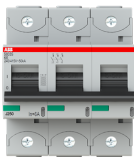




PRODUCT-DETAILS

# S803S-K6

## S803S-K6 High Performance MCB



General Information

|                       |                               |
|-----------------------|-------------------------------|
| Extended Product Type | S803S-K6                      |
| Product ID            | 2CCS863001R0067               |
| EAN                   | 7612271408244                 |
| Catalog Description   | S803S-K6 High Performance MCB |

|                  |   |
|------------------|---|
| Long Description | <p>The S803S-K6 is a 3-pole High Performance Circuit breaker with K-Characteristic, with cage terminal and a rated current of 6 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.</p> <p>It has two different tripping mechanisms, the thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. The S803S-K6 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-K6 more comfortable. Due to the fast arc extinction of S803S-K6 your application will be secured.</p> |
|------------------|---|

Technical

|                                 |  |
|---------------------------------|--|
| Standards                       | IEC/EN 60947-2, IEC/EN 60898-1, UL 1077  |
| Tripping Characteristic         | K  |
| 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 60898-1 400 V  |

|   |  |
|---|--|
| 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> )                                   | 6 A  |
| Rated Operational Current (I <sub>e</sub> )                       | 6 A  |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (415 V) 50 kA<br>(690 V) 6 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...50 Hz   |
| Rated Frequency (f)   | 50/60 Hz   |
| Power Loss  | 5.1 W<br>at Rated Operating Conditions per Pole 1.7 W  |
| Contact Position Indication                                       | ON / OFF / TRIP  |
| Energy Limiting Class   | 3  |
| Electrical Endurance  | 10000 cycle  |
| Mechanical Endurance  | 10000 cycle  |
| Number of Protected Poles   | 3  |
| Number of Poles   | 3  |
| Overvoltage Category  | IV   |
| Tightening Torque   | 3.5 N·m<br>31 in·lb  |
| Release Type  | K  |
| 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   | Flexible 0 ... 50 mm²<br>Rigid 0 ... 70 mm²  |
| Terminal Type   | Screw Terminals  |

Material Compliance

|   |                                    |
|---|------------------------------------|
| RoHS Information                            | 9AKK107680A3903<br>2CCC005083D0202 |
| RoHS Status                                 | Following EU Directive 2011/65/EU  |
| RoHS Date                                   | 20170426                           |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                    |

Environmental

|                                   |   |
|-----------------------------------|---|
| Ambient Temperature               | -25...60 °C   |
| Ambient Air Temperature           | Operation -25 ... 60 °C                             |
| Reference Ambient Air Temperature | acc. to IEC60947-2 40 °C<br>acc. to EN60898-1 40 °C |
| Degree of Protection              | IP20  |

|                           |  |
|---------------------------|--|
| Pollution Degree          | 3  |
| Resistance to Vibrations  | 1 mm 2 - 13.2 Hz<br>0.7g with Load 100% x le 13.2 - 100 Hz |
| Environmental Information | 2CCY413207D0203  |

Technical UL/CSA

|                                    |   |
|------------------------------------|---|
| Interrupting Rating acc. to UL1077 | (480Y / 277 V AC) 14 kA<br>(600Y / 347 V AC) 6 kA |
|------------------------------------|---|

Dimensions

|                                     |                 |
|-------------------------------------|-----------------|
| Width in Number of Modular Spacings | 4.5             |
| Product Net Width                   | 81 mm           |
| Product Net Height                  | 95 mm           |
| Product Net Depth / Length          | 82.5 mm         |
| Product Net Weight                  | 735 g           |
| Size                                | 3_modules       |
| Built-In Depth (t <sub>2</sub> )    | 82.5 mm         |
| Dimension Diagram                   | 2CCC413003C0201 |

Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 770 g       |
| E-Number (Finland)           | 3212329     |

Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CCC005083D0202 |
|--------------------------------|-----------------|

Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 2CCC413016M0008 |
|--------------------------|-----------------|

Popular Downloads

|                                   |   |
|-----------------------------------|---|
| Data Sheet, Technical Information | 9AKK108468A9560<br>9AKK108468A9561<br>9AKK108468A9562 |
|-----------------------------------|---|

Classifications

|                            |  |
|----------------------------|--|
| ETIM 8                     | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 9                     | EC000042 - Miniature circuit breaker (MCB)                 |
| 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  |

---

## Categories

---

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

