Miniature Circuit Breakers B4/BR6/B10

DO/BIO

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

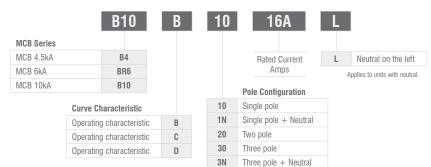
Technical Data

- 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
- Suitable for 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 Certification:
- Curve C: 5-10[°]I B4: Semko / CE
- Curve D: 10-20 I B10: VDE / Semko / CE

Options & Ordering Codes



Specifications

In accordance with		IEC 60898-1	
Certification		CE, SEMKO (only with B4 & BR6), Kema (only with B10), RCM (only with B4 & B10)	
Pole composition		1P, 1P+N, 2P, 3P, 3P+N	
Tripping Curve		B, C, D	
Calibration temperature		+30°C	
Rated frequency		50/60Hz	
Rated voltage		240/415VAC; 60VDC Max	
Rated insulation voltage		240VAC / 415VAC	
Rated impulse withstand voltage:		6.2kV	
Detect should be should be added a second to	B4	4.5kA	
Rated short circuit breaking capacity as per IEC 60898-1 and IEC60947-2	BR6	6kA	
	B10	10kA	
Mechanical lifetime		> 20,000 cycles	
Electrical lifetime		\leq 4,000 cycles	
Tightening torque		2.0Nm, 1.2Nm (B4 only)	
Screw Type		M5, M4 (B4 only)	
Terminal capacity		35mm ² solid, 25mm ² stranded conductor (10mm ² for 1P+N)	
Mounting		DIN Rail EN 60715 (EN 50022)	
Protection degree		IP20	
Operating temperature		-5°C +40°C	







Miniature Circuit Breakers B4/BR6/B10

BR6-S2 (for BR6) & B10-S3 (for B10)



Technical Datasheet

Accessories

Auxiliary Switch	BR6-F2 (for BR6) & B10-F3 (for B10)
For monitoring the status of the protection device	e (open/closed)
1 pole changeover (for C & D curve only)	
Rated current: 6A @ 230VAC & 24VDC or 3A @ 400VAC	
Dielectric Strength: 2000V/1min	
Terminal Capacity: 2.5mm ²	
Mounting on the Left side	

Shunt Trip

Shunt Trip to remotely switch off the protection device Rating voltage Ue: AC 110V / 230V / 400V Oving Voltage: 70%~110% X Ue Mounting on the Left side

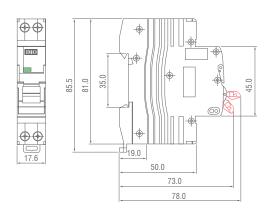
Under / Over Voltage Trip

Trips the attached unit in case of under / over voltage Rated Vottage Ue: AC 230V Under-Voltage Tripping Range: 280V ±5% Over-Voltage Tripping Range: 170V ±5% Mounting on Left Side

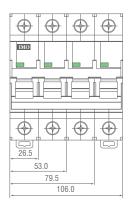
BR6-U2-02	

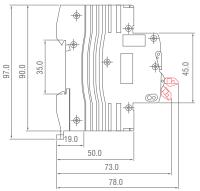
Bushars	
P NORMI O	
Description	Ref.
Busbar 1 Pole, 80A, Fork Type, 1M	B10BB1F100-1M
Busbar 3 Pole, 80A, Fork Type, 1M	B10BB3F100-1M
Busbar 1 Pole, 80A, Pin Type, 1M	B10BB1P100-1M
Busbar 3 Pole, 80A, Pin Type, 1M	B10BB3P100-1M
End Cap 3 Pole (Fork type only)	B10BBCAP3F100
Terminal Adapter	BA1
Locking Device	B10-LOCK
4mm padlock max diameter, padlock not included	
Locking Device	B10-TERM

Dimensions (mm) Miniature Circuit Breakers up to 32A (4.5kA Only)

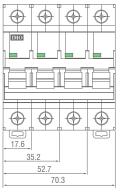


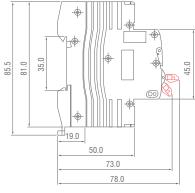
Miniature Circuit Breakers from 80A to 125A





