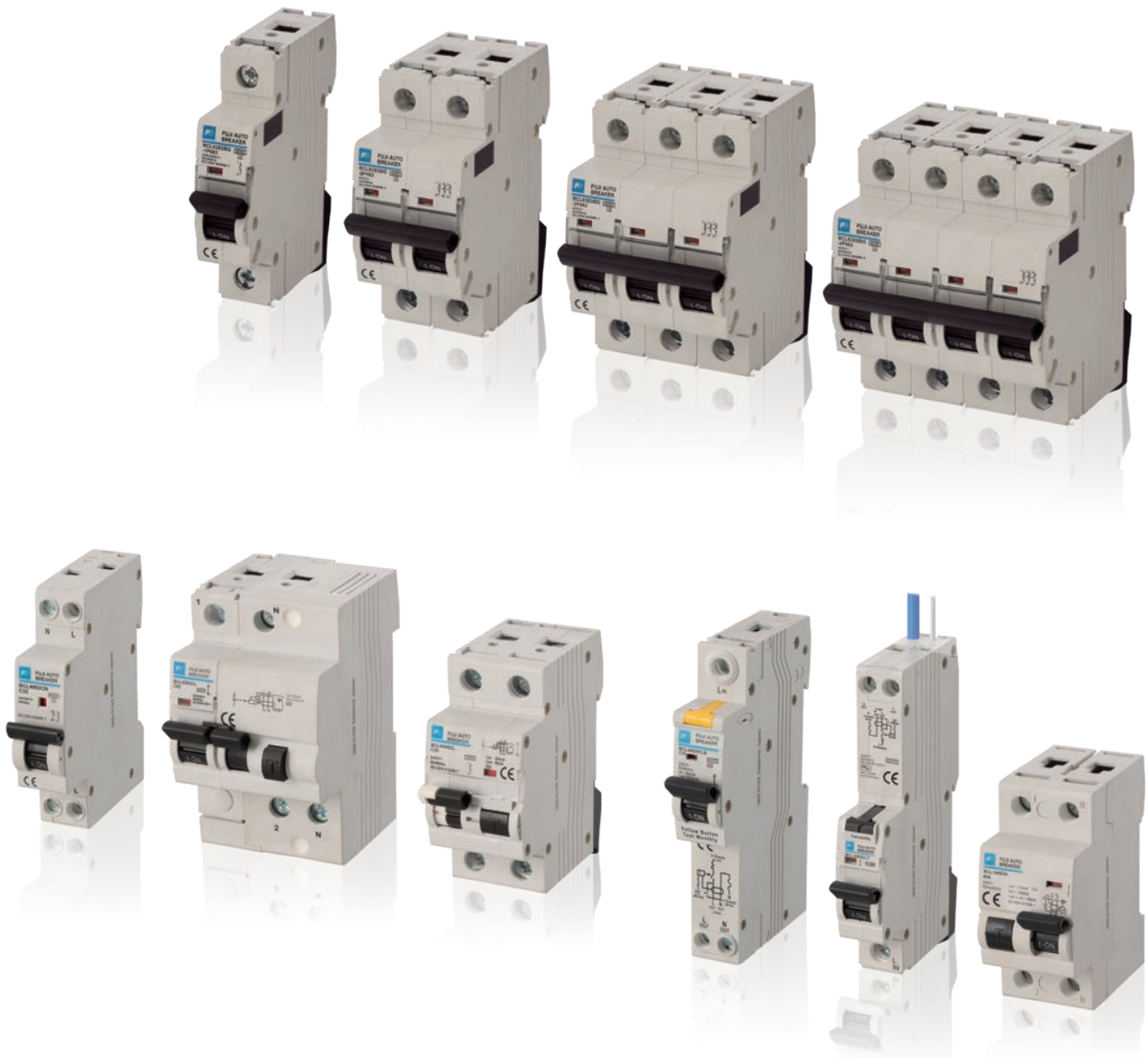


Miniature Circuit Breakers

BCL series - MCB's, MCBn's, RCBO's and RCCB's

For the protection purpose of distribution equipment in the industrial or similar facility.



BCL Series Product Composition

MCB : Miniature Circuit Breaker

- Overcurrent protection
- Overload protection

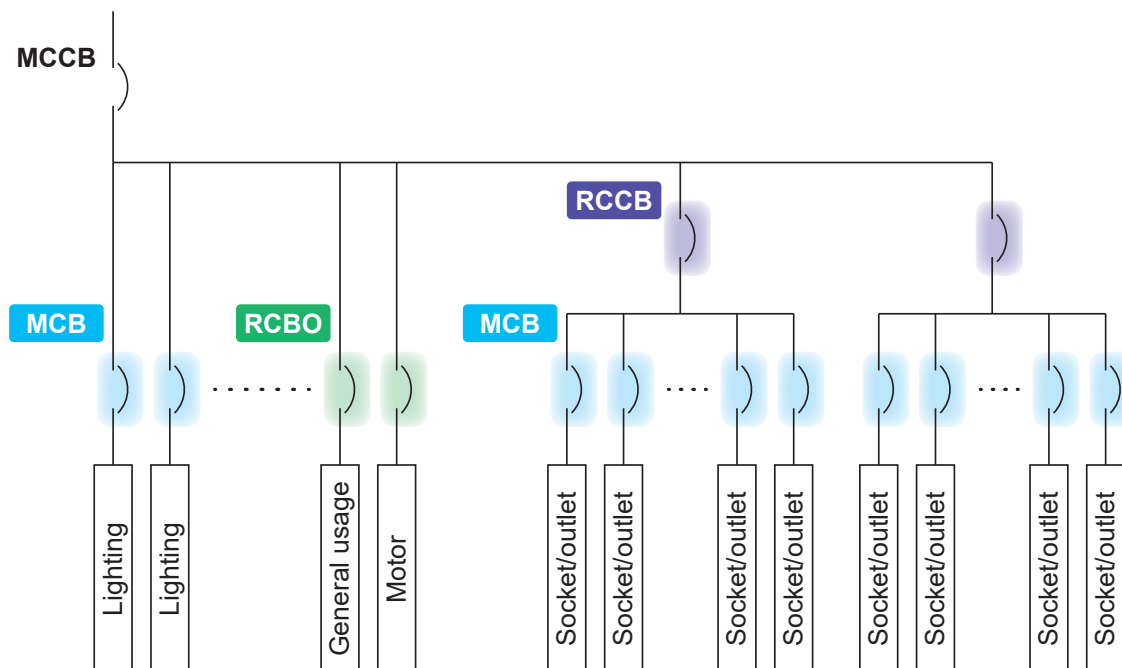
RCBO : Residual Current operated Circuit Breaker with integral Overcurrent protection

- MCB function + Detection of imbalance currents
such as leakage current and send a signal internally to trip circuit.

RCCB : Residual Current operated Circuit Breaker without integral Overcurrent protection

- Detection of imbalance currents
such as leakage current and send a signal internally to trip circuit.

Application example



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MCB	BCL63E0, BCL63H0	4
MCBn	BCL40E0	7
RCBO		
Add on block type	BCL63E0	9
2 poles module type	BCL40H0	12
Bottom or Top Wired type	BCL40E0	14
RCCB	BCL100	16
Technical data		18



MCB : Miniature Circuit Breaker

Features

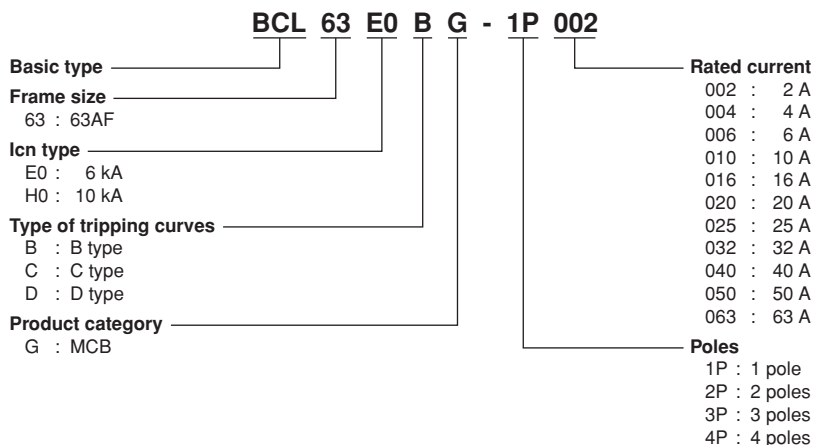
- High qualified type in the line up.
 - 6kA standard breaking capacity.
 - 10kA high qualified breaking capacity.
 Capacity type in addition to MCB line up.
- ON/OFF visual indicator.
 - Clarified a state of ON/OFF visually.
 - On: Red
 - Off: Green
- Instantaneous tripping characteristic.
 - B type: between 3 to 5 times of I_n for small load such as lighting fixtures, appliances etc.
 - C type: between 5 to 10 times of I_n for general load such as illumination, fluorescent, inductive etc.
 - D type: between 10 to 20 times of I_n for industry high inrush current load such as motors, machines etc.



