IMO

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:

■ Curve C: 5-10 I_n B4/B6: Semko / CE

■ Curve D: 10-20 I_n B10: VDE* / Semko / CE

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: 35mm² solid, 25mm² stranded conductor (10mm² for 1P+N)

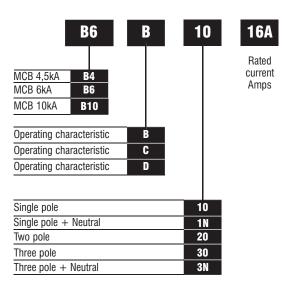
Mounting on rail EN 60715 (EN 50022)

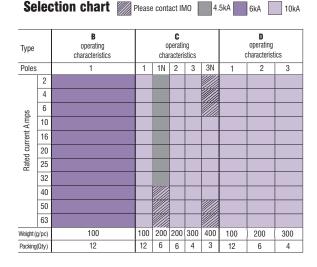
Protection degree: IP20

Operating temperature: -25°c - +55°c



Options and ordering codes







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 Ue : AC 110V / 230V / 400V oving voltage : 70%—110% X Ue

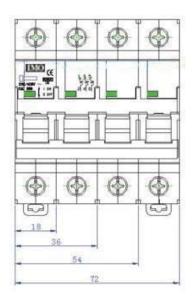
Mounting on the Left side

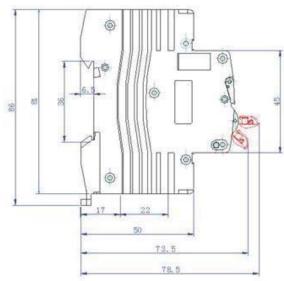
Busbars

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

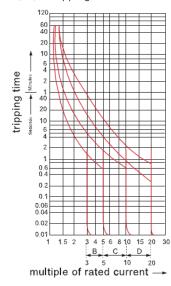
Dimensions mm

Miniature Circuit Breakers

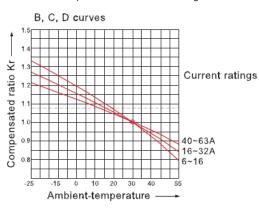




B, C, D Tripping Curve



Ambient temperature & Current rating curve

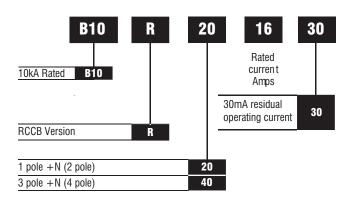




Residual Current Circuit Breakers B10R

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





10kA

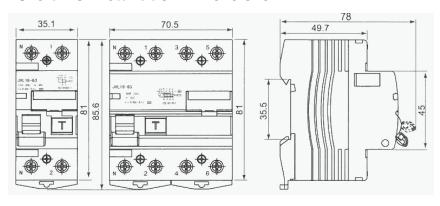
Specification

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∆n : 30 mA
Residual tripping current range : $0.5~\text{l}\Delta n \sim 1~\text{l}\Delta n$
Rated conditional short circuit current : 10 kA
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity: 35mm² solid, 25mm² stranded conductor
Mounting on rail EN 60715 (EN 50022)
Protection degree: IP20
Operating temperature: -25°c - +55°c

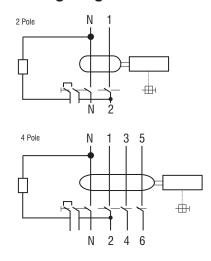
Selection chart

3 ti	U	livii Gilart 🔃	TUKA	
Туре		operating characteristics		
Poles		2N	3N	
"	10			
Rated current Amps	16			
	25			
curr	32			
ated	40			
<u>~</u>	63			
Weight (g/pc)		206	412	
Packing(Qty)		6	3	

