



PRODUCT-DETAILS

# S801S-D6

## S801S-D6 High Performance MCB



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | S801S-D6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product ID            | 2CCS861001R0061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EAN                   | 7612271408183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Catalog Description   | S801S-D6 High Performance MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Long Description      | <p>The S801S-D6 is a 1-pole High Performance Circuit breaker with D-Dharacteristic, 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 S801S-D6 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-D6 more comfortable. Due to the fast arc extinction of S801S-D6 your application will be secured.</p> |

| Technical                       |                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------|
| Standards                       | IEC/EN 60947-2, IEC/EN 60898-1, UL 1077                                                          |
| Tripping Characteristic         | D                                                                                                |
| Rated Voltage (U <sub>r</sub> ) | acc. to IEC 60947-2 400 V AC<br>acc. to IEC 60947-2 125 V DC<br>acc. to IEC 60898-1 230/400 V AC |
| Rated Operational Voltage       | acc. to IEC 60898-1 230 V                                                                        |

|                                                                   |                                                                                                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Rated Insulation Voltage<br>(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 Short-Circuit Capacity                                      | (230 V) 25 kA<br>(400 V) 25 kA                                                                                       |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (240 V) 50 kA<br>(400 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...60 Hz                                                                                                           |
| Rated Frequency (f)                                               | 50/60 Hz                                                                                                             |
| Power Loss                                                        | 1.8 W<br>at Rated Operating Conditions per Pole 1.8 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                                                   | 1                                                                                                                    |
| Overvoltage 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                                               | 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   | acc. to IEC60947-2 30 °C |

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Temperature               | acc. to EN60898-1 30 °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           |
| Size                                | 1_module        |
| 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 (Finland)           | 3212317     |

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                                                   |

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

