



PRODUCT-DETAILS

# S802N-B6

## S802N-B6 High Performance MCB



| General Information   |  |
|-----------------------|--|
| Extended Product Type | S802N-B6   |
| Product ID            | 2CCS892001R0065  |
| EAN                   | 7612271408435  |
| Catalog Description   | S802N-B6 High Performance MCB  |
| Long Description      | <p>The S802N-B6 is a 2-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 6 A. It is a current limiting device with a maximum breaking capacity of 36kA at 240/415V. It can be used for voltages up to 400/690V and in DC as well. It has two different tripping mechanisms, the thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. The S802N-B6 complies with IEC/EN 60947-2 and allows the use for industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S802N-B6 more comfortable. Due to the fast arc extinction of S802N-B6 your application will be secured.</p> |

| Technical                       |                                |
|---------------------------------|--------------------------------|
| Standards                       | IEC/EN 60947-2, IEC/EN 60898-1 |
| Tripping Characteristic         | B                              |
| Rated Voltage (U <sub>r</sub> ) | acc. to IEC 60947-2 690 V AC   |

|   |  |
|---|--|
|   | acc. to IEC 60947-2 250 V DC   |
|   | acc. to IEC 60898-1 400 V AC   |
| Rated Operational Voltage   | acc. to IEC 60898-1 400 V  |
| Rated Insulation Voltage (U <sub>i</sub> )                        | acc. to IEC/EN 60664-1 690 V   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 8 kV   |
| Input Voltage Type  | AC/DC  |
| Rated Current (I <sub>n</sub> )                                   | 6 A  |
| Rated Operational Current (I <sub>e</sub> )                       | 6 A  |
| Rated Short-Circuit Capacity                                      | (230 V) 20 kA<br>(400 V) 20 kA   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (415 V) 36 kA<br>(690 V) 4.5 kA  |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (240 / 415 V AC) 30 kA<br>(254 / 440 V AC) 15 kA<br>(400 / 690 V AC) 3 kA<br>(125 V DC) 20 kA                        |
| Frequency (f)   | 50...60 Hz   |
| Rated Frequency (f)   | 50/60 Hz   |
| Power Loss  | 3.6 W<br>at Rated Operating Conditions per Pole 1.8 W  |
| Contact Position Indication                                       | ON / OFF / TRIP  |
| Energy Limiting Class   | 3  |
| Electrical Endurance  | 10000 cycle  |
| Mechanical Endurance  | 10000 cycle  |
| Number of Protected Poles   | 2  |
| Number of Poles   | 2  |
| Overvoltage Category  | IV   |
| Tightening Torque   | 3.5 N·m<br>31 in·lb  |
| Release Type  | B  |
| Actuator Marking  | I / O  |
| Housing Material  | Insulation group I, RAL 7035   |
| Mounting on DIN Rail  | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715       |
| Mounting Position   | Any  |
| Recommended Screw Driver  | Pozidriv 2   |
| Accessories Available   | Yes  |
| Remarks   | Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw |
| Connecting Capacity   | Flexible 0 ... 50 mm <sup>2</sup><br>Rigid 0 ... 70 mm <sup>2</sup>  |
| Terminal Type   | Screw Terminals  |

Material Compliance

|                   |                                    |
|-------------------|------------------------------------|
| RoHS Information  | 9AKK107680A3903<br>2CCC005083D0202 |
| RoHS Status       | Following EU Directive 2011/65/EU  |
| RoHS Date         | 20170426                           |
| Conflict Minerals | 9AKK108468A3363                    |

Reporting Template  
(CMRT)

Environmental

|  |  |
|--|--|
| Ambient Temperature                        | -25...60 °C  |
| Ambient Air Temperature                    | Operation -25 ... 60 °C                                    |
| Reference Ambient Air Temperature          | acc. to IEC60947-2 30 °C<br>acc. to EN60898-1 30 °C        |
| Degree of Protection                       | IP20   |
| Pollution Degree                           | 3  |
| Resistance to Vibrations                   | 1 mm 2 - 13.2 Hz<br>0.7g with Load 100% x le 13.2 - 100 Hz |
| Resistance to Shock acc. to IEC 60068-2-27 | 5 g<br>30 ms   |
| Environmental Information                  | 2CCY413207D0203  |

Dimensions

|                                     |         |
|-------------------------------------|---------|
| Width in Number of Modular Spacings | 3       |
| Product Net Width                   | 54 mm   |
| Product Net Height                  | 95 mm   |
| Product Net Depth / Length          | 82.5 mm |
| Product Net Weight                  | 490 g   |
| Built-In Depth (t <sub>2</sub> )    | 82.5 mm |

Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 510 g       |

Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CCC005083D0202 |
|--------------------------------|-----------------|

Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 2CCC413016M0008 |
|--------------------------|-----------------|

Popular Downloads

|                                   |   |
|-----------------------------------|---|
| Data Sheet, Technical Information | 9AKK108468A9560<br>9AKK108468A9561<br>9AKK108468A9562 |
|-----------------------------------|---|

Classifications

|                            |  |
|----------------------------|--|
| ETIM 8                     | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 9                     | EC000042 - Miniature circuit breaker (MCB)                 |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B             | Business To Business                                       |
| CN8                        | 85362020   |
| eClass                     | V11.0 : 27141901   |
| Object Classification Code | F  |

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → High Performance Circuit Breakers HPCBs → High Performance Circuit Breakers HPCBs