Overall & Installation Dimensions



Wiring Diagram



IMO

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

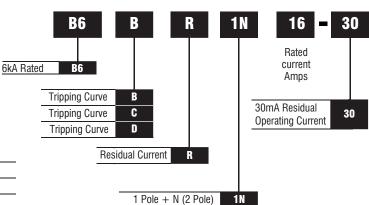
Specifications

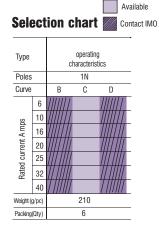
In accordance with: IEC 61009
Certification: CE, SEMKO
Pole composition: 2P
Residual current characteristics: AC
Tripping Curve: B, C, D
Calibration temperature: +30°c
Rated current : 6A, 10 A, 16A, 20A, 25A, 32A, 40A
Rated short circuit capacity : 6 kA
Rated frequency: 50/60Hz
Rated voltage: 230VAC
Rated residual operating current I∆n : 30 mA
Residual tripping current range : $0.5 I\Delta n \sim 1 I\Delta n$
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity: 35mm² solid, 25mm² 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.

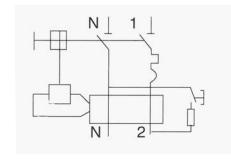


Options and ordering codes





Wiring Diagram

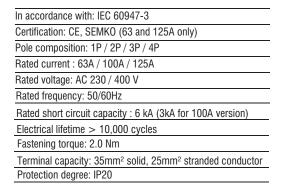


Isolating Switch

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

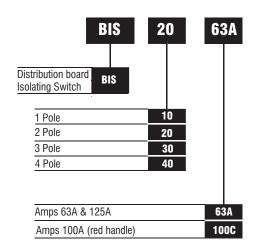
Specification



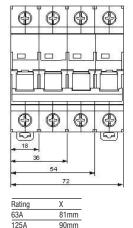
Selection chart

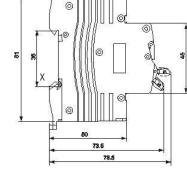
31	kA	6 k/	\	Plea	se conta	act IMO
		3kA	6kA	Conatct IMO		
Poles		1	2	3	4	
rent	63					
l curr mps	100					
Rated current Amps	125					
Weight (g/pc)		100	200	300	400	
Packing(Qty)		12	6	4	3	

Options and ordering codes

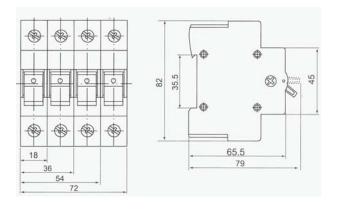


Dimensions (mm) for 63A & 125A version





Dimensions (mm) for 100A version





IMO

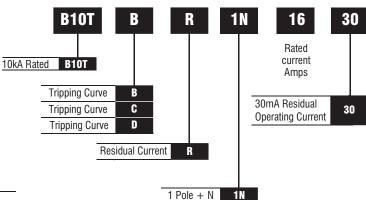
Residual Current Circuit Breakers With Overload Protection 1P+N Single Module

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.
- 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

Options and ordering codes



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∆n : 30 mA
Residual tripping current range : $0.5 I\Delta n \sim 1 I\Delta n$
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity (Live input): 35mm² solid or 25mm² stranded
Terminal capacity (ouput): 10mm² solid or 6mm² 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.**

Selection chart **Wiring Diagram** Load N operating Type characteristics IN-SupplyOUTOUT Poles 6 (Blue) Rated current Amps 10 16 20 25 32 Weight (g/pc) 178 **IN-Supply**



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.

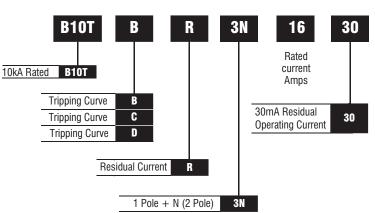
RCBO Features

- 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

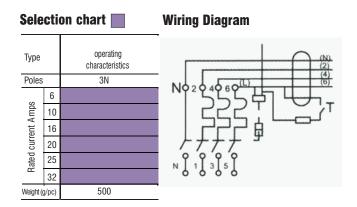
Curve B: 3-5 I_n
Curve C: 5-10 I_n
Curve D: 10-20 I_n

Options and ordering codes



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∆n : 30 mA
Residual tripping current range : $0.5 I\Delta n \sim 1 I\Delta n$
Electrical lifetime > 4,000 cycles
Fastening torque: 2.0 Nm
Terminal capacity: 35mm² solid, 25mm² 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.**