

PRODUCT-DETAILS

# S802C-D80

## S802C-D80 High Performance MCB



### General Information

|                       |                                |
|-----------------------|--------------------------------|
| Extended Product Type | S802C-D80                      |
| Product ID            | 2CCS882001R0801                |
| EAN                   | 7612271213619                  |
| Catalog Description   | S802C-D80 High Performance MCB |

#### Long Description

The S802C-D80 is a 2-pole High Performance Circuit breaker with D-Characteristic, with cage terminal and a rated current of 80 A. It is a current limiting device with a maximum breaking capacity of 25kA at 240/415V. It can be used for voltages up to 254/440V 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 S802C-D80 complies with IEC/EN 60898-1 and 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 S802C-D80 more comfortable. Due to the fast arc extinction of S802C-D80 your application will be secured.

### Technical

|                                 |  |
|---------------------------------|--|
| Standards                       | IEC/EN 60947-2, IEC/EN 60898-1, UL 1077  |
| Tripping Characteristic         | D  |
| Rated Voltage (U <sub>r</sub> ) | acc. to IEC 60947-2 440 V AC<br>acc. to IEC 60947-2 250 V DC<br>acc. to IEC 60898-1 400 V AC |
| Rated Operational Voltage       | acc. to IEC 60947-2 440 V AC<br>acc. to IEC 60947-2 250 V DC<br>acc. to IEC 60898-1 400 V AC |
| Operational Voltage             | Maximum 230/400 V AC<br>Minimum 12 V AC  |

|   |  |
|---|--|
| Rated Insulation Voltage (U <sub>i</sub> )                        | acc. to IEC/EN 60664-1 500 V   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 8 kV   |
| Input Voltage Type  | AC/DC  |
| Rated Current (I <sub>n</sub> )                                   | 80 A   |
| Rated Operational Current (I <sub>e</sub> )                       | 80 A   |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )                   | (400 V) 15 kA<br>(230 V) 15 kA   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (240 / 415 V AC) 25 kA<br>(254 / 440 V AC) 15 kA<br>(250 V DC) 10 kA<br>(230 V) 25 kA<br>(400 V) 25 kA               |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> )        | (230 V) 25 kA<br>(400 V) 25 kA   |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (240 / 415 V AC) 18 kA<br>(254 / 440 V AC) 10 kA<br>(125 V DC) 10 kA   |
| Frequency (f)   | 50 / 60 Hz   |
| Rated Frequency (f)   | 50...60 Hz   |
| Power Loss  | 12.8 W<br>at Rated Operating Conditions per Pole 6.4 W   |
| Contact Position Indication                                       | ON / OFF / TRIP  |
| Energy Limiting Class   | 3  |
| Electrical Endurance  | 6000 cycle<br>4000 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  | D  |
| 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   | 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   |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x I <sub>e</sub> |

|   |                                   |
|---|-----------------------------------|
| Resistance to Shock acc.<br>to IEC 60068-2-27 | 5 g<br>30 ms                      |
| RoHS Status                                   | Following EU Directive 2011/65/EU |
| Environmental<br>Information                  | 2CCY413207D0203                   |

## Technical UL/CSA

|                                       |   |
|---------------------------------------|---|
| Interrupting Rating acc.<br>to UL1077 | (480Y / 277 V AC) 10 kA<br>(250 V DC) 10 kA |
|---------------------------------------|---|

## Dimensions

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

## Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 105 mm        |
| Package Level 1 Height            | 99 mm         |
| Package Level 1 Depth /<br>Length | 60 mm         |
| Package Level 1 Gross<br>Weight   | 510 g         |
| Package Level 1 EAN               | 7612271213619 |

## Ordering

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

## Certificates and Declarations (Document Number)

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

## Popular Downloads

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 2CCC413003C0208 |
| Instructions and<br>Manuals          | 2CCC413016M0008 |

Dimension Diagram

2CCC413003C0201

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**Classifications**

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|                            |  |
|----------------------------|--|
| 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   |
| eClass                     | V11.0 : 27141901   |
| Object Classification Code | F  |

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**Categories**

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