Miniature Circuit Breakers up to 63A

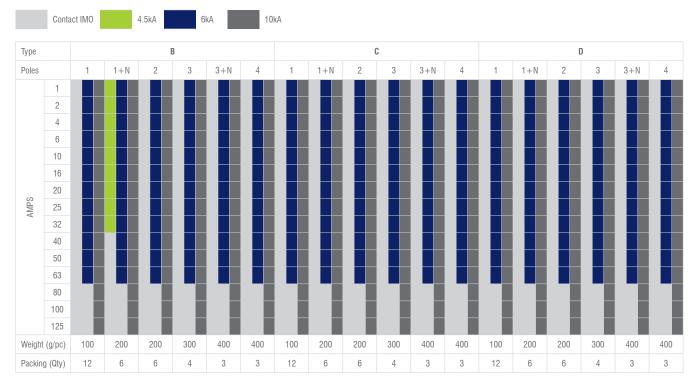




Miniature Circuit Breakers B4/BR6/B10

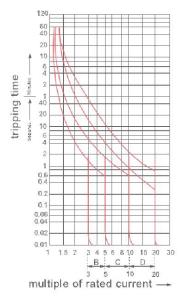


Selection Chart

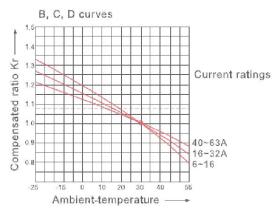


Single Module Unit

B, C, D Tripping Curve



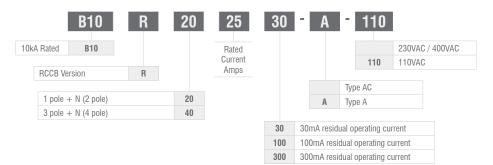
Ambient temperature & Current rating curve



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 & Ordering Codes



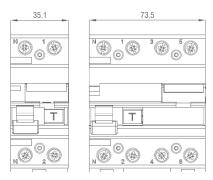


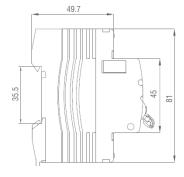
CE S

Specifications

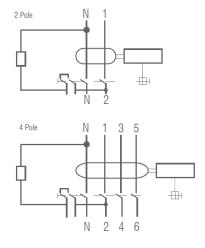
In accordance with	IEC 61008-1
Certification	CE, SEMKO
Pole composition	2P, 4P
Rated current:	16A, 25A, 32A, 40A, 63A, 80A, 100A, 125A
Residual current characteristics:	AC, A
Calibration Temperature:	+30°C
Rated frequency:	50/60Hz
Rated voltage:	110VAC/230VAC/400VAC
Rated residual operating current IAn:	30mA, 100mA, 300mA
Max. Switching Time@ IAn:	100ms
Residual tripping current range:	0.5 l∆n ~ 1 l∆n
Rated conditional short circuit current:	10kA
Electrical lifetime	> 4,000 cycles
Fastening torque:	2.0Nm
Terminal capacity:	35mm ² solid, 25mm ² stranded conductor
Mounting on	DIN Rail EN 60715 (EN 50022)
Protection degree:	IP20
Operating temperature:	-25°C - +55°C

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.

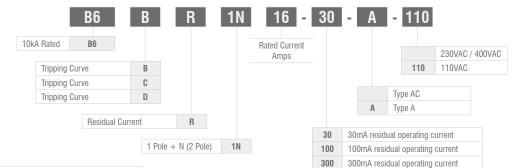
RCBO Features

- · 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 L
- Curve C: 5-10[°]I,
- Curve D: 10-20[°]I

Options & Ordering Codes



Dimensions (mm)

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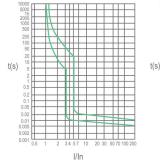
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Specifications

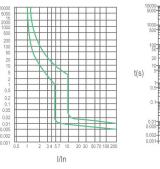
In accordance with:	IEC 61009
Certification:	CE, SEMKO, RCM
Pole composition:	2P
Residual current characteristics:	AC, A
Tripping Curve:	B, C, D
Calibration temperature:	+30°C
Rated current :	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A
Rated short circuit capacity :	10kA
Rated frequency:	50/60Hz
Rated voltage:	110VAC, 230VAC
Rated residual operating current I∆n:	30mA, 100mA, 300mA
Residual tripping current range:	0.5 l∆n ~ 1 l∆n
Electrical lifetime	> 4,000 cycles
Fastening torque:	2.0Nm
Terminal capacity:	35mm ² solid, 25mm ² stranded conductor
Mounting on	DIN 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.

