

MCB10-1, MCB10-3 | Miniature circuit breakers



- Miniature circuit breakers MCB series are mechanical switching devices able to switch, conduct and switch-off the current under normal conditions and able to switch, conduct and automatically switch-off the current under abnormal circuit conditions such as short circuit.
- They are used to protect house installations and industrial electric distributions and devices against overcurrents.
- Rated current:
 - **1 pole**, characteristics **B**: range 2 - 63 A,
 - **1 pole**, characteristics **C**: range 6 - 63 A,
 - **3 poles**, characteristics **B&C**: range 10 - 63 A
- Sealable lever
- They have window with color designation of characteristics and rated current.
- There is optical state indicator on the front side of the Miniature circuit breaker indicating operation state of the device (green target visible = closed contacts, red target visible = opened contacts).
- The state indicator is directly connected to the device contact system and it does not depend on the handle position (Miniature circuit breaker also can switch-off when the handle is sealed — it is corresponding with safe switch-off conditions).

• APPROVALS



| Technical parameters | MCB10-1B 1C | MCB10-3B 3C |
|----------------------------------|--|-------------------------|
| Tripping characteristics: | according to EN 60 898-1 | |
| Number of poles: | 1 | 3 |
| Standards: | B : EN 60 898 - 1, C : EN 60 947 - 2 | |
| Rated currents: | 2 - 63 A | 10 - 63 A |
| Rated voltage: | 230 V, 230/400 V, 400 V | |
| Rated DC voltage: | max. 40 V | |
| Rated frequency: | 50 to 60 Hz | |
| Short circuit breaking capacity: | 10 kA | |
| Selection category: | 3 | |
| Electrical durability: | 4000 cycles | |
| Mechanical durability: | 10 000 cycles | |
| Terminal capacity: | 1 - 25 mm ² for CU wires | |
| Mounting: | on DIN rail (EN 60 715) | |
| Degree of protection: | IP20 IP40 from the front panel | |
| Ambient air temperature: | -25 to +55°C | |
| Working positions: | optional | |
| Resistance against vibrations: | 3g (8 to 50 Hz) | |
| Dimensions: | 1 pole 17,5 x 94 x 71 mm | 3 poles 35 x 94 x 71 mm |

Product description:

Upper fixed clip

makes it possible to withdraw a miniature circuit breaker from a row of devices interconnected on the top by a busbar without interruption of adjacent current circuits.

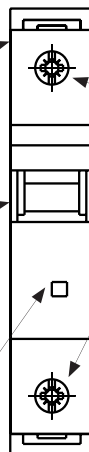
Control handle

Position indicator

indicates optically the operating status of the device. It is directly connected with the contact system of the device and is independent on the control lever position (the device trips and indicates operating status even at the control lever locking. So it meets the requirement for safe disconnection.

Indicator colour: red, green

Device status: ON, OFF



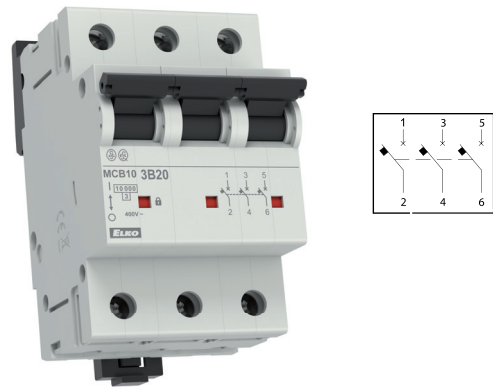
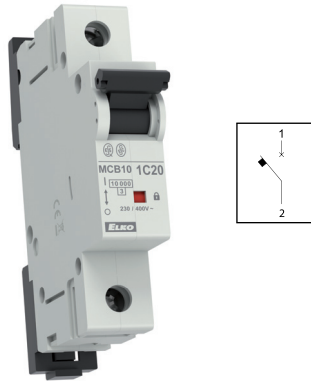
Combined terminal

with a secured screw on both sides of the miniature circuit breaker makes it possible to connect the busbar and conductor. The busbar and conductor can be connected by a single screw.