Specifications

Type	BCL63E0 □ G				BCL63H0 □ G			
	-1P □□□	-2P □□□	-3P □□□	-4P □□□	-1P □□□	-2P □□□	-3P □□□	-4P □□□
Appearance								
Number of poles	1	2	3	4	1	2	3	4
Rated impulse withstand voltage (Uimp)	4.0 kV							
Rated insulation voltage (Ui)	500 V							
Rated Current (In)	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63 A							
Rated Voltage (Un)	1 pole: 230/400 V~ 2, 3 and 4 poles: 400 V~				1 pole: 240/415 V~ 2, 3 and 4 poles: 415 V~			
Breaking Capacity (Icn)	6 kA (=Ics)				10 kA			
Rated Frequency	50/60 Hz							
Tripping Characteristic	B type : 3 to 5 In, C type : 5 to 10 In, D type : 10 to 20 In							
Electrical Endurance	8,000 cycles							
Mechanical Endurance	20,000 cycles							
Calibration Temperature	30 °C							
Operation Temperature	-25 °C to 45 °C							
Protection Degree	IP20							
Cable Termination	Rigid Conductor 35mm ² Maximum Flexible Conductor 25mm ² Maximum							
Torque of Screw	2.5 N•m							
Standard	IEC/EN 60898-1							

Part number nomenclature



Map of part number's

6kA (BCL63E0□G)

In	1 pole			2 poles		
	B Type	C Type	D Type	B Type	C Type	D Type
2	BCL63E0BG-1P002	BCL63E0CG-1P002	BCL63E0DG-1P002	BCL63E0BG-2P002	BCL63E0CG-2P002	BCL63E0DG-2P002
4	BCL63E0BG-1P004	BCL63E0CG-1P004	BCL63E0DG-1P004	BCL63E0BG-2P004	BCL63E0CG-2P004	BCL63E0DG-2P004
6	BCL63E0BG-1P006	BCL63E0CG-1P006	BCL63E0DG-1P006	BCL63E0BG-2P006	BCL63E0CG-2P006	BCL63E0DG-2P006
10	BCL63E0BG-1P010	BCL63E0CG-1P010	BCL63E0DG-1P010	BCL63E0BG-2P010	BCL63E0CG-2P010	BCL63E0DG-2P010
16	BCL63E0BG-1P016	BCL63E0CG-1P016	BCL63E0DG-1P016	BCL63E0BG-2P016	BCL63E0CG-2P016	BCL63E0DG-2P016
20	BCL63E0BG-1P020	BCL63E0CG-1P020	BCL63E0DG-1P020	BCL63E0BG-2P020	BCL63E0CG-2P020	BCL63E0DG-2P020
25	BCL63E0BG-1P025	BCL63E0CG-1P025	BCL63E0DG-1P025	BCL63E0BG-2P025	BCL63E0CG-2P025	BCL63E0DG-2P025
32	BCL63E0BG-1P032	BCL63E0CG-1P032	BCL63E0DG-1P032	BCL63E0BG-2P032	BCL63E0CG-2P032	BCL63E0DG-2P032
40	BCL63E0BG-1P040	BCL63E0CG-1P040	BCL63E0DG-1P040	BCL63E0BG-2P040	BCL63E0CG-2P040	BCL63E0DG-2P040
50	BCL63E0BG-1P050	BCL63E0CG-1P050	BCL63E0DG-1P050	BCL63E0BG-2P050	BCL63E0CG-2P050	BCL63E0DG-2P050
63	BCL63E0BG-1P063	BCL63E0CG-1P063	BCL63E0DG-1P063	BCL63E0BG-2P063	BCL63E0CG-2P063	BCL63E0DG-2P063

In	3 pole			4 poles		
	B Type	C Type	D Type	B Type	C Type	D Type
2	BCL63E0BG-3P002	BCL63E0CG-3P002	BCL63E0DG-3P002	BCL63E0BG-4P002	BCL63E0CG-4P002	BCL63E0DG-4P002
4	BCL63E0BG-3P004	BCL63E0CG-3P004	BCL63E0DG-3P004	BCL63E0BG-4P004	BCL63E0CG-4P004	BCL63E0DG-4P004
6	BCL63E0BG-3P006	BCL63E0CG-3P006	BCL63E0DG-3P006	BCL63E0BG-4P006	BCL63E0CG-4P006	BCL63E0DG-4P006
10	BCL63E0BG-3P010	BCL63E0CG-3P010	BCL63E0DG-3P010	BCL63E0BG-4P010	BCL63E0CG-4P010	BCL63E0DG-4P010
16	BCL63E0BG-3P016	BCL63E0CG-3P016	BCL63E0DG-3P016	BCL63E0BG-4P016	BCL63E0CG-4P016	BCL63E0DG-4P016
20	BCL63E0BG-3P020	BCL63E0CG-3P020	BCL63E0DG-3P020	BCL63E0BG-4P020	BCL63E0CG-4P020	BCL63E0DG-4P020
25	BCL63E0BG-3P025	BCL63E0CG-3P025	BCL63E0DG-3P025	BCL63E0BG-4P025	BCL63E0CG-4P025	BCL63E0DG-4P025
32	BCL63E0BG-3P032	BCL63E0CG-3P032	BCL63E0DG-3P032	BCL63E0BG-4P032	BCL63E0CG-4P032	BCL63E0DG-4P032
40	BCL63E0BG-3P040	BCL63E0CG-3P040	BCL63E0DG-3P040	BCL63E0BG-4P040	BCL63E0CG-4P040	BCL63E0DG-4P040
50	BCL63E0BG-3P050	BCL63E0CG-3P050	BCL63E0DG-3P050	BCL63E0BG-4P050	BCL63E0CG-4P050	BCL63E0DG-4P050
63	BCL63E0BG-3P063	BCL63E0CG-3P063	BCL63E0DG-3P063	BCL63E0BG-4P063	BCL63E0CG-4P063	BCL63E0DG-4P063

10kA (BCL63H0□G)

