

Miniature Circuit Breakers B4/B6/B10, Residual Current Devices & Isolating Switches

The IMO range of miniature circuit breakers have been designed for protection of electrical installations against overload and short circuits and are manufactured in accordance with IEC 60898-1

MCB Features

- Handle central-tripping function for circuit fault indicating
- New front design; cover and handle in arc shape.
- Contact position indicating window; transparent cover to carry label
- High short circuit capacity
- Applicable to terminal and Pin/Fork type busbar connection
- Finger protected connection terminals
- Handle padlock device



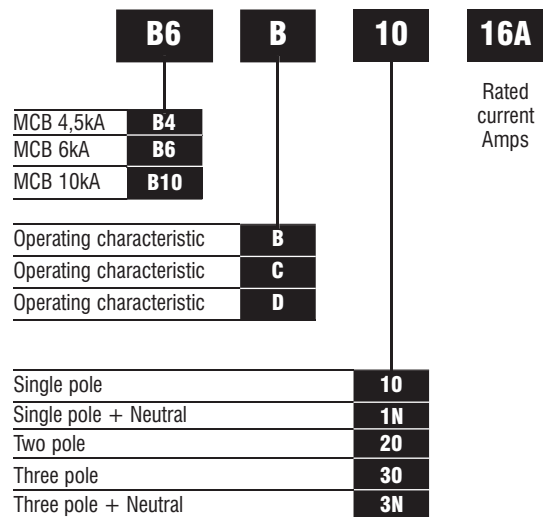
Tripping characteristics in accordance with B, C and D type curves

- Curve B: 3-5 I_n Certification: B4/B6: Semko / CE
- Curve C: 5-10 I_n B10: VDE* / Semko / CE
- Curve D: 10-20 I_n

Specifications

In accordance with: IEC 60898-1
Certification: CE, SEMKO, VDE* (only with B10, C & D curve; 1P/2P/3P, 6 to 40A) 3P, 3P+N
Pole composition: 1P, 1P+N, 2P, 3P, 3P+N
Tripping Curve: B, C, D
Calibration temperature: +30°C
Rated frequency: 50/60Hz
Rated operational voltage: 230/400VAC ; 60VDC Max
Rated insulation voltage: 250VAC / 500VAC
Rated impulse withstand voltage: 6.2kV
Rated short circuit breaking capacity as per IEC 60898-1 and IEC60947-2:
B4 : 1P+N, C curve : 4.5kA
B6 : 1P, B curve: 6kA
B10 : 1P/2P/3P/3P+N, C & D curve: 10kA
Mechanical lifetime > 20,000 cycles
Electrical lifetime > 8,000 cycles
Fastening torque: 2.0 Nm (B4 type: 1.2Nm)
Terminal capacity: 35mm ² solid, 25mm ² stranded conductor (10mm ² for 1P+N)
Mounting on rail EN 60715 (EN 50022)
Protection degree: IP20
Operating temperature: -25°C - +55°C

Options and ordering codes



Selection chart

█ Please contact IMO █ 4.5kA █ 6kA █ 10kA

Type	B operating characteristics			C operating characteristics			D operating characteristics				
	1	1N	2	3	3N	1	2	3			
Rated current A mps	2	4	6	10	16	20	25	32	40	50	63
Weight (g/pc)	100	100	200	200	300	400	100	200	300		
Packing(Qty)	12	12	6	6	4	3	12	6	4		

Miniature Circuit Breakers B4/B6/B10

Accessories

Auxiliary Switch B10-F3

for monitoring the status of the protection device (open/closed)
 1 pole changeover (for C & D curve only)
 Rated current : 6A @ 230VAC & 24VDC or 3A @ 400VAC
 Dielectric Strength : 2000V/1min
 Terminal capacity : 1-4mm²
 Mounting on the Left side

Shunt trip B10-S3

Shunt Trip for remotely switch off the protection device
 Rating voltage U_e : AC 110V / 230V / 400V
 Operating voltage : 70%~110% X U_e
 Mounting on the Left side

