

PRODUCT-DETAILS

# S803S-D63

## S803S-D63 High Performance MCB



### General Information

|                       |                                |
|-----------------------|--------------------------------|
| Extended Product Type | S803S-D63                      |
| Product ID            | 2CCS863001R0631                |
| EAN                   | 7612271201289                  |
| Catalog Description   | S803S-D63 High Performance MCB |

|                  |  |
|------------------|--|
| Long Description | <p>The S803S-D63 is a 3-pole High Performance Circuit breaker with D-Characteristic, with cage terminal and a rated current of 63 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 S803S-D63 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 S803S-D63 more comfortable. Due to the fast arc extinction of S803S-D63 your application will be secured.</p> |
|------------------|--|

### Technical

|                                 |  |
|---------------------------------|--|
| Standards                       | IEC/EN 60947-2, IEC/EN 60898-1, UL 1077  |
| Tripping Characteristic         | D  |
| Type of Residual Current        | standard version   |
| Rated Voltage (U <sub>r</sub> ) | acc. to IEC 60947-2 690 V AC<br>acc. to IEC 60947-2 375 V DC<br>acc. to IEC 60898-1 400 V AC |
| Rated Operational Voltage       | acc. to IEC 60947-2 690 V AC<br>acc. to IEC 60947-2 375 V DC<br>acc. to IEC 60898-1 400 V AC |
| Operational Voltage             | Maximum 230/400 V AC   |

|   |  |
|---|--|
|   | Minimum 12 V AC  |
| Rated Insulation Voltage (U <sub>i</sub> )                        | acc. to IEC/EN 60664-1 690 V   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 8 kV   |
| Input Voltage Type  | AC/DC  |
| Rated Current (I <sub>n</sub> )                                   | 63 A   |
| Rated Operational Current (I <sub>e</sub> )                       | 63 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<br>(230 V) 50 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  | 19.2 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>6000 cycle   |
| Number of Poles   | 3  |
| Number of Protected Poles   | 3  |
| Overtoltage 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<br>acc. to IEC 60068-2-6 | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le |
| 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) 14 kA<br>(600Y / 347 V AC) 6 kA |
|---------------------------------------|---|

## Dimensions

|  |           |
|--|-----------|
| Width in Number of<br>Modular Spacings | 4.5       |
| Product Net Width                      | 81 mm     |
| Product Net Height                     | 95 mm     |
| Product Net Depth /<br>Length          | 82.5 mm   |
| Product Net Weight                     | 735 g     |
| Product Net Length                     | 81 mm     |
| Size                                   | 3 modules |
| Built-In Depth (t <sub>2</sub> )       | 88.5 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 | 86 mm         |
| Package Level 1 Gross<br>Weight   | 770 g         |
| Package Level 1 EAN               | 7612271201289 |

## Ordering

|                        |                  |
|------------------------|------------------|
| Minimum Order Quantity | 1 piece          |
| Customs Tariff Number  | 85362010         |
| E-Number (Finland)     | 3212258          |
| E-Number (Switzerland) | 807785315        |
| 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                  | 2CCC005083D0202, 9AKK107680A3903 |

## Popular Downloads

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

## Information

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 2CCC413016M0008 |
| Dimension Diagram        | 2CCC413003C0201 |

---

**Classifications**

|                            |  |
|----------------------------|--|
| 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

