## Miniature Circuit Breakers B4/B6/B10



Technical Datasheet

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<sub>n</sub> Certification:
 Curve C: 5-10 I<sub>n</sub> B4: Semko / CE
 Curve D: 10-20 I<sub>n</sub> B10: VDE / Semko / CE



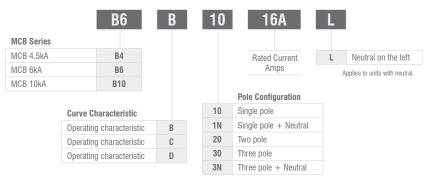








#### **Options & Ordering Codes**



#### **Specifications**

In accordance with		IEC 60898-1
Certification		CE, SEMKO (only with B4), 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 operational voltage		240/415VAC; 60VDC Max
Rated insulation voltage		240VAC / 415VAC
Rated impulse withstand voltage:		6.2kV
Rated short circuit breaking	B4	1P+N, C curve: 4.5kA
capacity as per IEC 60898-1	B6	1P, B curve: 6kA
and IEC60947-2	B10	1P/2P/3P/3P+N, C & D curve: 10kA
Mechanical lifetime		> 20,000 cycles
Electrical lifetime		> 8,000 cycles
Tightening torque		2.0 Nm
Screw Type		M5
Terminal capacity		35mm² solid, 25mm² stranded conductor (10mm² for 1P+N)
Mounting		DIN Rail EN 60715 (EN 50022)
Protection degree		IP20
Operating temperature		-5°C +40°C

#### **Selection Chart**



## **Miniature Circuit Breakers B4/B6/B10**



Technical Datasheet

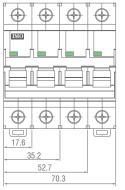
#### **Accessories**

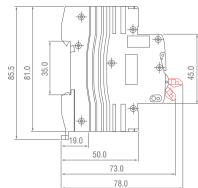
B10-F3
(open/closed)
400VAC

Shunt Trip	B10-S3
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	

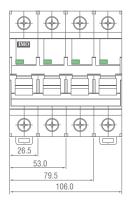
Busbars	
Description	Ref.
Busbar 1 Pole, 80A, Fork Type, 1M	B10BB1F100-1M
Busbar 3 Pole, 80A, Fork Type, 1M	B10BB3F100-1M
Busbar 1 Pole, 80A, Pin Type, 1M	B10BB1P100-1M
Busbar 3 Pole, 80A, Pin Type, 1M	B10BB3P100-1M
End Cap 3 Pole (Fork type only)	B10BBCAP3F100
Terminal Adapter	BA1
Locking Device	B10-LOCK
4mm padlock max diameter, non included	
Locking Device	B10-TERM

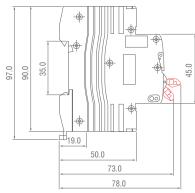
#### Dimensions (mm) Miniature Circuit Breakers up to 63A



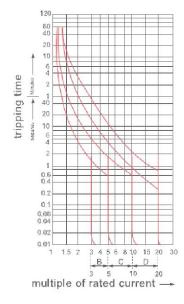


#### **Miniature Circuit Breakers from 80A**

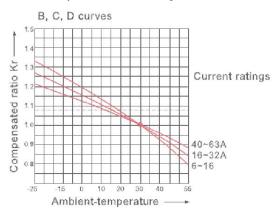




#### B, C, D Tripping Curve



#### **Ambient temperature & Current rating curve**



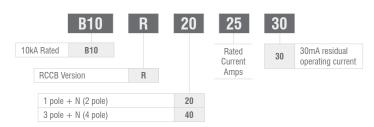
# **Residual Current Circuit Breakers B10R**



Technical Datasheet

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**







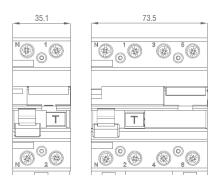
#### **Specifications**

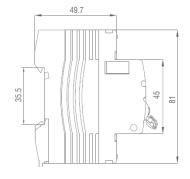
In accordance with	IEC 61008-1
Certification	CE, SEMKO
Pole composition	2P, 4P
Rated current:	16A, 25A, 32A, 40A, 63A
Residual current characteristics:	AC
Calibration Temperature:	+30°C
Rated frequency:	50/60Hz
Rated voltage:	230VAC/400VAC
Rated residual operating current I∆n:	30mA, 100mA, 300mA
Max.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

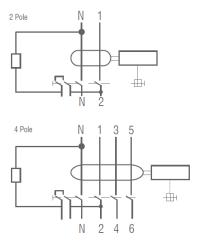
#### **Selection Chart**

Туре		Operating Characteristics	
Poles		2N	3N
	16		
	25		
	32		
	40		
	63		
Weight	(g/pc)	206	412
Packin	g (Qty)	6	3

#### **Overall & Installation Dimensions**







## **Residual Current Circuit Breakers** With Overload Protection

Technical Datasheet

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 Curve C: 5-10 I Curve D: 10-20 I

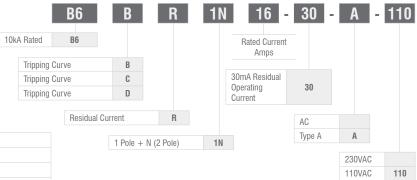








#### **Options & Ordering Codes**

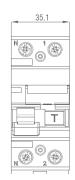


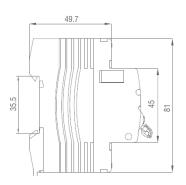
#### **Specifications**

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 :	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
Residual tripping current range:	0.5 l∆n ~ 1 l∆n
Electrical lifetime	> 4,000 cycles
Fastening torque:	2.0Nm
Terminal capacity:	35mm² solid, 25mm² stranded conductor
Mounting on	DIN rail EN 60715 (EN 50022)
Protection degree:	IP20
Operating temperature range:	-25°C - +55°C

