PRODUCT-DETAILS

# S802N-C6

## S802N-C6 High Performance MCB



### General Information

| | |
|---|---|
| Extended Product Type | S802N-C6 |
| Product ID | 2CCS892001R0064 |
| EAN | 7612271408473 |
| Catalog Description | S802N-C6 High Performance MCB |
| Long Description | The S802N-C6 is a 2-pole High Performance Circuit breaker with C-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-C6 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-C6 more comfortable. Due to the fast arc extinction of S802N-C6 your application will be secured. |

### Technical

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|---|---|
| Standards | IEC/EN 60947-2<br>IEC/EN 60898-1 |
| Tripping Characteristic | C |

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|---|---|
| Rated Operational Voltage | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60947-2 690 V AC |
| Rated Insulation Voltage ($U_i$) | acc. to IEC/EN 60664-1 690 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 8 kV |
| Input Voltage Type | AC/DC |
| Rated Current ($I_n$) | 6 A |
| Rated Short-Circuit Capacity | (400 V AC) 20 kA |
| Rated Ultimate Short-Circuit Breaking Capacity ($I_{cu}$) | (415 V AC) 36 kA<br>(440 V AC) 20 kA<br>(500 V AC) 10 kA<br>(690 V AC) 4.5 kA<br>(250 V DC) 20 kA |
| Rated Service Short-Circuit Breaking Capacity ($I_{cs}$) | (415 V AC) 30 kA<br>(440 V AC) 15 kA<br>(500 V AC) 8 kA<br>(690 V AC) 3 kA<br>(250 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 | C |
| 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 mm²<br>Rigid 0 … 70 mm² |
| Terminal Type | Screw Terminals |

## Material Compliance

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|---|---|
| RoHS Information | 9AKK107680A3903<br>2CCC005083D0202 |
| RoHS Status | Following EU Directive 2011/65/EU |
| RoHS Date | 20170426 |
| REACH Declaration | 9AKK108469A6125 |
| REACH Information | No data - If REACH inform is not yet available for a certain product |

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|---|---|
| REACH Date | 20190320 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

## Environmental

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|---|---|
| Ambient Air Temperature | Operation -25 ... +60 °C<br>Storage -40 ... +70 °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 Ie 13.2 - 100 Hz |
| Resistance to Shock acc. to IEC 60068-2-27 | 5 g<br>30 ms |
| Environmental Information | 2CCY413207D0203 |

## Dimensions

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|---|---|
| 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 ($t_2$) | 82.5 mm |

## Ordering

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

## Certificates and Declarations

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|---|---|
| CB Certificate | 2CCC413027D0201 |
| CCC Certificate | CQC2007010307228826 |
| Declaration of Conformity - CE | 2CCC005083D0202 |
| ESTI Certificate | 9AKK107680A0846 |
| KC Certificate | 9AKK107680A0932 |
| VDE Certificate | 2CCC413039D0601 |

## Installation

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

## Popular Downloads

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

## Classifications

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|---|---|
| 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





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