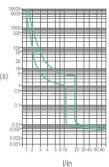




Tripping Curve C

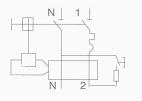


Tripping Curve D



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Wiring Diagram



Technical Datasheet

BIS Isolating Switches

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

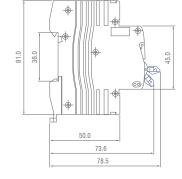
CE

Options & Ordering Codes

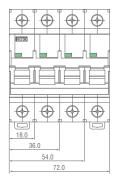
	BIS	2	063A	
Distribution board Isolating Switch	BIS			
	1 Pole	1	N32A	Compact Size, Blue Handle, 32A
	2 Pole	2	063A	63 Amps
	3 Pole	3	1000	100 Amps
	4 Pole	4	125A	125 Amps
			250A	250 Amps

Dimensions (mm) for Compact 32A version

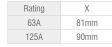


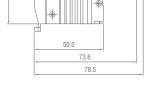


Dimensions (mm) for 63A & 125A version



36.0		45.0 45.0
	50.0	
	73.6	
	78.5	

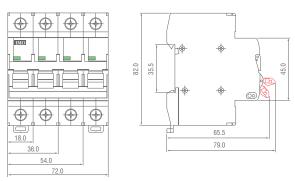




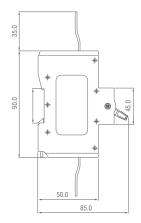
Specifications

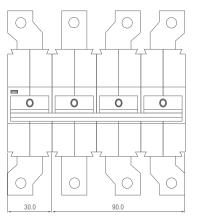
In accordance with	IEC 60947-3
Certification	CE, SEMKO (63 and 125A only)
Pole composition	1P / 2P / 3P / 4P
Rated current	32A / 63A / 100A / 125A / 250A
Rated voltage	AC 230 / 400V
Rated frequency	50/60Hz
Rated short circuit capacity	6kA (3kA for 100A version)
Electrical lifetime	> 10,000 cycles
Fastening torque	2.0Nm
Terminal capacity	35mm ² solid, 25mm ² stranded conductor
Protection degree	IP20

Dimensions (mm) for 100A version



Dimensions (mm) for 250A version







Technical Datasheet

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.

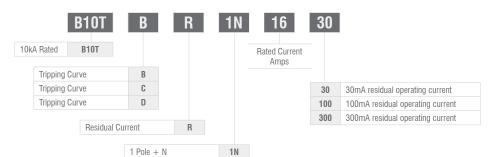
RCBO Features

- 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

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

- Curve B: 3-5 I
- Curve C: 5-10["]I
- Curve D: 10-20["]I

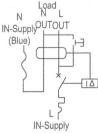
Options & Ordering Codes



Specifications

In accordance with	IEC 61009-1
Certification	CE
Pole composition	3P+N
Residual current characteristics	AC
Tripping Curve	B, C, D
Rated current	1A, 2A, 3A, 4A, 6A, 10A, 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 IAn	30mA, 100mA, 300mA
Residual tripping current range	0.5 l∆n ~ 1 l∆n
Electrical lifetime	> 4,000 cycles
Fastening torque	2.0 Nm
Terminal capacity (Live input)	35mm ² solid or 25mm ² stranded
Terminal capacity (ouput)	10mm ² solid or 6mm ² stranded
Mounting on	DIN rail EN 60715 (EN 50022)
Protection degree	IP20
Operating temperature	-25°C - +55°C
Weight g/pc	178.0

Wiring Diagram







CE

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.

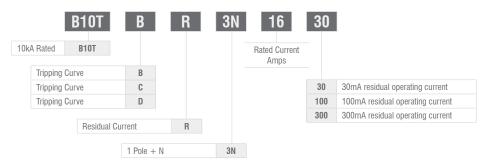
RCBO Features

- 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
- Curve C: 5-10[°]l,
- Curve D: 10-20[°]l

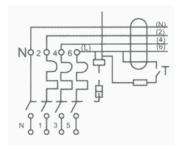
Options & Ordering Codes



Specifications

In accordance with	IEC 61009-1
Certification	CE
Pole composition	3P+N
Residual current characteristics	AC
Tripping Curve	B, C, D
Rated current	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated short circuit capacity	10 kA
Calibration Temperature	+30°C
Rated frequency	50/60Hz
Rated voltage	230/400VAC
Rated residual operating current IAn	30mA, 100mA, 300mA
Residual tripping current range	0.5 l∆n ~ 1 l∆n
Electrical lifetime	> 4,000 cycles
Fastening torque	2.0 Nm
Terminal capacity	35mm ² solid or 25mm ² stranded
Mounting on	DIN rail EN 60715 (EN 50022)
Protection degree	IP20
Operating temperature	-25°C - +55°C

Wiring Diagram



Technical Datasheet



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