Busbars

Description	Ref.
Busbar 1 Pole, 100A, Fork Type, 1M	B10BB1F100-1M
Busbar 3 Pole, 100A, Fork Type, 1M	B10BB3F100-1M
Busbar 1 Pole, 100A, Pin Type, 1M	B10BB1P100-1M
Busbar 3 Pole, 100A, Pin Type, 1M	B10BB3P100-1M
End Cap 3 Pole (Fork type only)	B10BBCAP3F100

Terminal adapter BA1

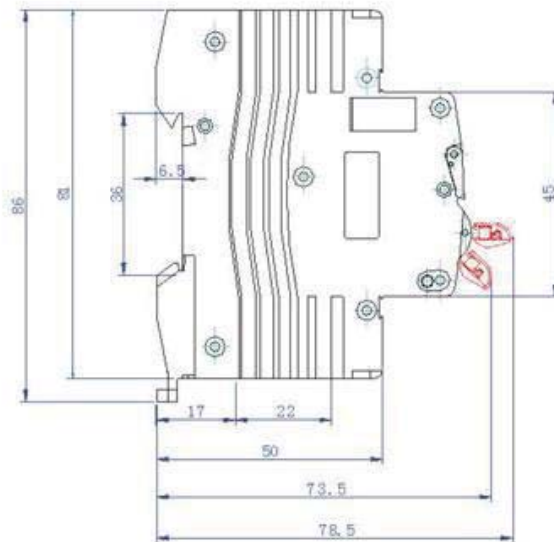
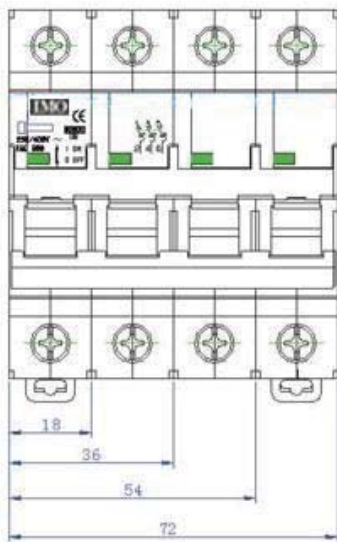
Locking device B10-LOCK

4mm padlock max diameter, non included

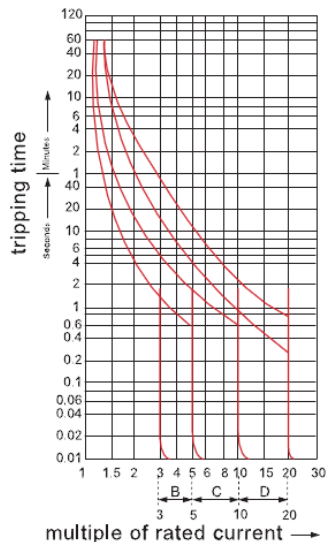
Locking device B10-TERM

Dimensions mm

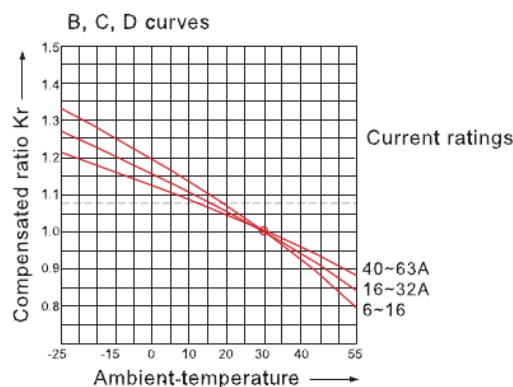
Miniature Circuit Breakers



B, C, D Tripping Curve



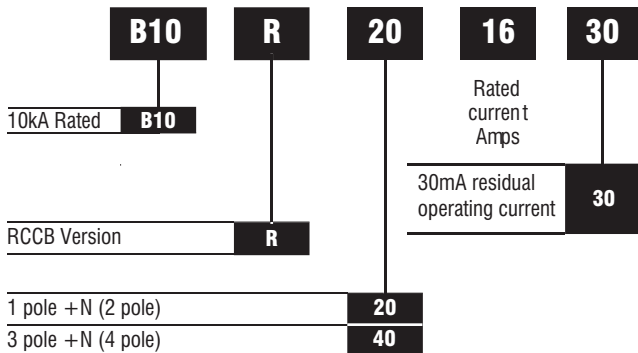
Ambient temperature & Current rating curve



Residual Current Circuit Breakers B10R

The IMO range of Residual Current Circuit Breakers have been designed for protection of electrical installations against earth fault / leakage current and are manufactured in accordance with IEC 61008-1.

