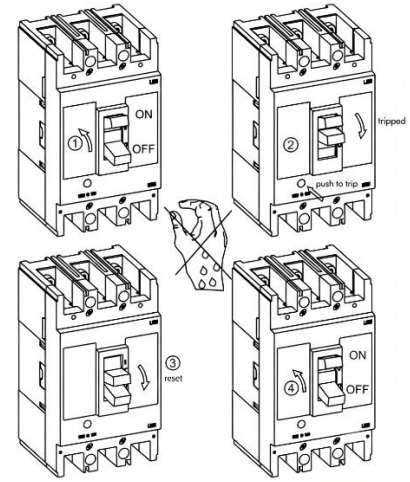
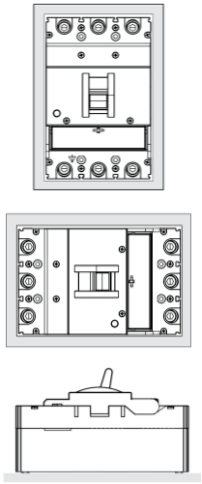
Trip Test

The circuit breaker should be tested after installation by following Steps 1 to 4



Installation method

The MCCB can be installed in the following orientations



Parts List and Tightening Torque

PART / MCCB						
Frame 125 Frame 160	2P	2ea (M4x68)	4ea (M8 x L28)	6-8Nm	2ea	-
	3P	4ea (M4x68)	6ea (M8 x L28)	6-8Nm	4ea	-
	4P	4ea (M4x68)	8ea (M8 x L28)	6-8Nm	6ea	-
Frame 250	3P	4ea (M4x68)	6ea (M8 x L28)	12-14Nm	4ea	-
	4P	4ea (M4x68)	8ea (M8 x L28)	12-14Nm	6ea	-
Frame 400 Frame 630	3P	4ea (M6x73)	6ea (M10 x L40)	20-24Nm	4ea	1ea
	4P	6ea (M6x73)	8ea (M10 x L40)	20-24Nm	6ea	1ea
Frame 800	3P	4ea (M6x100)	6ea (M12 x L48)	24-26Nm	4ea	1ea
	4P	6ea (M6x100)	8ea (M12 x L48)	24-26Nm	6ea	1ea
Frame 1600	3P	4ea (M6x120)	12ea (M10 x L50)	20-24Nm	4ea	1ea
	4P	6ea (M6x120)	16ea (M10 x L50)	20-24Nm	6ea	1ea

BTB ELECTRIC REALVALUE FORLIFE

Designed by NEXUS BTB ELEKTRİK ÜRETİM TİCARET ANONİM ŞİRKETİ
Add: Ortaköy Mah. Ambarlıdere Yolu Sk. Lotus Vorld No. 6 İç Kapı No: 5
Beşiktaş / İstanbul, Türkiye
E-mail: sales@btb-electric.com | Tel: +90 212 401 6903
Web: btb-electric.com

INSTRUCTIONS FOR USE

Moulded Case Circuit Breaker

BTB ELECTRIC

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



⚠ 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 specified torque to prevent overheating. Refer to the “Parts List and Tightening Torque” table for the required tightening torque.

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. The ELCB (ML series) may malfunction when a portable transceiver (e.g., 5 W; 27, 140, 430, or 900 MHz bands) is used within 1 meter of the enclosure.

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

5. Refer to the catalog for further details.

Fig. 1

Insulating tape or tube

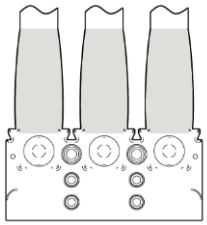
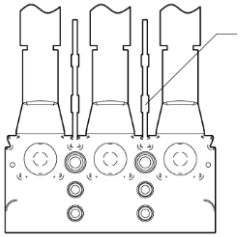
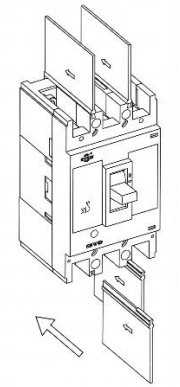


Fig. 2

Interpole barriers



Mandatory

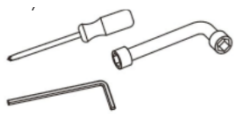


Tools:

Screwdriver

Hex wrench

Hex key



Setting

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