In	1 pole			2 poles		
	B Type	C Type	D Type	B Type	C Type	D Type
2	BCL63H0BG-1P002	BCL63H0CG-1P002	BCL63H0DG-1P002	BCL63H0BG-2P002	BCL63H0CG-2P002	BCL63H0DG-2P002
4	BCL63H0BG-1P004	BCL63H0CG-1P004	BCL63H0DG-1P004	BCL63H0BG-2P004	BCL63H0CG-2P004	BCL63H0DG-2P004
6	BCL63H0BG-1P006	BCL63H0CG-1P006	BCL63H0DG-1P006	BCL63H0BG-2P006	BCL63H0CG-2P006	BCL63H0DG-2P006
10	BCL63H0BG-1P010	BCL63H0CG-1P010	BCL63H0DG-1P010	BCL63H0BG-2P010	BCL63H0CG-2P010	BCL63H0DG-2P010
16	BCL63H0BG-1P016	BCL63H0CG-1P016	BCL63H0DG-1P016	BCL63H0BG-2P016	BCL63H0CG-2P016	BCL63H0DG-2P016
20	BCL63H0BG-1P020	BCL63H0CG-1P020	BCL63H0DG-1P020	BCL63H0BG-2P020	BCL63H0CG-2P020	BCL63H0DG-2P020
25	BCL63H0BG-1P025	BCL63H0CG-1P025	BCL63H0DG-1P025	BCL63H0BG-2P025	BCL63H0CG-2P025	BCL63H0DG-2P025
32	BCL63H0BG-1P032	BCL63H0CG-1P032	BCL63H0DG-1P032	BCL63H0BG-2P032	BCL63H0CG-2P032	BCL63H0DG-2P032
40	BCL63H0BG-1P040	BCL63H0CG-1P040	BCL63H0DG-1P040	BCL63H0BG-2P040	BCL63H0CG-2P040	BCL63H0DG-2P040
50	BCL63H0BG-1P050	BCL63H0CG-1P050	BCL63H0DG-1P050	BCL63H0BG-2P050	BCL63H0CG-2P050	BCL63H0DG-2P050
63	BCL63H0BG-1P063	BCL63H0CG-1P063	BCL63H0DG-1P063	BCL63H0BG-2P063	BCL63H0CG-2P063	BCL63H0DG-2P063

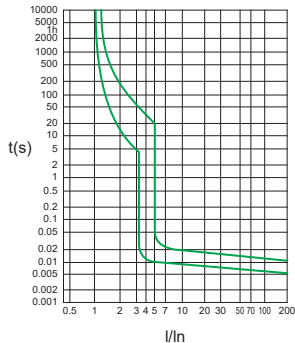
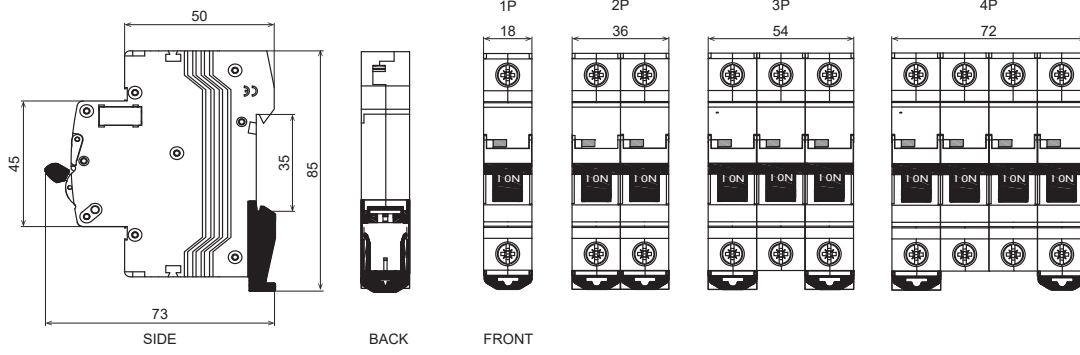
In	3 pole			4 poles		
	B Type	C Type	D Type	B Type	C Type	D Type
2	BCL63H0BG-3P002	BCL63H0CG-3P002	BCL63H0DG-3P002	BCL63H0BG-4P002	BCL63H0CG-4P002	BCL63H0DG-4P002
4	BCL63H0BG-3P004	BCL63H0CG-3P004	BCL63H0DG-3P004	BCL63H0BG-4P004	BCL63H0CG-4P004	BCL63H0DG-4P004
6	BCL63H0BG-3P006	BCL63H0CG-3P006	BCL63H0DG-3P006	BCL63H0BG-4P006	BCL63H0CG-4P006	BCL63H0DG-4P006
10	BCL63H0BG-3P010	BCL63H0CG-3P010	BCL63H0DG-3P010	BCL63H0BG-4P010	BCL63H0CG-4P010	BCL63H0DG-4P010
16	BCL63H0BG-3P016	BCL63H0CG-3P016	BCL63H0DG-3P016	BCL63H0BG-4P016	BCL63H0CG-4P016	BCL63H0DG-4P016
20	BCL63H0BG-3P020	BCL63H0CG-3P020	BCL63H0DG-3P020	BCL63H0BG-4P020	BCL63H0CG-4P020	BCL63H0DG-4P020
25	BCL63H0BG-3P025	BCL63H0CG-3P025	BCL63H0DG-3P025	BCL63H0BG-4P025	BCL63H0CG-4P025	BCL63H0DG-4P025
32	BCL63H0BG-3P032	BCL63H0CG-3P032	BCL63H0DG-3P032	BCL63H0BG-4P032	BCL63H0CG-4P032	BCL63H0DG-4P032
40	BCL63H0BG-3P040	BCL63H0CG-3P040	BCL63H0DG-3P040	BCL63H0BG-4P040	BCL63H0CG-4P040	BCL63H0DG-4P040
50	BCL63H0BG-3P050	BCL63H0CG-3P050	BCL63H0DG-3P050	BCL63H0BG-4P050	BCL63H0CG-4P050	BCL63H0DG-4P050
63	BCL63H0BG-3P063	BCL63H0CG-3P063	BCL63H0DG-3P063	BCL63H0BG-4P063	BCL63H0CG-4P063	BCL63H0DG-4P063

Accessories

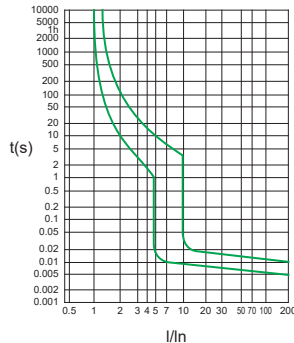
Type of accessories	Part number	for MCB of	Spec	Wire capacity	Mounting	Mechanical Endurance
Auxiliary switch	BCL9W1SA0 BCL9W1SH0	BCL63E0□G BCL63H0□G	6A@240VAC / 24VDC, 3A@415VAC	1-4mm ²	left side of MCB	4000 cycle
Alm	BCL9K1SA0 BCL9K1SH0	BCL63E0□G BCL63H0□G	6A@240VAC / 24VDC, 3A@415VAC			
SHT	BCL9FAA0 BCL9FKA0 BCL9FPA0 BCL9FRA0 BCL9FSA0 BCL9FLA0 BCL9FAH0 BCL9FKH0 BCL9FPH0 BCL9FRH0 BCL9FSH0 BCL9FLH0	BCL63E0□G BCL63H0□G	110VAC 230VAC 415VAC 24VDC 48VDC 110VDC 110VAC 230VAC 415VAC 24VDC 48VDC 110VDC			
Locking device	BCL9Q1AA	Common				

Dimensions and tripping curves

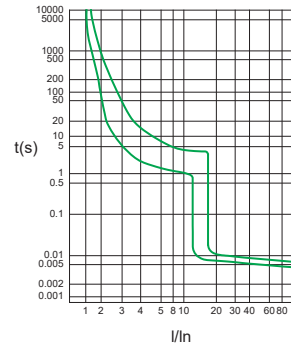
BCL63E0□G (Icn=6kA)



B curve

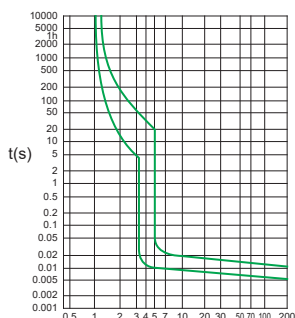
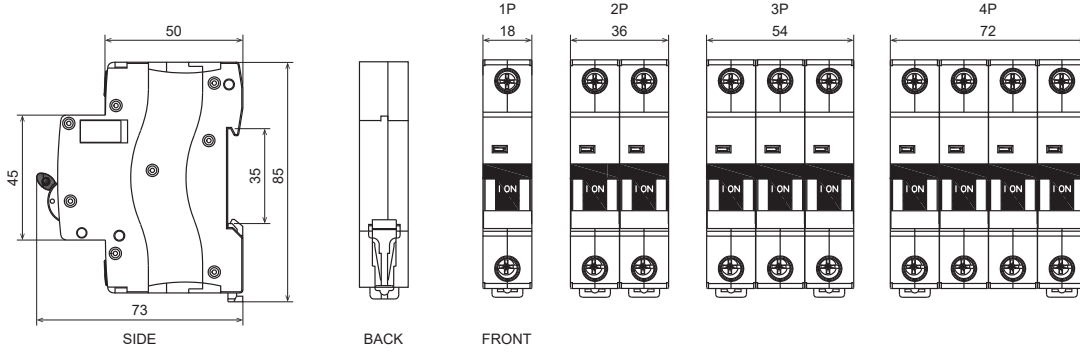