Options and ordering codes



Specification

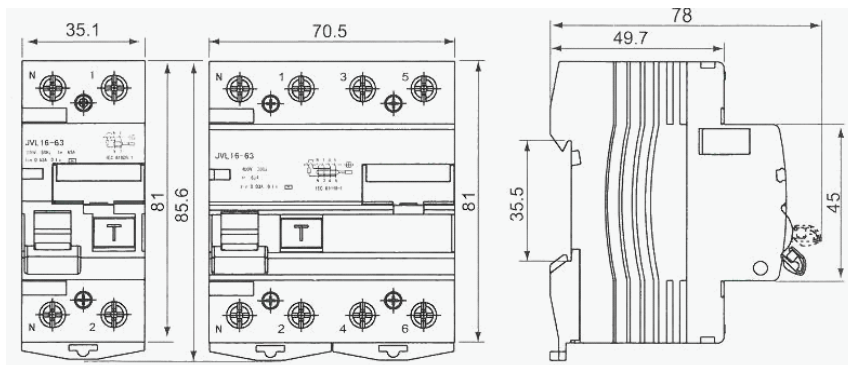
In accordance with: IEC 61008-1
Certification: CE, SEMKO
Pole composition: 2P, 4P
Rated current : 10 A (only 2P), 16A, 25A, 32A, 40A, 63A
Residual current characteristics: AC
Calibration Temperature: +30°C
Rated frequency: 50/60Hz
Rated voltage: 230VAC / 400VAC
Rated residual operating current $I_{\Delta n}$: 30 mA
Residual tripping current range : 0.5 $I_{\Delta n}$ ~ 1 $I_{\Delta n}$
Rated conditional short circuit current : 10 kA
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity: 35mm ² solid, 25mm ² stranded conductor
Mounting on rail EN 60715 (EN 50022)
Protection degree: IP20
Operating temperature: -25°C - +55°C

Selection chart

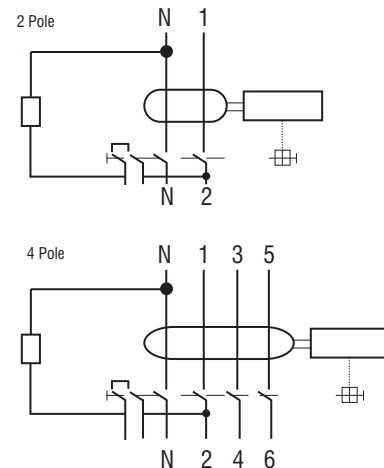
10kA

Type	operating characteristics	
	2N	3N
Poles	10	
	16	
	25	
	32	
	40	
	63	
Rated current Amps		
Weight (g/pc)	206	412
Packing(Qty)	6	3

Overall & Installation Dimensions



Wiring Diagram



Residual Current Circuit Breakers With Overload Protection

The IMO range of Residual Current-Circuit Breakers with Overload have been designed for protection of electrical installations against earth fault / leakage current, overload and short circuit and are manufactured in accordance with IEC 61009.

RCBO Features

- Provides protection against earth fault / leakage current, overload, short circuit and function of isolation
- Elegant appearance; cover and handle in arc shape.
- Contact position indicating window; transparent cover to carry label
- High short circuit current withstand capacity
- Applicable to terminal and Pin/Fork type busbar connection
- Finger protected connection terminals
- Compatible with MCB accessories range
- Handle padlock device

