

PRODUCT-DETAILS

# S803C-D100

## S803C-D100 High Performance MCB



### General Information

|                       |                                 |
|-----------------------|---------------------------------|
| Extended Product Type | S803C-D100                      |
| Product ID            | 2CCS883001R0821                 |
| EAN                   | 7612271213787                   |
| Catalog Description   | S803C-D100 High Performance MCB |

#### Long Description

The S803C-D100 is a 3-pole High Performance Circuit breaker with D-Characteristic, with cage terminal and a rated current of 100 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 S803C-D100 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 S803C-D100 more comfortable. Due to the fast arc extinction of S803C-D100 your application will be secured.

### Technical

|                           |   |
|---------------------------|---|
| Standards                 | IEC/EN 60947-2<br>IEC/EN 60898-1<br>UL 1077 |
| Number of Poles           | 3   |
| Number of Protected Poles | 3   |
| Tripping Characteristic   | D   |
| Rated Current ( $I_n$ )   | 100 A                                       |
| Rated Operational Voltage | 254/440 V AC<br>375 V DC                    |

|   |  |
|---|--|
| Power Loss  | 24 W<br>at Rated Operating Conditions per Pole 8 W   |
| Rated Insulation Voltage (U <sub>i</sub> )                        | 500 V AC   |
| Operational Voltage   | Maximum 230/400 V AC<br>Minimum 12 V AC  |
| Rated Frequency (f)   | 50...60 Hz   |
| 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>(375 V DC) 10 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>(375 V DC) 10 kA   |
| Energy Limiting Class   | 3  |
| Overvoltage Category  | IV   |
| Pollution Degree  | 3  |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 8 kV   |
| Housing Material  | Insulation group I, RAL 7035   |
| Actuator Marking  | I / O  |
| Contact Position Indication                                       | ON / OFF / TRIP  |
| Degree of Protection  | IP20   |
| Remarks   | Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw |
| Electrical Endurance  | 6000 cycle<br>4000 cycle   |
| Terminal Type   | Screw Terminals  |
| Connecting Capacity   | Rigid 0 ... 50 mm <sup>2</sup><br>Flexible 0 ... 70 mm <sup>2</sup>  |
| Tightening Torque   | 3.5 N·m<br>31 in·lb  |
| Recommended Screw Driver  | Pozidriv 2   |
| 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  |
| Built-In Depth (t <sub>2</sub> )                                  | 82.5 mm  |

## Environmental

|  |   |
|--|---|
| Ambient Air Temperature                        | Operation -25...60 °C   |
| Reference Ambient Air Temperature              | acc. to IEC60947-2 30 °C<br>acc. to EN60898-1 30 °C   |
| Resistance to Shock acc. to IEC 60068-2-27     | 5 g<br>30 ms  |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x 1e   |
| 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 |
| RoHS Status                                    | Following EU Directive 2011/65/EU   |

## Technical UL/CSA

|                          |                         |
|--------------------------|-------------------------|
| Interrupting Rating acc. | (480Y / 277 V AC) 10 kA |
|--------------------------|-------------------------|

to UL1077

(375 V DC) 10 kA

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## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 81 mm   |
| Product Net Depth / Length | 82.5 mm |
| Product Net Height         | 95 mm   |
| Product Net Weight         | 735 g   |

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## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 105 mm        |
| Package Level 1 Depth / Length | 86 mm         |
| Package Level 1 Height         | 99 mm         |
| Package Level 1 Gross Weight   | 770 g         |
| Package Level 1 EAN            | 7612271213787 |

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## Ordering

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|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85362020 |

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## Certificates and Declarations (Document Number)

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|--------------------------------|------------------------------------|
| Declaration of Conformity - CE | 2CCC413016D0601                    |
| Environmental Information      | 2CCY413207D0203                    |
| Instructions and Manuals       | 2CCC413016M0008                    |
| RoHS Information               | 2CCC413016D0601<br>9AKK107680A3903 |

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## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CCC413003C0208 |
| Instructions and Manuals          | 2CCC413016M0008 |
| Dimension Diagram                 | 2CCC413003C0201 |

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## Classifications

|                            |  |
|----------------------------|--|
| Object Classification Code | F  |
| ETIM 6                     | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 7                     | EC000042 - Miniature circuit breaker (MCB) |

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## Categories

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