Lower flexible clip

enables mounting on the rail DIN EN 50 022, width 35 mm. In the fixed withdrawn position it facilitates the side shift on the instrument board.

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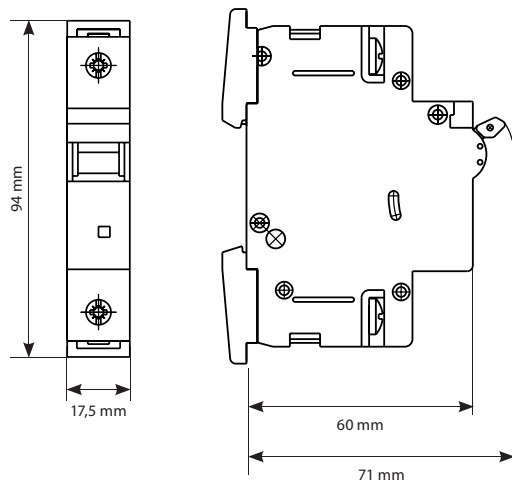
Ordering codes of 1 pole circuit breakers MCB10-1:

| | description | rated current | EAN code |
|-------------------|-------------|---------------|---------------|
| B characteristics | MCB10-1B2 | 2 A | 8595188169004 |
| | MCB10-1B4 | 4 A | 8595188169011 |
| | MCB10-1B6 | 6 A | 8595188169028 |
| | MCB10-1B10 | 10 A | 8595188169035 |
| | MCB10-1B13 | 13 A | 8595188169042 |
| | MCB10-1B16 | 16 A | 8595188169059 |
| | MCB10-1B20 | 20 A | 8595188169066 |
| | MCB10-1B25 | 25 A | 8595188169073 |
| | MCB10-1B32 | 32 A | 8595188169080 |
| | MCB10-1B40 | 40 A | 8595188169097 |
| C characteristics | MCB10-1B50 | 50 A | 8595188169103 |
| | MCB10-1B63 | 63 A | 8595188169110 |
| | MCB10-1C6 | 6 A | 8595188169127 |
| | MCB10-1C10 | 10 A | 8595188169134 |
| | MCB10-1C13 | 13 A | 8595188169141 |
| | MCB10-1C16 | 16 A | 8595188169158 |
| | MCB10-1C20 | 20 A | 8595188169165 |
| | MCB10-1C25 | 25 A | 8595188169172 |
| | MCB10-1C32 | 32 A | 8595188169189 |
| | MCB10-1C40 | 40 A | 8595188169196 |
| | MCB10-1C50 | 50 A | 8595188169202 |
| | MCB10-1C63 | 63 A | 8595188169219 |

Ordering codes of 3 poles circuit breakers MCB10-3:

| | description | rated current | EAN code |
|-------------------|-------------------|---------------|---------------|
| B characteristics | MCB10-3B10 | 10 A | 8595188169226 |
| | MCB10-3B13 | 13 A | 8595188169233 |
| | MCB10-3B16 | 16 A | 8595188169240 |
| | MCB10-3B20 | 20 A | 8595188169257 |
| | MCB10-3B25 | 25 A | 8595188169264 |
| | MCB10-3B32 | 32 A | 8595188169271 |
| | MCB10-3B40 | 40 A | 8595188169288 |
| | MCB10-3B50 | 50 A | 8595188169295 |
| | MCB10-3B63 | 63 A | 8595188169301 |
| | C characteristics | MCB10-3C10 | 10 A |
| MCB10-3C13 | | 13 A | 8595188169325 |
| MCB10-3C16 | | 16 A | 8595188169332 |
| MCB10-3C20 | | 20 A | 8595188169349 |
| MCB10-3C25 | | 25 A | 8595188169356 |
| MCB10-3C32 | | 32 A | 8595188169363 |
| MCB10-3C40 | | 40 A | 8595188169370 |
| MCB10-3C50 | | 50 A | 8595188169387 |
| MCB10-3C63 | | 63 A | 8595188169394 |

Dimensions of 1 pole MCB10-1:



Dimensions of 3 poles MCB10-3:

