

Miniature Circuit Breakers B4/B6/B10

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
- Applicable to terminal and Pin/Fork type busbar connection
- Finger protected connection terminals
- Handle padlock device
- IP20 without any additional parts



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
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

* Limited Operations Only (Connections: 1 - Supply; 2 - Load)

Options & Ordering Codes

	B6	B	10	16A	L
MCB 4.5kA	B4				
MCB 6kA	B6				
MCB 10kA	B10				
				Rated Current Amps	
					Neutral on the right
					L Neutral on the left
					Applies to units with neutral.
Operating characteristic	B				
Operating characteristic	C				
Operating characteristic	D				
				10 Single pole	
				1N Single pole + Neutral	
				20 Two pole	
				30 Three pole	
				3N Three pole + Neutral	

■ Please contact IMO ■ 4.5kA ■ 6kA ■ 10kA

Type	B operating characteristics			C operating characteristics			D operating characteristics		
Poles	1	1N	2	3	3N	1	2	3	
Rated current - Amps									
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

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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: 1-4mm ²	
Mounting on the Left side	

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	

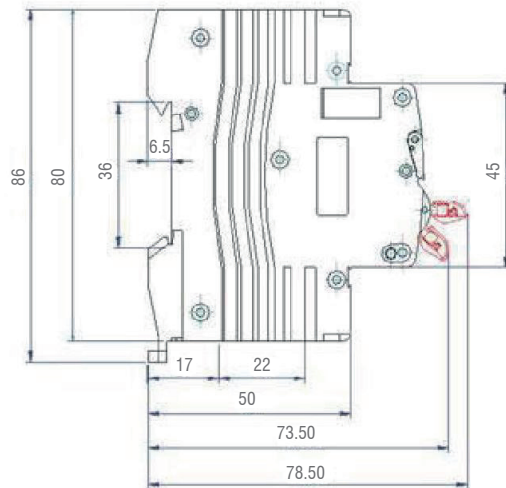
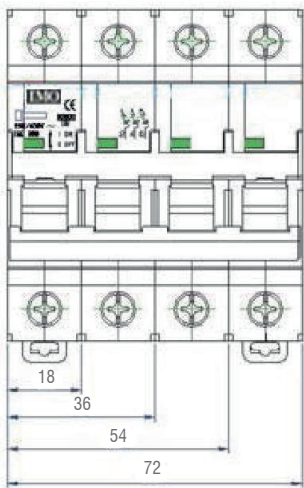
Busbars	
Description	Ref.
Busbar 1 Pole, 100A, Fork Type, 1M	B10BB1F100-1M
Busbar 3 Pole, 100A, Fork Type, 1M	B10BB3F100-1M
Busbar 1 Pole, 100A, Pin Type, 1M	B10BB1P100-1M
Busbar 3 Pole, 100A, Pin Type, 1M	B10BB3P100-1M
End Cap 3 Pole (Fork type only)	B10BBCAP3F100

Terminal Adapter	BA1
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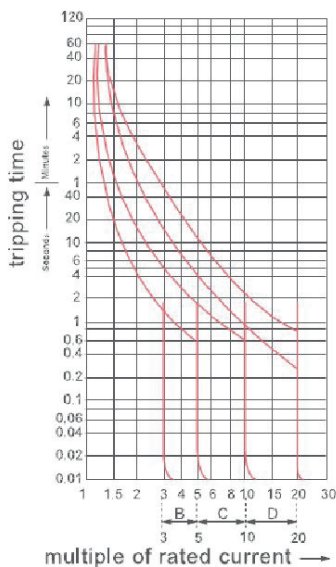
Locking Device	B10-LOCK
4mm padlock max diameter, non included	

Locking Device	B10-TERM
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Dimensions (mm) Miniature Circuit Breakers



B, C, D Tripping Curve



Ambient temperature & Current rating curve

