

## PRODUCT-DETAILS

# S802S-K100-R

## S802S-K100-R High Performance MCB



### General Information

|                       |                                   |
|-----------------------|-----------------------------------|
| Extended Product Type | S802S-K100-R                      |
| Product ID            | 2CCS862002R0637                   |
| EAN                   | 7612271207649                     |
| Catalog Description   | S802S-K100-R High Performance MCB |

#### Long Description

The S802S-K100-R is a 2-pole High Performance Circuit breaker with K-Characteristic, with ring tongue terminal and a rated current of 100 A. It is a current limiting device with a maximum breaking capacity of 50kA 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 S802S-K100-R 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 S802S-K100-R more comfortable. Due to the fast arc extinction of S802S-K100-R your application will be secured.

### Technical

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Standards                                     | IEC/EN 60947-2           |
| Product Name                                  | High Performance MCB     |
| Tripping Characteristic                       | K                        |
| Rated Voltage ( $U_r$ )                       | 230 / 400 V              |
| Rated Operational Voltage                     | 400/690 V AC<br>250 V DC |
| Rated Insulation Voltage ( $U_i$ )            | 690 V AC                 |
| Rated Impulse Withstand Voltage ( $U_{imp}$ ) | 8 kV                     |

|                                                                   |                                                                                                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| )                                                                 |                                                                                                                      |
| Input Voltage Type                                                | AC                                                                                                                   |
| Rated Current (I <sub>n</sub> )                                   | 100 A                                                                                                                |
| Rated Operational Current (I <sub>e</sub> )                       | 100 A                                                                                                                |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )                   | (400 V) 40 kA<br>(230 V) 40 kA                                                                                       |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (240 / 415 V AC) 50 kA<br>(254 / 440 V AC) 30 kA<br>(400 / 690 V AC) 4.5 kA<br>(125 V DC) 30 kA                      |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> )        | (230 V) 50 kA<br>(400 V) 50 kA                                                                                       |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (240 / 415 V AC) 40 kA<br>(254 / 440 V AC) 15 kA<br>(400 / 690 V AC) 4 kA<br>(125 V DC) 30 kA                        |
| Frequency (f)                                                     | 50 ... 60 Hz                                                                                                         |
| Rated Frequency (f)                                               | 50...60 Hz                                                                                                           |
| Power Loss                                                        | 18.8 W<br>at Rated Operating Conditions per Pole 9.4 W                                                               |
| Contact Position Indication                                       | ON / OFF / TRIP                                                                                                      |
| Energy Limiting Class                                             | 3                                                                                                                    |
| Electrical Endurance                                              | 6000 cycle<br>6000 cycle                                                                                             |
| Number of Poles                                                   | 2                                                                                                                    |
| Number of Protected Poles                                         | 2                                                                                                                    |
| Overvoltage Category                                              | IV                                                                                                                   |
| Tightening Torque                                                 | 3.5 N·m<br>31 in·lb                                                                                                  |
| Release Type                                                      | K                                                                                                                    |
| Actuator Marking                                                  | I / O                                                                                                                |
| Housing Material                                                  | Insulation group I, RAL 7035                                                                                         |
| Options Provided                                                  | Ringlug terminal                                                                                                     |
| 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                                               | Rigid 0 ... 50 mm <sup>2</sup><br>Flexible 0 ... 70 mm <sup>2</sup>                                                  |
| Terminal Type                                                     | Screw Terminals                                                                                                      |

## Environmental

|                                   |                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Temperature               | -25...60 °C                                                                                                                                                                                                                                                                             |
| Ambient Air Temperature           | Operation -25...60 °C                                                                                                                                                                                                                                                                   |
| Reference Ambient Air Temperature | acc. to IEC60947-2 40 °C<br>acc. to EN60898-1 40 °C                                                                                                                                                                                                                                     |
| Degree of Protection              | IP20                                                                                                                                                                                                                                                                                    |
| Pollution Degree                  | 3                                                                                                                                                                                                                                                                                       |
| Environmental Conditions          | Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle<br>Damp Heat Cyclic acc. to IEC 60068-2-30 55°C @ 90-96%<br>Damp Heat Cyclic acc. to IEC 60068-2-30 25°C @ 90-100%<br>Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C<br>Dry Heat Test B acc. to IEC 60068-2-2 2 hour @ 70 °C |

Resistance to Vibrations  
acc. to IEC 60068-2-6

2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x Ie

RoHS Status

Following EU Directive 2011/65/EU

Environmental  
Information

2CCY413207D0203

## Technical UL/CSA

Interrupting Rating acc.  
to UL1077

(240 V AC) 30 kA  
(480Y / 277 V AC) 14 kA  
(600Y / 347 V AC) 6 kA

## Dimensions

|                                     |           |
|-------------------------------------|-----------|
| Width in Number of Modular Spacings | 2         |
| Product Net Width                   | 54 mm     |
| Product Net Height                  | 142 mm    |
| Product Net Depth / Length          | 82.5 mm   |
| Product Net Weight                  | 490 g     |
| Product Net Length                  | 54 mm     |
| Size                                | 2 modules |
| Built-In Depth (t <sub>2</sub> )    | 82.5 mm   |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 152 mm        |
| Package Level 1 Height         | 99 mm         |
| Package Level 1 Depth / Length | 60 mm         |
| Package Level 1 Gross Weight   | 530 g         |
| Package Level 1 EAN            | 7612271207649 |

## Ordering

|                         |                  |
|-------------------------|------------------|
| Minimum Order Quantity  | 1 piece          |
| Customs Tariff Number   | 85362090         |
| Country of Origin       | Switzerland (CH) |
| Selling Unit of Measure | piece            |

## Certificates and Declarations (Document Number)

|                                |                                  |
|--------------------------------|----------------------------------|
| Declaration of Conformity - CE | 2CCC005083D0202                  |
| Environmental Information      | 2CCY413207D0203                  |
| Instructions and Manuals       | 2CCC413016M0008                  |
| RoHS Information               | 2CCC005083D0202, 9AKK107680A3903 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CCC413003C0208 |
|-----------------------------------|-----------------|

|                             |                 |
|-----------------------------|-----------------|
| Instructions and<br>Manuals | 2CCC413016M0008 |
| Dimension Diagram           | 2CCC413003C0201 |

**Classifications**

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| ETIM 6                        | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 7                        | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 8                        | EC000042 - Miniature circuit breaker (MCB)                 |
| EPLAN Catalog Tree            | Electrical engineering / Protection devices / General      |
| WEEE Category                 | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B                | Business To Business                                       |
| CN8                           | 85362020                                                   |
| Object Classification<br>Code | F                                                          |

**Categories**

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

