



PRODUCT-DETAILS

# SB202M-C1

## SB202M-C1 Miniature Circuit Breaker - 2P - C - 1 A



| General Information   |   |
|-----------------------|---|
| Extended Product Type | SB202M-C1   |
| Product ID            | 1SYS272012R0014   |
| Catalog Description   | SB202M-C1 Miniature Circuit Breaker - 2P - C - 1 A  |
| Long Description      | System pro M compact SB200M Miniature Circuit Breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 10 kA at 240/415 V AC) and rated currents (up to 63A). All MCBs of the product range SB200M comply with IS/IEC 60898-1, allowing the use for residential, commercial and industrial applications. |

| Technical   |                                     |
|---|-------------------------------------|
| Standards   | IS/IEC 60898-1                      |
| Tripping Characteristic                             | C                                   |
| Rated Voltage (U <sub>r</sub> )                     | 415 V                               |
| Operational Voltage                                 | Maximum 264 V AC<br>Maximum 60 V DC |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 4 kV                                |
| Rated Current (I <sub>n</sub> )                     | 1 A                                 |

|   |                                      |
|---|--------------------------------------|
| Rated Operational Current<br>(I <sub>e</sub> )                          | 1 A                                  |
| Rated Short-Circuit<br>Capacity   | 10 kA                                |
| Rated Service Short-<br>Circuit Breaking Capacity<br>(I <sub>cs</sub> ) | 7.5 kA                               |
| Frequency (f)   | 50 Hz                                |
| Rated Frequency (f)   | 50 Hz                                |
| Energy Limiting Class   | 3                                    |
| Electrical Endurance  | 20000AC cycle                        |
| Mechanical Endurance  | 20000 cycle                          |
| Number of Protected<br>Poles  | 2                                    |
| Number of Poles   | 2                                    |
| Overvoltage Category  | III                                  |
| Tightening Torque   | 2 N·m                                |
| Actuator Type   | Toggle                               |
| Screw Terminal Type   | Cage Terminal                        |
| Actuator Marking  | I / O                                |
| Actuator Material   | Insulation Group II, Black, Sealable |
| Housing Material  | Insulation Group II, RAL 7035        |
| Mounting Position   | Any                                  |
| Recommended Screw<br>Driver   | Pozidriv 2                           |
| Accessories Available   | Yes                                  |
| Remarks   | IP40 in enclosure with cover         |
| Connecting Capacity   | rigid: 25 mm²<br>: flexible: 16 mm²  |

Material Compliance

|   |                                   |
|---|-----------------------------------|
| RoHS Information                                  | 1SYM100001D1015                   |
| RoHS Status                                       | Following EU Directive 2011/65/EU |
| RoHS Date   | 43546                             |
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108468A3363                   |

Environmental

|   |   |
|---|---|
| Ambient Air Temperature                       | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C                                  |
| Reference Ambient Air<br>Temperature          | 30 °C   |
| Degree of Protection                          | IP20  |
| Pollution Degree                              | 2   |
| Environmental Conditions                      | 28 cycle<br>55°C @ 90-96%<br>25°C @ 95-100%   |
| Resistance to Vibrations                      | 20 Cycles with Load 0.8 In: 5g 5 ... 150 Hz<br>20 Cycles with Load 0.8 In: 6g 35 Hz |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | 25g / 2 shock / 13 ms   |

Dimensions

|                     |       |
|---------------------|-------|
| Product Net Width   | 35 mm |
| Product Net Height  | 85 mm |
| Product Net Depth / | 69 mm |

|                                  |         |
|----------------------------------|---------|
| Length                           |         |
| Product Net Weight               | 0.23 kg |
| Built-In Depth (t <sub>2</sub> ) | 69 mm   |

Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 0.25 kg     |

Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 9AKK107492A2248 |
|--------------------------------|-----------------|

Installation

|                          |                    |
|--------------------------|--------------------|
| Instructions and Manuals | No document needed |
|--------------------------|--------------------|

Popular Downloads

|                                   |                    |
|-----------------------------------|--------------------|
| Data Sheet, Technical Information | No document needed |
|-----------------------------------|--------------------|

Classifications

|                            |  |
|----------------------------|--|
| ETIM 8                     | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 9                     | EC000042 - Miniature circuit breaker (MCB) |
| WEEE Category              | Product Not in WEEE Scope                  |
| eClass                     | V11.0 : 27141901                           |
| Object Classification Code | F  |

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs

