

## PRODUCT-DETAILS

# S801S-C40-R

## S801S-C40-R High Performance MCB



### General Information

|                       |                                  |
|-----------------------|----------------------------------|
| Extended Product Type | S801S-C40-R                      |
| Product ID            | 2CCS861002R0404                  |
| EAN                   | 7612271207069                    |
| Catalog Description   | S801S-C40-R High Performance MCB |

#### Long Description

The S801S-C40-R is a 1-pole High Performance Circuit breaker with C-characteristic, with ring tongue terminal and a rated current of 40 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 S801S-C40-R complies with IEC/EN 60898 -1 and IEC/EN 60947-2 and allows the use for residential, commercial and industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S801S-C40-R more comfortable. Due to the fast arc extinction of S801S-C40-R your application will be secured.

### Technical

|                           |                                             |
|---------------------------|---------------------------------------------|
| Standards                 | IEC/EN 60947-2<br>IEC/EN 60898-1<br>UL 1077 |
| Product Name              | High Performance MCB                        |
| Tripping Characteristic   | C                                           |
| Rated Voltage ( $U_r$ )   | 230 / 400 V                                 |
| Rated Operational Voltage | 400/690 V AC<br>125 V DC                    |
| Operational Voltage       | Maximum 230/400 V AC<br>Minimum 12 V AC     |

|                                                                   |                                                                                                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Rated Insulation Voltage (U <sub>i</sub> )                        | 690 V AC                                                                                                             |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 8 kV                                                                                                                 |
| Input Voltage Type                                                | AC                                                                                                                   |
| Rated Current (I <sub>n</sub> )                                   | 40 A                                                                                                                 |
| Rated Operational Current (I <sub>e</sub> )                       | 40 A                                                                                                                 |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )                   | (400 V) 25 kA<br>(230 V) 25 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) 6 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) 22.5 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                                                        | 3.7 W<br>at Rated Operating Conditions per Pole 3.7 W                                                                |
| Contact Position Indication                                       | ON / OFF / TRIP                                                                                                      |
| Energy Limiting Class                                             | 3                                                                                                                    |
| Electrical Endurance                                              | 6000 cycle<br>4000 cycle                                                                                             |
| Number of Poles                                                   | 1                                                                                                                    |
| Number of Protected Poles                                         | 1                                                                                                                    |
| 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                                                                                         |
| 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 30 °C<br>acc. to EN60898-1 30 °C |
| Degree of Protection              | IP20                                                |
| Pollution Degree                  | 3                                                   |
| Environmental                     | Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle |

|                                                   |                                                                                                                                                                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conditions                                        | 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<br>acc. to IEC 60068-2-6 | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x 1e                                                                                                                                                                        |
| RoHS Status                                       | Following EU Directive 2011/65/EU                                                                                                                                                                                                |
| Environmental<br>Information                      | 2CCY413207D0203                                                                                                                                                                                                                  |

## Technical UL/CSA

|                                       |                                                         |
|---------------------------------------|---------------------------------------------------------|
| Interrupting Rating acc.<br>to UL1077 | (240 V AC) 30 kA<br>(277 V AC) 14 kA<br>(347 V AC) 6 kA |
|---------------------------------------|---------------------------------------------------------|

## Dimensions

|                                        |          |
|----------------------------------------|----------|
| Width in Number of<br>Modular Spacings | 1        |
| Product Net Width                      | 27 mm    |
| Product Net Height                     | 142 mm   |
| Product Net Depth /<br>Length          | 82.5 mm  |
| Product Net Weight                     | 245 g    |
| Product Net Length                     | 27 mm    |
| Size                                   | 1 module |
| 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 /<br>Length | 33 mm         |
| Package Level 1 Gross<br>Weight   | 290 g         |
| Package Level 1 EAN               | 7612271207069 |

## Ordering

|                         |                  |
|-------------------------|------------------|
| Minimum Order Quantity  | 1 piece          |
| Customs Tariff Number   | 85362010         |
| Country of Origin       | Switzerland (CH) |
| Selling Unit of Measure | piece            |

## Certificates and Declarations (Document Number)

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

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CCC413003C0208 |
| Instructions and 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 Code | F                                                          |

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