C curve

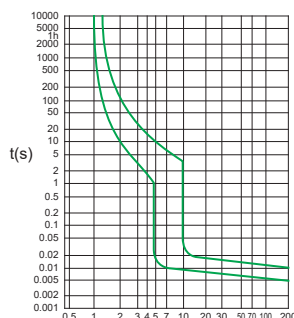


D curve

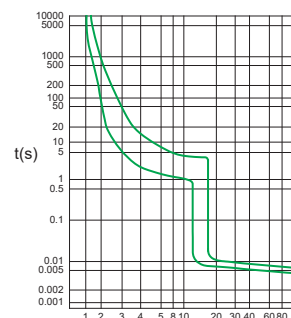
BCL63H0□G (Icn=10kA)



B curve

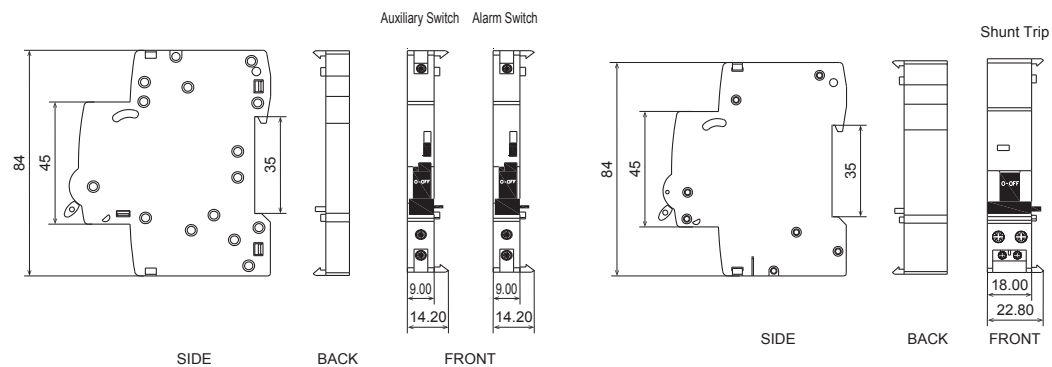


C curve



D curve

Accessories



MCBn : Miniature Circuit Breaker (1P+N)

Features

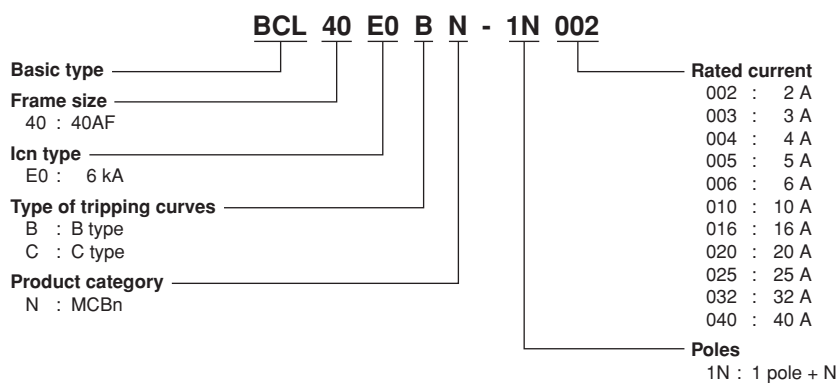
- 6kA standard breaking capacity.
- ON/OFF visual indicator.
 - Clarified a state of ON/OFF visually.
 - On: Red
 - Off: Green
- Instantaneous tripping characteristic.
 - B type: between 3 to 5 times of I_n
for small load such as lighting fixtures, appliances etc.
 - C type: between 5 to 10 times of I_n
for general load such as illumination, fluorescent, inductive etc.



Specifications

Part numbers	BCL40E0□N-1N□□□
Number of poles	1P + N (Neutral on Left side)
Rated impulse withstand voltage (Uimp)	4.0 kV
Rated insulation voltage (Ui)	500 V
Rated Current (In)	2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40 A
Rated Voltage (Un)	1 pole : AC230/240 V ~
Breaking Capacity (Icn)	6 kA (=Ics)
Rated Frequency	50/60 Hz
Tripping Characteristic	B type : 3 ~ 5 I_n , C type : 5 ~ 10 I_n
Electrical Endurance	10,000 cycles
Mechanical Endurance	20,000 cycles
Calibration Temperature	30 °C
Operation Temperature	-25 °C to 45 °C
Protection Degree	IP20
Cable Termination	16 mm ² Maximum
Torque of Screw	1.2 N•m
Standard	IEC/EN 60898-1

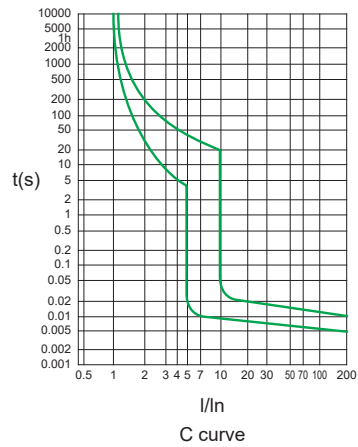
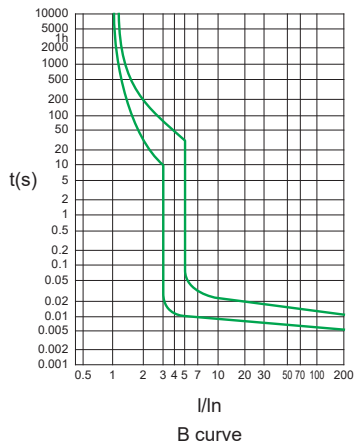
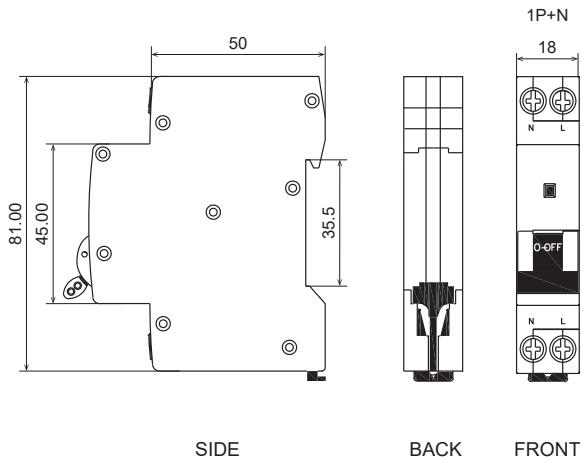
Part number nomenclature



Map of MCBn part number's

In	1 pole + N	
	B type	C type
2	BCL40E0BN-1N002	BCL40E0CN-1N002
3	BCL40E0BN-1N003	BCL40E0CN-1N003
4	BCL40E0BN-1N004	BCL40E0CN-1N004
5	BCL40E0BN-1N005	BCL40E0CN-1N005
6	BCL40E0BN-1N006	BCL40E0CN-1N006
10	BCL40E0BN-1N010	BCL40E0CN-1N010
16	BCL40E0BN-1N016	BCL40E0CN-1N016
20	BCL40E0BN-1N020	BCL40E0CN-1N020
25	BCL40E0BN-1N025	BCL40E0CN-1N025
32	BCL40E0BN-1N032	BCL40E0CN-1N032
40	BCL40E0BN-1N040	BCL40E0CN-1N040

Dimensions and tripping curves



RCBO : Residual Current operated Circuit Breaker with integral Overcurrent protection