Tripping characteristics in accordance with B, C and D type curves

- Curve B: 3-5 I_n
- Curve C: 5-10 I_n
- Curve D: 10-20 I_n

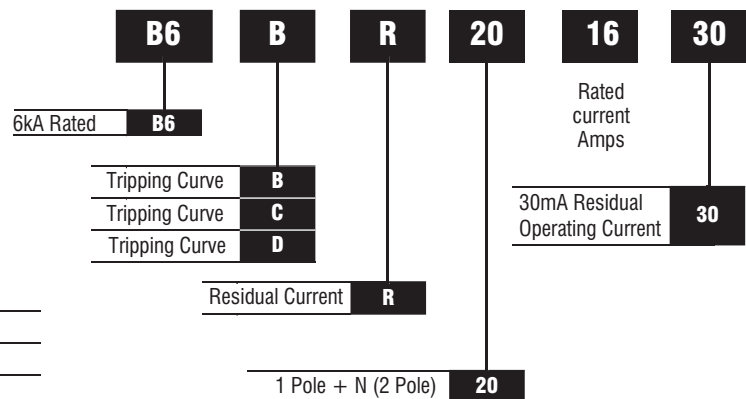
Specifications

In accordance with: IEC 61009
Certification: CE, SEMKO
Pole composition: 2P
Residual current characteristics: AC
Tripping Curve: B, C, D
Calibration temperature: +30°C
Rated current : 6A, 10 A, 16A, 20A, 25A, 32A, 40A
Rated short circuit capacity : 6 kA
Rated frequency: 50/60Hz
Rated voltage: 230VAC
Rated residual operating current $I_{\Delta n}$: 30 mA
Residual tripping current range : 0.5 $I_{\Delta n}$ ~ 1 $I_{\Delta n}$
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity: 35mm ² solid, 25mm ² stranded conductor
Mounting on rail EN 60715 (EN 50022)
Protection degree: IP20
Operating temperature range: -25°C - +55°C

For Dimensions refer to RCCB Data.
For Tripping Curve refer to MCB.



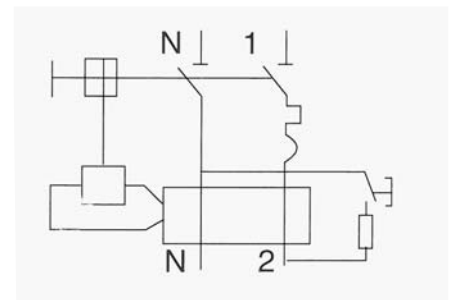
Options and ordering codes



Selection chart

Rated current A mps	operating characteristics		
	B	C	D
6	Available	Available	Available
10	Available	Available	Available
16	Available	Available	Available
20	Available	Available	Available
25	Available	Available	Available
32	Available	Available	Available
40	Available	Available	Available
Weight (g/pc)	210		
Packing(Qty)	6		

Wiring Diagram



Isolating Switch

The IMO range of isolating switch have been designed to isolate safely your electrical circuit from the main supply and are manufactured in accordance with IEC 60947-3.

- Capable of switch electric circuit with load
- Elegant appearance; cover and handle in arc shape
- Contact position indicating window; transparent cover to carry label
- Applicable to terminal and Pin/Fork type busbar connection
- Finger protected connection terminals
- Compatible with MCB accessories range
- Handle padlock device



Specification

In accordance with: IEC 60947-3
Certification: CE, SEMKO (63 and 125A only)
Pole composition: 1P / 2P / 3P / 4P
Rated current : 63A / 100A / 125A
Rated voltage: AC 230 / 400 V
Rated frequency: 50/60Hz
Rated short circuit capacity : 6 kA (3kA for 100A version)
Electrical lifetime > 10,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity: 35mm ² solid, 25mm ² stranded conductor
Protection degree: IP20

Selection chart

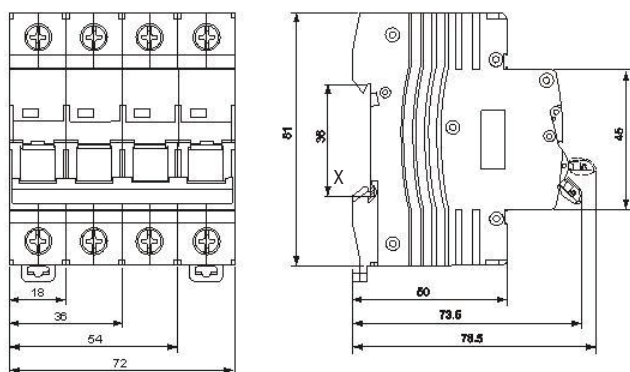
■ 3kA ■ 6 kA ▨ Please contact IMO

Poles	3kA	6kA	Conatct IMO	
	1	2	3	4
Rated current Amps	63	▨	▨	▨
	100	▨	▨	▨
	125	▨	▨	▨
Weight (g/pc)	100	200	300	400
Packing(Qty)	12	6	4	3

