



**DATA SHEET**  
**MCB B100A 2-pole**  
**B characteristics**  
 Article No. 09915121



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**Function**

An important stipulation of DIN VDE 0100 is to protect cables, lines and installation devices from overload and short-circuits. This requirement can be met using miniature circuit-breakers (MCBs). In industrial installations and also in commercial buildings, they often take on additional protection of equipment and devices where there are usually higher requirements than when used in residential buildings. Miniature circuit-breakers utilise both the magnetic and heat effect of the electrical current. If the current jumps to a value that is too high when a short-circuit occurs, the MCB interrupts the circuit using the magnetic field of an energised coil. The heat that develops when there is continuous overload causes the bimetal to warp, which trips the breaker. Miniature circuit-breakers of series MCB have a high rated short-circuit current of 10 kA. Double-sided two-tier terminals enable the use of large cross-sections for conductors and phase bars. Miniature circuit-breakers with characteristic B ensure standard protection for lighting and socket circuits. As their short-circuit trip is three to five times the rated current, they should not be used to fuse-protect load circuits with high switch-on currents. They replace the former L or H characteristic.

**Features**

high-quality miniature circuit-breakers 1+N in 1 module width unit for space-saving installation, switching position indicator red/green, Protection against wires being lodged behind terminals, extensive range of accessories which can be retro-fitted, rated currents up to 40 A, rated switching capacity 6 kA as per EN 60898

**Mounting**

quick fastening to mounting rail, any installation position

**Applications**

Power supplies for residential and purpose-built buildings as well as industrial plants

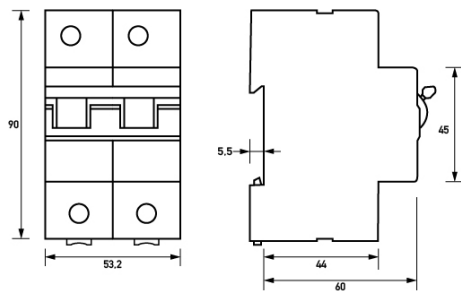
**Accessories**

MCB USA, MCB ASA, MCB HI 21, MCB HI 11

Technical Data	MCB B100A 2-pole
Series	MCB
Number of poles	2
Tripping characteristic	B
Operating voltage (AC)	230 V, 400 V
Operating frequency	50 Hz (40 Hz ... 60 Hz)
Description	Load circuit
Specification	Load switch contact
Rated voltage (AC)	12 V ... 440 V
Rated voltage (DC)	48 V (12 V ... 52 V)
Rated current (AC)	100 A
Rated short-circuit current	10 kA
max. Output O1 total rated switching capacity	10 kA
Rated impulse withstand voltage	6 kV
Description	Screw-type terminal top and bottom (Load circuit)
Max number of wires per terminal	2
Cross section solid	1-wire: 1.5 mm <sup>2</sup> ... 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>

Technical Data	MCB B100A 2-pole
Connecting capacity flexible	2-wire: 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section stranded	1-wire: 1.5 mm <sup>2</sup> ... 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Tightening torque	max. 3.5 Nm
Description	General data
Operating position	any
Mechanical endurance	min. 10000 cycles
Electrical endurance	min. 4000 cycles
Ambient temperature	-30 °C ... 55 °C
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Thermoplastic resin
Protection class	IP20
sealable	true
Width	53.2 mm
Height	90 mm
Depth	71.5 mm
Installation depth	70 mm
Width (modules)	3 TE
Design requirements/Standards	EN 60898-1
Power limitation category	3
Degree of pollution according to EN 60664	2
Overtoltage class	IV

**Dimensions**



Wiring example