RCBO - Add on block type

■ Features

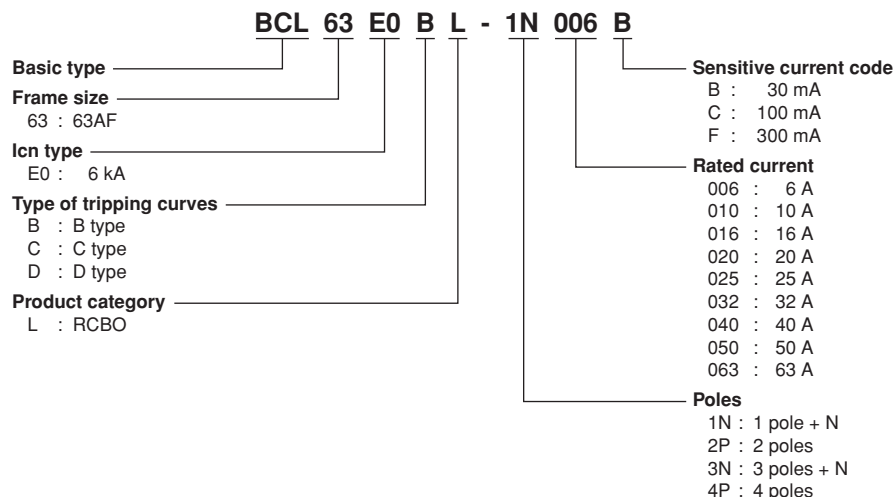
- 6kA standard breaking capacity.
- ON/OFF visual indicator.
 - Clarified a state of ON/OFF visually.
 - On: Red
 - Off: Green
- Instantaneous tripping characteristic.
 - B type: between 3 to 5 times of I_n for small load such as lighting fixtures, appliances etc.
 - C type: between 5 to 10 times of I_n for general load such as Illumination, fluorescent, inductive etc.
 - D type: between 10 to 20 times of I_n for industry high inrush current load such as motors, machines etc.
- MCB function + Detection of imbalance currents such as leakage current and send a signal internally to trip circuit.



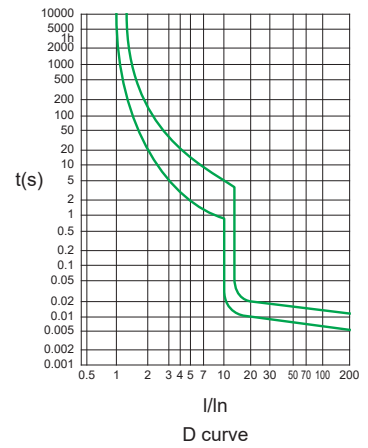
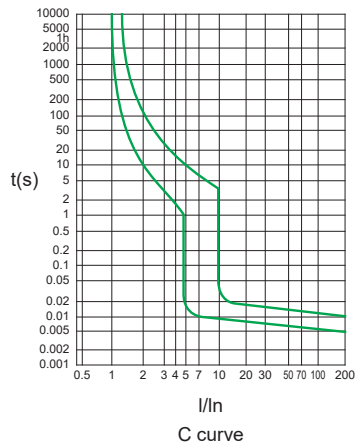
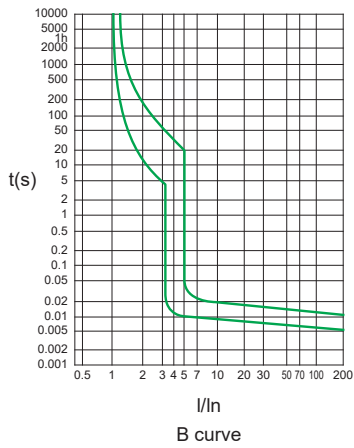
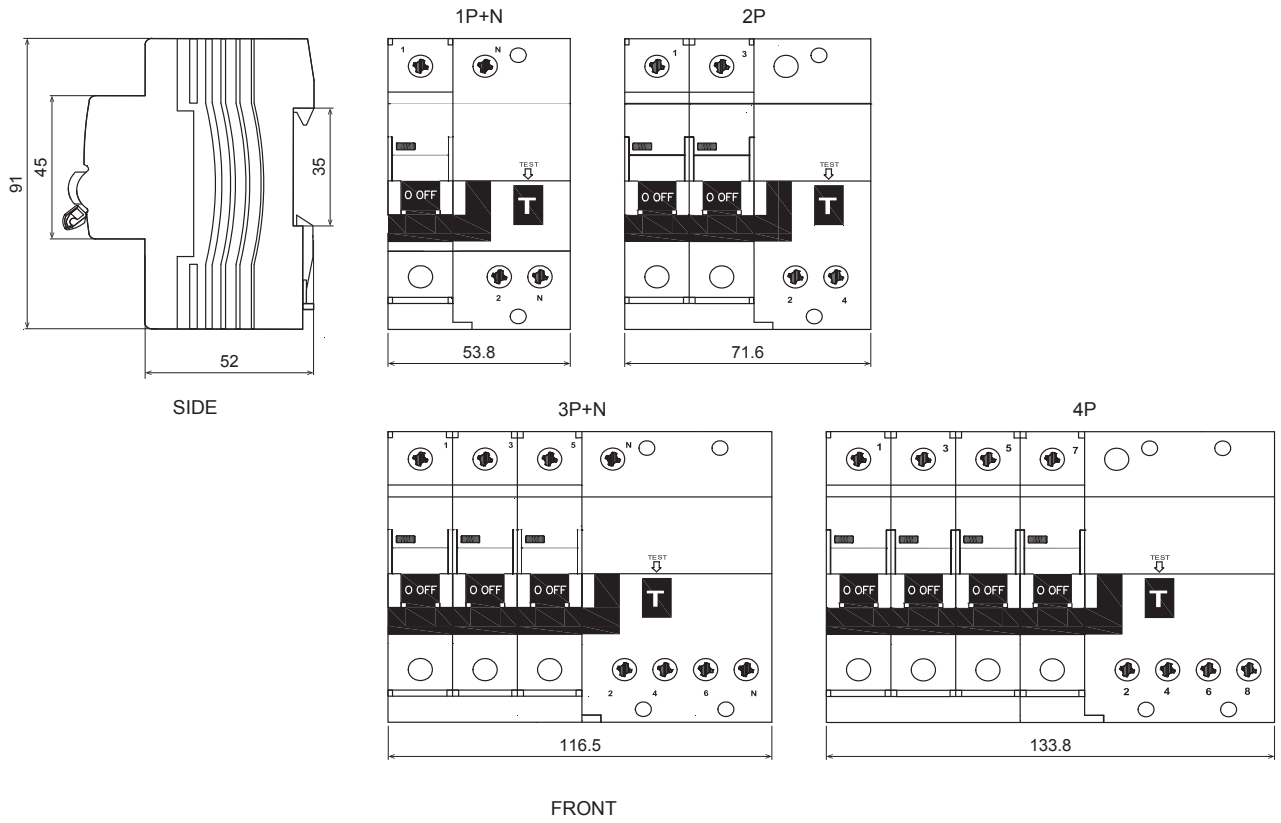
■ Specifications

Part numbers	BCL63E0□L			
	-1N□□□◆	-2P□□□◆	-3N□□□◆	-4P□□□◆
Number of poles	1P + N	2P	3P+N	4P
Sensitive current ($I_{\Delta n}$)	30 mA, 100 mA, 300 mA			
Residual current Characteristic	type AC			
Rated Current (I_n)	6, 10, 16, 20, 25, 32, 40, 50, 63 A			
Rated Voltage (U_n)	AC230/400 V ~			
Breaking Capacity (I_{cn})	6 kA (=Ics)			
Rated Frequency	50/60 Hz			
Tripping Characteristic	B type : 3 ~ 5 I_n C type : 5 ~ 10 I_n D type : 10 ~ 20 I_n			
Electrical Endurance	4,000 cycles			
Mechanical Endurance	8,000 cycles			
Calibration Temperature	30 °C			
Operation Temperature	-25 °C to 55 °C			
Protection Degree	IP20			
Cable Termination	Rigid conductor: 35 mm ² Maximum Flexible conductor: 25 mm ² Maximum			
Torque of Screw	2.5 N•m			
Standard	IEC/EN 61009-1			

■ Part number nomenclature



■ Dimensions and tripping curves



RCBO - 2 Poles module type

Features

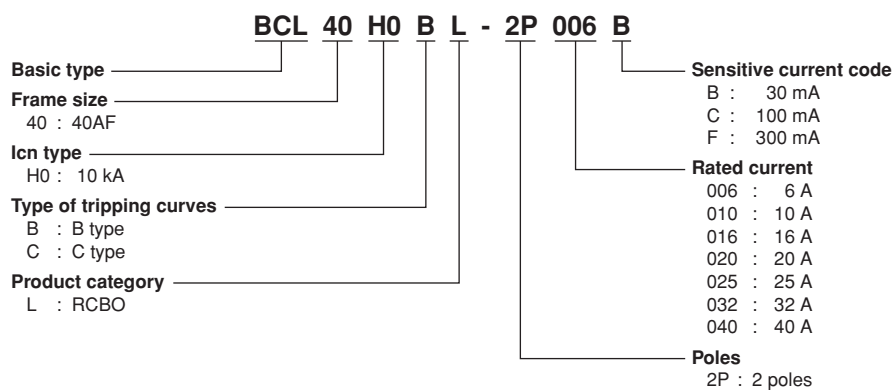
- 10kA high qualified breaking capacity.
- ON/OFF visual indicator.
 - Clarified a state of ON/OFF visually.
 - On: Red
 - Off: Green
- Instantaneous tripping characteristic.
 - B type: between 3 to 5 times of I_n for small load such as lighting fixtures, appliances etc.
 - C type: between 5 to 10 times of I_n for general load such as illumination, fluorescent, inductive etc.
- MCB function + Detection of imbalance currents such as leakage current and send a signal internally to trip circuit.



Specifications

Part numbers	BCL40H0□L-2P□□□◆
Number of poles	1P + N (2P module)
Sensitive current ($I_{\Delta n}$)	30 mA, 100 mA, 300 mA
Residual current Characteristic	type AC
Rated Current (I_n)	6, 10, 16, 20, 25, 32, 40 A
Rated Voltage (U_n)	AC240 V
Breaking Capacity (I_{cn})	10 kA
Rated Frequency	50/60 Hz
Tripping Characteristic	B type : 3 ~ 5 I_n , C type : 5 ~ 10 I_n
Electrical Endurance	4,000 cycles
Mechanical Endurance	8,000 cycles
Calibration Temperature	30 °C
Operation Temperature	-25 °C to 55 °C
Protection Degree	IP20
Cable Termination	Rigid conductor: 35mm ² Maximum Flexible conductor: 25mm ² Maximum
Torque of Screw	2.5 N•m
Standard	IEC/EN 61009-1

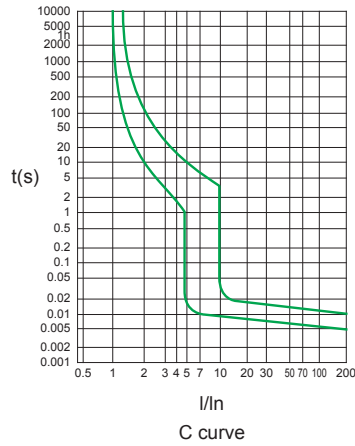
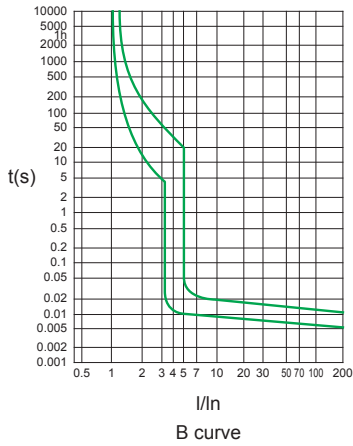
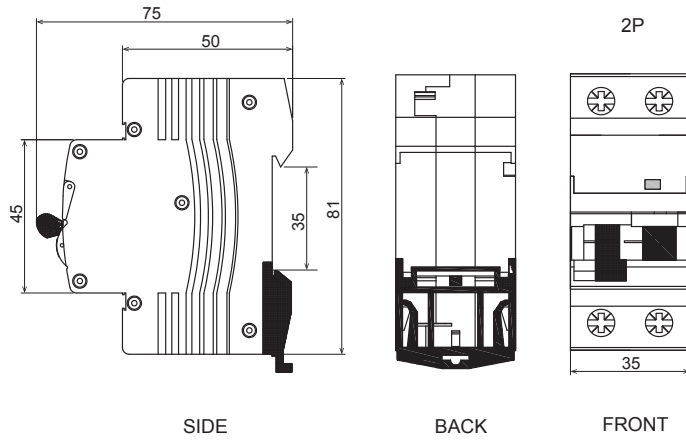
Part number nomenclature



Map of part number's

2 poles module						
In	B type			C type		
	30mA	100mA	300mA	30mA	100mA	300mA
6	BCL40H0BL-2P006B	BCL40H0BL-2P006C	BCL40H0BL-2P006F	BCL40H0CL-2P006B	BCL40H0CL-2P006C	BCL40H0CL-2P006F
10	BCL40H0BL-2P010B	BCL40H0BL-2P010C	BCL40H0BL-2P010F	BCL40H0CL-2P010B	BCL40H0CL-2P010C	BCL40H0CL-2P010F
16	BCL40H0BL-2P016B	BCL40H0BL-2P016C	BCL40H0BL-2P016F	BCL40H0CL-2P016B	BCL40H0CL-2P016C	BCL40H0CL-2P016F
20	BCL40H0BL-2P020B	BCL40H0BL-2P020C	BCL40H0BL-2P020F	BCL40H0CL-2P020B	BCL40H0CL-2P020C	BCL40H0CL-2P020F
25	BCL40H0BL-2P025B	BCL40H0BL-2P025C	BCL40H0BL-2P025F	BCL40H0CL-2P025B	BCL40H0CL-2P025C	BCL40H0CL-2P025F
32	BCL40H0BL-2P032B	BCL40H0BL-2P032C	BCL40H0BL-2P032F	BCL40H0CL-2P032B	BCL40H0CL-2P032C	BCL40H0CL-2P032F
40	BCL40H0BL-2P040B	BCL40H0BL-2P040C	BCL40H0BL-2P040F	BCL40H0CL-2P040B	BCL40H0CL-2P040C	BCL40H0CL-2P040F

Dimensions and tripping curves



Map of part number's

Bottom wire type

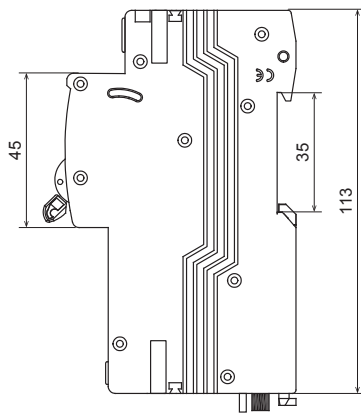
In	1 pole module					
	B type			C type		
	30mA	100mA	300mA	30mA	100mA	300mA
6	BCL40E0BLB-1N006B	BCL40E0BLB-1N006C	BCL40E0BLB-1N006F	BCL40E0CLB-1N006B	BCL40E0CLB-1N006C	BCL40E0CLB-1N006F
10	BCL40E0BLB-1N010B	BCL40E0BLB-1N010C	BCL40E0BLB-1N010F	BCL40E0CLB-1N010B	BCL40E0CLB-1N010C	BCL40E0CLB-1N010F
16	BCL40E0BLB-1N016B	BCL40E0BLB-1N016C	BCL40E0BLB-1N016F	BCL40E0CLB-1N016B	BCL40E0CLB-1N016C	BCL40E0CLB-1N016F
20	BCL40E0BLB-1N020B	BCL40E0BLB-1N020C	BCL40E0BLB-1N020F	BCL40E0CLB-1N020B	BCL40E0CLB-1N020C	BCL40E0CLB-1N020F
25	BCL40E0BLB-1N025B	BCL40E0BLB-1N025C	BCL40E0BLB-1N025F	BCL40E0CLB-1N025B	BCL40E0CLB-1N025C	BCL40E0CLB-1N025F
32	BCL40E0BLB-1N032B	BCL40E0BLB-1N032C	BCL40E0BLB-1N032F	BCL40E0CLB-1N032B	BCL40E0CLB-1N032C	BCL40E0CLB-1N032F
40	BCL40E0BLB-1N040B	BCL40E0BLB-1N040C	BCL40E0BLB-1N040F	BCL40E0CLB-1N040B	BCL40E0CLB-1N040C	BCL40E0CLB-1N040F

