for its maintenance.

⚠ Do not operate the circuit breaker with wet hands!

SAFETY PRECAUTIONS

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

⚠ DANGER: Failure to follow the instructions may result in death or serious injury.

⚠ CAUTION: Failure to follow the instructions may result in minor injury or physical damage.

⚠ DANGER

1. Turn off the upstream circuit breaker before installation or servicing to prevent electric shocks and burns caused by short circuits.

2. Do not touch any exposed live terminals, as this can cause electric shock.

3. Do not touch two live wires simultaneously. The circuit breaker will not trip 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 with specialized knowledge.

3. Do not install the circuit breaker in environments with shock, high temperature, humidity, dust, corrosive gases, excessive vibration, etc., to prevent fire accidents and device malfunction.

a) Ambient Temperature: -5~40°C

b) Relative Humidity: 45-95%

c) Altitude: less than 2000m

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

4. Use the breaker within the range of the rated voltage and current shown on the nameplate, or it may cause malfunction.

5. Install the breaker in the correct orientation to prevent fire accidents and malfunction.

6. Tighten the terminal screws to the 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 Fig. 1. When mounting more than one breaker side by side, fit insulation barriers between the breakers. If the breaker has no interphase barrier, insulate the exposed parts of the crimp terminals or conductors with insulation sleeves or tape, or attach terminal covers (sold separately).

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

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

10. When the circuit breaker trips, identify and eliminate the cause before turning the handle back on. Otherwise, it may lead to a fire accident.

11. Do not modify the device unless permitted.

12. When the device becomes useless, it should be disposed of as industrial waste.

OTHER CAUTIONS

1. Perform an operational check at least once a month by pushing the test button on the ELCB.

2. Measuring insulation resistance between phases or performing dielectric strength tests between phases is not allowed for the ELCB. To do this, remove the breaker from the circuit in advance.

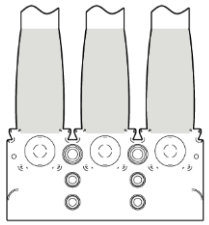
3. Do not use a portable transceiver (e.g., 5W, 27, 140, 430, 900 MHz) within 1 meter of this container, or the ELCB may malfunction.

4. Be careful to avoid damage from accidents during transportation or installation.

5. Refer to the catalog for further details.

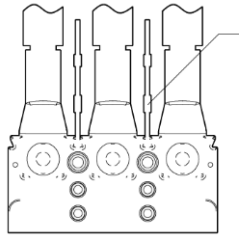
Pig. 1

Insulating tape or tube

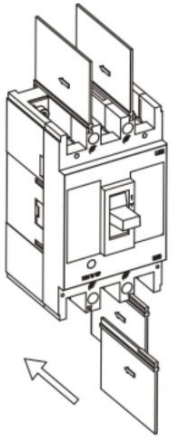


Pig. 2

Interpole barriers



Mandatory

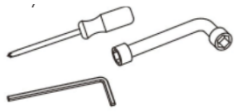


Tools:

Screwdriver

Hex wrench

Hex key



Setting

The MCCB is set to a current rating that matches the load