Options and ordering codes

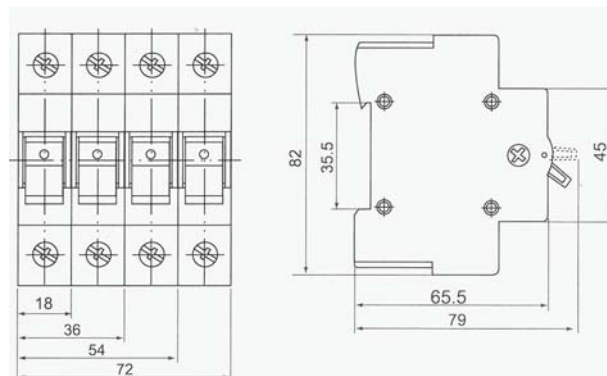
BIS	20	63A
Distribution board Isolating Switch	BIS	
1 Pole	10	
2 Pole	20	
3 Pole	30	
4 Pole	40	
Amps 63A & 125A		63A
Amps 100A (red handle)		100C

Dimensions (mm) for 63A & 125A version



Rating	X
63A	81mm
125A	90mm

Dimensions (mm) for 100A version



Residual Current Circuit Breakers With Overload Protection 1P+N Single Module

The IMO range of Residual Current-Circuit Breakers with Overload Protection have been designed for protection of electrical installations against earth fault / leakage current, overload and short circuit and are manufactured in accordance with IEC 61009-1.

RCBO Features

- Provides protection against earth fault / leakage current, overload, short circuit and function of isolation
- Elegant appearance; cover and handle in arc shape.
- Single width module RCBO, 119mm tall
- Contact position indicating window; transparent cover to carry label
- High short circuit current withstand capacity
- Applicable to terminal and Pin/Fork type busbar connection (line input only)
- Finger protected connection terminals
- Compatible with MCB accessories range
- Handle padlock device

Tripping characteristics in accordance with B, C and D type curves

- Curve B: 3-5 I_n
- Curve C: 5-10 I_n
- Curve D: 10-20 I_n

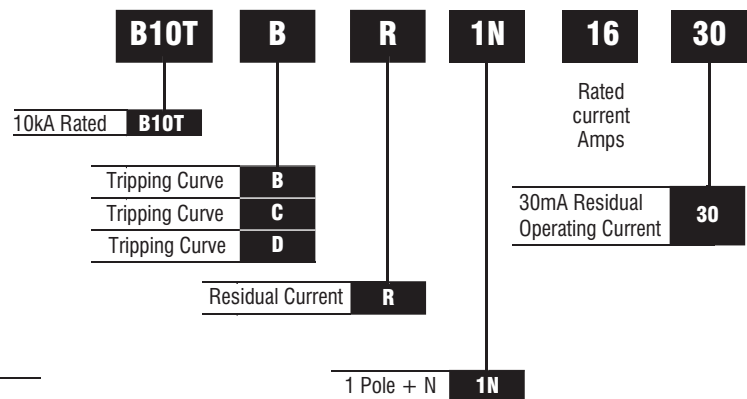
Specifications

In accordance with: IEC 61009-1
Certification: CE, SEMKO
Pole composition: 3P+N
Residual current characteristics: AC
Tripping Curve: B, C, D
Rated current : 6A, 10 A, 16A, 20A, 25A, 32A
Rated short circuit capacity : 10 kA
Calibration Temperature: +30°C
Rated frequency: 50/60Hz
Rated voltage: 230/400VAC
Rated residual operating current $I_{\Delta n}$: 30 mA
Residual tripping current range : 0.5 $I_{\Delta n}$ ~ 1 $I_{\Delta n}$
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity (Live input): 35mm ² solid or 25mm ² stranded
Terminal capacity (output): 10mm ² solid or 6mm ² stranded
Mounting on rail EN 60715 (EN 50022)
Protection degree: IP20
Operating temperature: -25°C - +55°C

Dimensions (mm) for 1P+N: 1 module (18W x 119H x 69D)
For Tripping Curve refer to MCB.