Top wire type

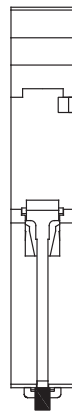
In	1 pole module					
	B type			C type		
	30mA	100mA	300mA	30mA	100mA	300mA
6	BCL40E0BLT-1N006B	BCL40E0BLT-1N006C	BCL40E0BLT-1N006F	BCL40E0CLT-1N006B	BCL40E0CLT-1N006C	BCL40E0CLT-1N006F
10	BCL40E0BLT-1N010B	BCL40E0BLT-1N010C	BCL40E0BLT-1N010F	BCL40E0CLT-1N010B	BCL40E0CLT-1N010C	BCL40E0CLT-1N010F
16	BCL40E0BLT-1N016B	BCL40E0BLT-1N016C	BCL40E0BLT-1N016F	BCL40E0CLT-1N016B	BCL40E0CLT-1N016C	BCL40E0CLT-1N016F
20	BCL40E0BLT-1N020B	BCL40E0BLT-1N020C	BCL40E0BLT-1N020F	BCL40E0CLT-1N020B	BCL40E0CLT-1N020C	BCL40E0CLT-1N020F
25	BCL40E0BLT-1N025B	BCL40E0BLT-1N025C	BCL40E0BLT-1N025F	BCL40E0CLT-1N025B	BCL40E0CLT-1N025C	BCL40E0CLT-1N025F
32	BCL40E0BLT-1N032B	BCL40E0BLT-1N032C	BCL40E0BLT-1N032F	BCL40E0CLT-1N032B	BCL40E0CLT-1N032C	BCL40E0CLT-1N032F
40	BCL40E0BLT-1N040B	BCL40E0BLT-1N040C	BCL40E0BLT-1N040F	BCL40E0CLT-1N040B	BCL40E0CLT-1N040C	BCL40E0CLT-1N040F

Dimensions and tripping curves

RCBO 1P+N
(Bottom Wire Type)



SIDE

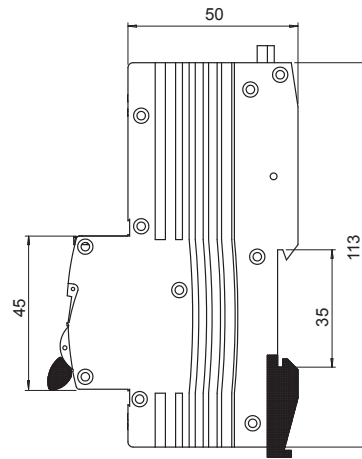


BACK



FRONT

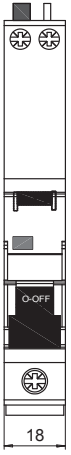
RCBO 1P+N
(Top Wire Type)



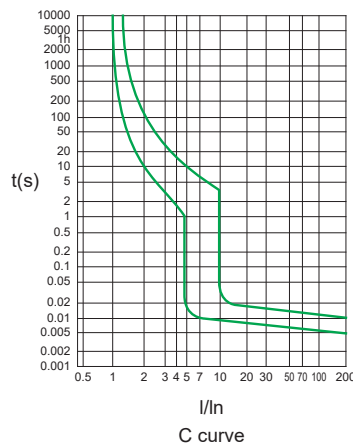
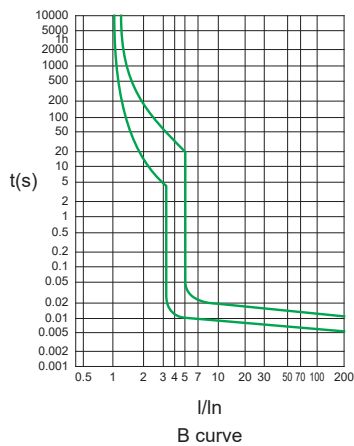
SIDE



BACK



FRONT



RCCB : Residual Current operated Circuit Breaker without integral Overcurrent protection

Features

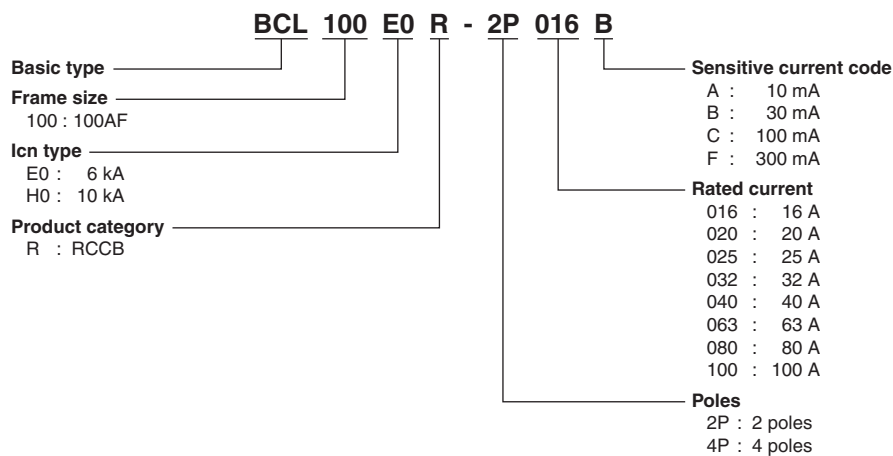
- 6kA standard breaking capacity.
- ON/OFF visual indicator.
 - Clarified a state of ON/OFF visually.
 - On: Red
 - Off: Green
- Detection of imbalance currents such as leakage current and send a signal internally to trip circuit.



Specifications

Part numbers	BCL100□0R	
	-2P□□□◆	-4P□□□◆
Number of poles	2P	4P
Sensitive current (I _{Δn})	10 mA, 30 mA, 100 mA, 300 mA	10 mA, 30 mA, 100 mA, 300 mA (16 ~ 32 A) 30 mA, 100 mA, 300 mA (40 ~ 100 A)
Residual current Characteristic	type AC	
Rated Current (I _n)	16, 20, 25, 32, 40, 63, 80, 100 A	
Rated Voltage (U _n)	Phase to neutral AC240 V / Phase to Phase AC415 V	
Breaking Capacity (I _{cn})	6 kA, 10 kA	
Rated Frequency	50/60 Hz	
Rated Residual Breaking Capacity	500 A (16 - 40 A) 630 A (63 A) 800 A (80 A) 1000 A (100 A)	
Electrical Endurance	4,000 cycles	
Mechanical Endurance	8,000 cycles	
Calibration Temperature	30 °C	
Operation Temperature	-25 °C to 55 °C	
Protection Degree	IP20	
Cable Termination	Rigid conductor: 25mm ² Maximum Flexible conductor: 16mm ² Maximum	
Torque of Screw	2.5 N•m	
Standard	IEC/EN 61008-1	

Part number nomenclature



Map of part number's

6kA (BCL100E0R)

2 poles module				
	10mA	30mA	100mA	300mA
16	BCL100E0R-2P016A	BCL100E0R-2P016B	BCL100E0R-2P016C	BCL100E0R-2P016F
20	BCL100E0R-2P020A	BCL100E0R-2P020B	BCL100E0R-2P020C	BCL100E0R-2P020F
25	BCL100E0R-2P025A	BCL100E0R-2P025B	BCL100E0R-2P025C	BCL100E0R-2P025F
32	BCL100E0R-2P032A	BCL100E0R-2P032B	BCL100E0R-2P032C	BCL100E0R-2P032F
40	BCL100E0R-2P040A	BCL100E0R-2P040B	BCL100E0R-2P040C	BCL100E0R-2P040F
63	BCL100E0R-2P063A	BCL100E0R-2P063B	BCL100E0R-2P063C	BCL100E0R-2P063F
80	BCL100E0R-2P080A	BCL100E0R-2P080B	BCL100E0R-2P080C	BCL100E0R-2P080F
100	BCL100E0R-2P100A	BCL100E0R-2P100B	BCL100E0R-2P100C	BCL100E0R-2P100F

