



PRODUCT-DETAILS

# S801S-K8

## High Performance MCB



| General Information   |  |
|-----------------------|--|
| Extended Product Type | S801S-K8   |
| Product ID            | 2CCS861001R0407  |
| EAN                   | 7612271411442  |
| Catalog Description   | High Performance MCB   |
| Long Description      | <p>The S801S-K8 is a 1-pole High Performance Circuit breaker with K-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 S801S-K8 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 S801S-K8 more comfortable. Due to the fast arc extinction of S801S-K8 your application will be secured.</p> |

| Technical |   |
|-----------|---|
| Standards | IEC/EN 60947-2<br>IEC/EN 60898-1<br>UL 1077 |

|   |  |
|---|--|
| Tripping Characteristic   | K  |
| Rated Operational Voltage   | acc. to IEC 60898-1 230 V AC<br>acc. to IEC 60947-2 400 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> )                                   | 8 A  |
| Rated Short-Circuit Capacity                                      | (230 / 400 V AC) 25 kA   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (240 V AC) 50 kA<br>(254 V AC) 30 kA<br>(289 / 500 V AC) 15 kA<br>(400 V AC) 6 kA<br>(125 V DC) 30 kA                |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (240 V AC) 40 kA<br>(254 V AC) 22.5 kA<br>(289 / 500 V AC) 11 kA<br>(400 V AC) 4 kA<br>(125 V DC) 30 kA              |
| Frequency (f)   | 50...60 Hz   |
| Rated Frequency (f)   | 50/60 Hz   |
| Power Loss  | 1.5 W<br>at Rated Operating Conditions per Pole 1.5 W  |
| Contact Position Indication                                       | ON / OFF / TRIP  |
| Energy Limiting Class   | 3  |
| Electrical Endurance  | 10000 cycle  |
| Mechanical Endurance  | 10000 cycle  |
| Number of Protected Poles   | 1  |
| Number of Poles   | 1P   |
| 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 mm <sup>2</sup><br>Rigid 0 ... 70 mm <sup>2</sup>  |
| Terminal Type   | Screw Terminals  |

## Material Compliance

|                   |                                    |
|-------------------|------------------------------------|
| RoHS Information  | 9AKK107680A3903<br>2CCC005083D0202 |
| RoHS Status       | Following EU Directive 2011/65/EU  |
| RoHS Date         | 20170426                           |
| REACH Declaration | 9AKK108468A3036                    |

|   |   |
|---|---|
| REACH Information                           | False - does not contain substances > 0.1 mass percentage |
| REACH Date                                  | 20200527  |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363   |

Environmental

|                                   |  |
|-----------------------------------|--|
| Ambient Air Temperature           | Operation -25 ... +60 °C<br>Storage -40 ... +70 °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 1e 13.2 - 100 Hz |
| Environmental Information         | 2CCY413207D0203  |

Technical UL/CSA

|                                    |   |
|------------------------------------|---|
| Interrupting Rating acc. to UL1077 | (240 V AC) 30 kA<br>(277 V AC) 14 kA<br>(347 V AC) 6 kA |
|------------------------------------|---|

Dimensions

|                                     |                 |
|-------------------------------------|-----------------|
| Width in Number of Modular Spacings | 1.5             |
| Product Net Width                   | 27 mm           |
| Product Net Height                  | 95 mm           |
| Product Net Depth / Length          | 82.5 mm         |
| Product Net Weight                  | 245 g           |
| 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 | 270 g       |
| E-Number (Norway)            | 1628425     |

Certificates and Declarations

|                                |                  |
|--------------------------------|------------------|
| CB Certificate                 | 9AKK107680A0857  |
| CCC Certificate                | 9AKK108469A3021  |
| Declaration of Conformity - CE | 2CCCC005083D0202 |
| DNV GL Certificate             | 2CCC413018D0201  |
| ESTI Certificate               | 2CCC413020D0101  |
| KC Certificate                 | 9AKK107680A0932  |
| LR Certificate                 | 2CCC413017D0201  |

|                 |                 |
|-----------------|-----------------|
| UL Certificate  | 9AKK107680A2286 |
| VDE Certificate | 2CCC413039D0601 |

Installation

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

Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK108468A9560 |
|                                   | 9AKK108468A9561 |
|                                   | 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   |
| UNSPSC                             | 39121603   |
| eClass                             | V11.0 : 27141901   |
| IDEA Granular Category Code (IGCC) | 4899 >> Miniature circuit breaker (MCB) screw-in model     |
| Object Classification Code         | F  |

Categories

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