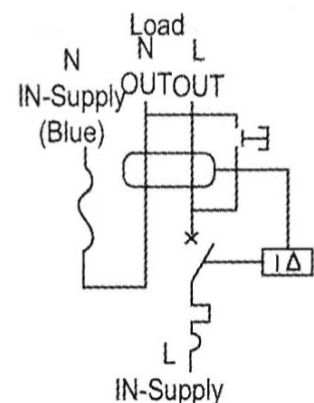
Options and ordering codes



Selection chart

Type	operating characteristics
Poles	1N
Rated current Amps	6
	10
	16
	20
	25
	32
Weight (g/pc)	178

Wiring Diagram



Residual Current Circuit Breakers With Overload Protection 3P+N

The IMO range of Residual Current-Circuit Breakers with Overload have been designed for protection of electrical installations against earth fault / leakage current, overload and short circuit and are manufactured in accordance with IEC 61009-1.

RCBO Features

- Provides protection against earth fault / leakage current, overload, short circuit and function of isolation
- Elegant appearance; cover and handle in arc shape.
- 3P+N version, 5 module width RCBO, 119mm tall
- Contact position indicating window; transparent cover to carry label
- High short circuit current withstand capacity
- Applicable to terminal and Pin/Fork type busbar connection
- Finger protected connection terminals
- Compatible with MCB accessories range
- Handle padlock device



Tripping characteristics in accordance with B, C and D type curves

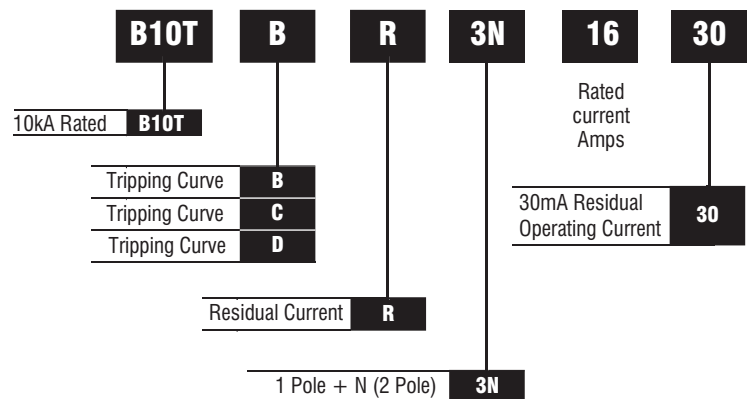
- Curve B: 3-5 I_n
- Curve C: 5-10 I_n
- Curve D: 10-20 I_n

Specifications

In accordance with: IEC 61009-1
Certification: CE, SEMKO
Pole composition: 3P+N
Residual current characteristics: AC
Tripping Curve: B, C, D
Rated current : 6A, 10 A, 16A, 20A, 25A, 32A
Rated short circuit capacity : 10 kA
Calibration Temperature: +30°C
Rated frequency: 50/60Hz
Rated voltage: 230/400VAC
Rated residual operating current $I_{\Delta n}$: 30 mA
Residual tripping current range : 0.5 $I_{\Delta n}$ ~ 1 $I_{\Delta n}$
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity: 35mm ² solid, 25mm ² stranded conductor
Mounting on rail EN 60715 (EN 50022)
Protection degree: IP20
Operating temperature: -25°C - +55°C

Dimensions (mm) for 3P+N: 4 module (total 72W x 81H x 69D) + 1 module (18W x 130H x 69D).
For Tripping Curve refer to MCB.

Options and ordering codes



Selection chart

Type	operating characteristics
Poles	3N
Rated current Amps	6, 10, 16, 20, 25, 32
Weight (g/pc)	500

Wiring Diagram