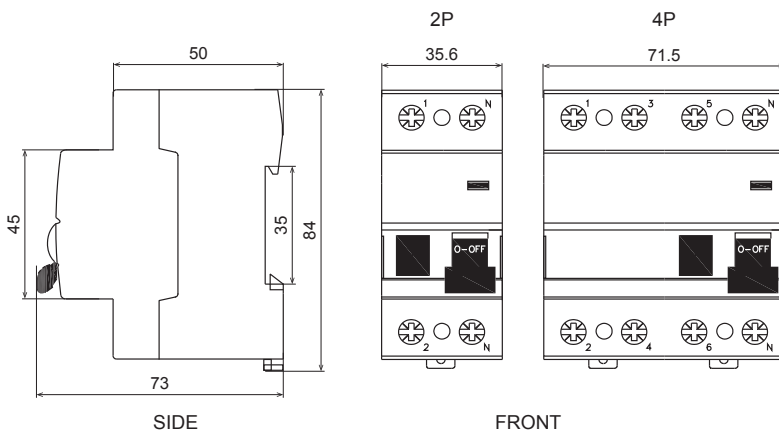
4 poles module				
	10mA	30mA	100mA	300mA
16	BCL100E0R-4P016A	BCL100E0R-4P016B	BCL100E0R-4P016C	BCL100E0R-4P016F
20	BCL100E0R-4P020A	BCL100E0R-4P020B	BCL100E0R-4P020C	BCL100E0R-4P020F
25	BCL100E0R-4P025A	BCL100E0R-4P025B	BCL100E0R-4P025C	BCL100E0R-4P025F
32	BCL100E0R-4P032A	BCL100E0R-4P032B	BCL100E0R-4P032C	BCL100E0R-4P032F
40	-	BCL100E0R-4P040B	BCL100E0R-4P040C	BCL100E0R-4P040F
63	-	BCL100E0R-4P063B	BCL100E0R-4P063C	BCL100E0R-4P063F
80	-	BCL100E0R-4P080B	BCL100E0R-4P080C	BCL100E0R-4P080F
100	-	BCL100E0R-4P100B	BCL100E0R-4P100C	BCL100E0R-4P100F

10kA (BCL100H0R)

2 poles module				
	10mA	30mA	100mA	300mA
16	BCL100H0R-2P016A	BCL100H0R-2P016B	BCL100H0R-2P016C	BCL100H0R-2P016F
20	BCL100H0R-2P020A	BCL100H0R-2P020B	BCL100H0R-2P020C	BCL100H0R-2P020F
25	BCL100H0R-2P025A	BCL100H0R-2P025B	BCL100H0R-2P025C	BCL100H0R-2P025F
32	BCL100H0R-2P032A	BCL100H0R-2P032B	BCL100H0R-2P032C	BCL100H0R-2P032F
40	BCL100H0R-2P040A	BCL100H0R-2P040B	BCL100H0R-2P040C	BCL100H0R-2P040F
63	BCL100H0R-2P063A	BCL100H0R-2P063B	BCL100H0R-2P063C	BCL100H0R-2P063F
80	BCL100H0R-2P080A	BCL100H0R-2P080B	BCL100H0R-2P080C	BCL100H0R-2P080F
100	BCL100H0R-2P100A	BCL100H0R-2P100B	BCL100H0R-2P100C	BCL100H0R-2P100F

4 poles module				
	10mA	30mA	100mA	300mA
16	BCL100H0R-4P016A	BCL100H0R-4P016B	BCL100H0R-4P016C	BCL100H0R-4P016F
20	BCL100H0R-4P020A	BCL100H0R-4P020B	BCL100H0R-4P020C	BCL100H0R-4P020F
25	BCL100H0R-4P025A	BCL100H0R-4P025B	BCL100H0R-4P025C	BCL100H0R-4P025F
32	BCL100H0R-4P032A	BCL100H0R-4P032B	BCL100H0R-4P032C	BCL100H0R-4P032F
40	-	BCL100H0R-4P040B	BCL100H0R-4P040C	BCL100H0R-4P040F
63	-	BCL100H0R-4P063B	BCL100H0R-4P063C	BCL100H0R-4P063F
80	-	BCL100H0R-4P080B	BCL100H0R-4P080C	BCL100H0R-4P080F
100	-	BCL100H0R-4P100B	BCL100H0R-4P100C	BCL100H0R-4P100F

Dimensions and tripping curves



SCPD Table

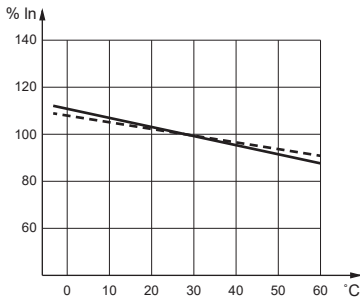
RCCB Rating (A)	FUJI MCB					
	16	20	25	32	40	63
16	✓					
20	✓	✓				
25		✓	✓			
32				✓		
40					✓	
63						✓

Technical data

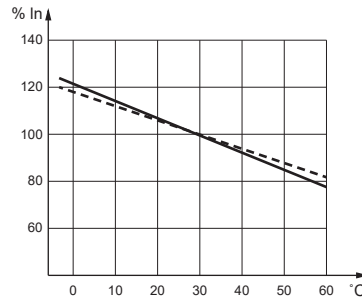
■ Influence of ambient air temperature on the rated current

- The thermal calibration of the MCB's was carried out at an ambient temperature of 30 degree C.
- Ambient temperatures different from 30 degree C influence the bimetal and this results in earlier or later thermal tripping.

0.5 - 6 A

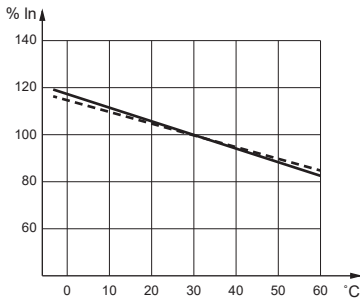


10 A

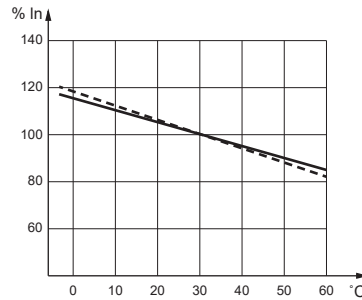


—— : 1P (single pole)
 - - - - : mP (multi-pole)

16 - 40 A



50 - 63 A



■ No of devices influence in free air within a distribution board or switchboard

- For devices installed with other modular devices in the same board, a correction factor (K) shall be applied relative to the mounting situation of the MCB's, the ambient temperature and the number of main circuits in the installation.

No of devices	Factor K ¹⁾
2 or 3	0.9
4 or 5	0.8
6 or 9	0.7
10 or more	0.6

Note 1) Applicable for MCB's working at maximum rated currents.

Example

Within a distribution board consist of

MCB spec :	2 poles, 16A
Number of MCB's :	8 pcs
Operating ambient temperature :	45 degree C



The Correction factor K:	0.7
--------------------------	-----



For use in 8 circuit (MCB's) installation	$16A \times 0.7 = 11.2 A$
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For working at 45 degree C	$11.2A \times 0.9 = 10.1 A$
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- Customers are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.
- For safe operation, wiring should be conducted only by qualified engineers who have sufficient technical knowledge about electrical work or wiring.
- Follow the regulations of industrial wastes when the product is to be discarded.
- For further questions, please contact your Fuji sales representative or Fuji Electric FA.

 **Fuji Electric FA Components & Systems Co., Ltd.**

No.5-45 Minami 1-chome Konosu-shi Saitama-ken, 369-0192, Japan

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