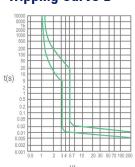
For Dimensions refer to RCCB Data. For Tripping Curve refer to MCB

#### **Dimensions (mm)**

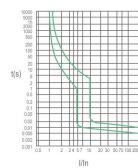




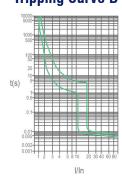
#### **Tripping Curve B**

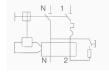


#### **Tripping Curve C**



#### **Tripping Curve D**





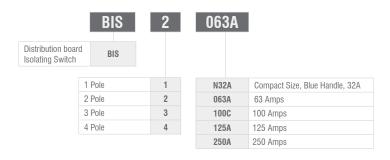
## **BIS Isolating Switches**

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



#### **Options & Ordering Codes**



## IMO

Technical Datasheet

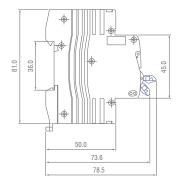


#### **Specifications**

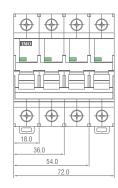
In accordance with	IEC 60947-3
Certification	CE, SEMKO (63 and 125A only)
Pole composition	1P / 2P / 3P / 4P
Rated current	32A / 63A / 100A / 125A / 250A
Rated voltage	AC 230 / 400V
Rated frequency	50/60Hz
Rated short circuit capacity	6kA (3kA for 100A version)
Electrical lifetime	> 10,000 cycles
Fastening torque	2.0Nm
Terminal capacity	35mm² solid, 25mm² stranded conductor
Protection degree	IP20

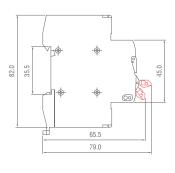
#### **Dimensions (mm) for Compact 32A version**



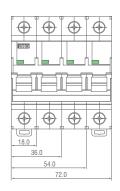


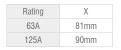
#### Dimensions (mm) for 100A version

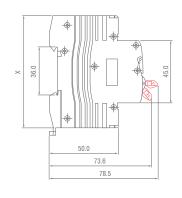




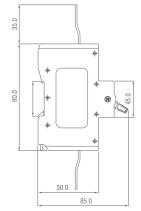
#### Dimensions (mm) for 63A & 125A version

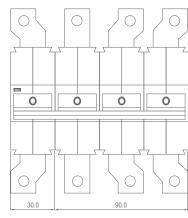






#### Dimensions (mm) for 250A version





# 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<sub>n</sub>
 Curve C: 5-10 I<sub>n</sub>
 Curve D: 10-20 I<sub>n</sub>

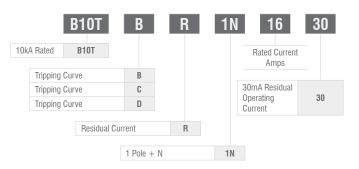
# IMO

Technical Datasheet



CE

#### **Options & Ordering Codes**



#### **Specifications**

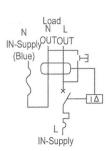
In accordance with	IEC 61009-1
Certification	CE
Pole composition	3P+N
Residual current characteristics	AC
Tripping Curve	B, C, D
Rated current	6A, 10A, 16A, 20A, 25A, 32A
Rated short circuit capacity	10 kA
Calibration Temperature	+30°C
Rated frequency	50/60Hz
Rated voltage	230/400VAC
Rated residual operating current I∆n	30mA
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)	35mm² solid or 25mm² stranded
Terminal capacity (ouput)	10mm <sup>2</sup> solid or 6mm <sup>2</sup> stranded
Mounting on	DIN 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**



Туре		Operating Characteristics
Poles		1N
	6	
	10	
	16	
	20	
	25	
	32	
Weight (g/pc)		178



# Residual Current Circuit Breakers With Overload Protection 3P+N



Technical Datasheet

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

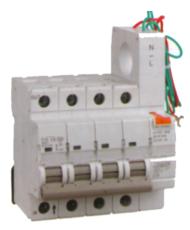
Tripping characteristics in accordance with B, C and D type curves

Curve B: 3-5 I<sub>n</sub>
 Curve C: 5-10 I<sub>n</sub>
 Curve D: 10-20 I<sub>n</sub>

#### **Specifications**

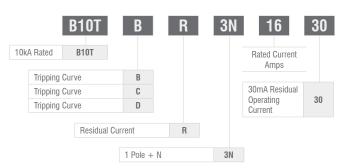
In accordance with	IEC 61009-1
Certification	CE
Pole composition	3P+N
Residual current characteristics	AC
Tripping Curve	B, C, D
Rated current	6A, 10A, 16A, 20A, 25A, 32A
Rated short circuit capacity	10 kA
Calibration Temperature	+30°C
Rated frequency	50/60Hz
Rated voltage	230/400VAC
Rated residual operating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

Dimensions (mm) for 3P+N: 4 module (72W x 81H x 69D) + 1 module (18W x 130H x 69D).



CE

#### **Options & Ordering Codes**



#### **Selection Chart**

Туре		Operating Characteristics
Poles		3N
	6	
	10	
	16	
	20	
	25	
	32	
Weight	(g/pc)	500

