

PRODUCT-DETAILS

# S803S-B8

## S803S-B8 High Performance MCB



### General Information

|                       |                               |
|-----------------------|-------------------------------|
| Extended Product Type | S803S-B8                      |
| Product ID            | 2CCS863001R0085               |
| EAN                   | 7612271411343                 |
| Catalog Description   | S803S-B8 High Performance MCB |

#### Long Description

The S803S-B8 is a 3-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 8 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-B8 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 S803S-B8 more comfortable. Due to the fast arc extinction of S803S-B8 your application will be secured.

### Technical

|                                 |                           |
|---------------------------------|---------------------------|
| Standards                       | IEC/EN 60947-2<br>UL 1077 |
| Number of Poles                 | 3                         |
| Number of Protected Poles       | 3                         |
| Tripping Characteristic         | B                         |
| Rated Current (I <sub>n</sub> ) | 8 A                       |
| Rated Operational Voltage       | 400/690 V AC<br>375 V DC  |
| Rated Voltage (U <sub>r</sub> ) | 240/415 V                 |

|   |  |
|---|--|
| Power Loss  | 5.1 W<br>at Rated Operating Conditions per Pole 1.7 W  |
| Rated Insulation Voltage (U <sub>i</sub> )                        | 690 V AC   |
| Rated Frequency (f)   | 50...60 Hz   |
| 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) 6 kA<br>(125 V DC) 30 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                      |
| 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  | 10000 cycle<br>10000 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 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. to UL1077 | (480Y / 277 V AC) 14 kA<br>(600Y / 347 V AC) 6 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            | 7612271411343 |

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## Ordering

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

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## Certificates and Declarations (Document Number)

|                                |                                    |
|--------------------------------|------------------------------------|
| 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) |
| ETIM 8                     | 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

