



PRODUCT-DETAILS

# S801C-C10

## S801C-C10 High Performance MCB



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | S801C-C10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product ID            | 2CCS881001R0104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EAN                   | 7612271212124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Catalog Description   | S801C-C10 High Performance MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Long Description      | The S801C-C10 is a 1-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 10 A. It is a current limiting device with a maximum breaking capacity of 25kA at 240/415V. It can be used for voltages up to 254/440V 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 S801C-C10 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 S801C-C10 more comfortable. Due to the fast arc extinction of S801C-C10 your application will be secured. |

| ABB EcoSolutions          |                                                                |
|---------------------------|----------------------------------------------------------------|
| ABB EcoSolutions          | Yes                                                            |
| EcoSolutions Profile      | 9AKK108471A1082                                                |
| Recyclability Rate of the | Design for Closing Resource Loops - Standard EN45555 - 86.29 % |

Product acc. to EN45555

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| ABB Site Meeting Group                  | No non-hazardous waste is sent to a landfill |
| Waste To Landfill Target                |                                              |
| End Of Life Disassembling Instructions  | 9AKK108470A2575                              |
| Environmental Product Declaration - EPD | 9AKK108470A1695<br>9AKK108470A1696           |

## Technical

|                                                             |                                                                                                                      |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (240 V AC) 25 kA<br>(254 V AC) 15 kA<br>(125 V DC) 10 kA                                                             |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (240 V AC) 25 kA<br>(254 V AC) 10 kA<br>(125 V DC) 10 kA                                                             |
| 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                                                                                                                   |
| Tightening Torque                                           | 3.5 N·m<br>31 in·lb                                                                                                  |
| Release Type                                                | C                                                                                                                    |
| Actuator Marking                                            | I / O                                                                                                                |
| 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                                                                                                      |

## Electrical

|                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| Tripping Characteristic                       | C                                                            |
| Rated Operational Voltage                     | acc. to IEC 60898-1 230 V AC<br>acc. to IEC 60947-2 240 V AC |
| Operational Voltage                           | Maximum 230/400 V AC<br>Minimum 12 V AC                      |
| Rated Insulation Voltage ( $U_i$ )            | acc. to IEC/EN 60664-1 500 V                                 |
| Rated Impulse Withstand Voltage ( $U_{imp}$ ) | 8 kV                                                         |
| Input Voltage Type                            | AC/DC                                                        |
| Rated Current ( $I_n$ )                       | 10 A                                                         |
| Rated Short-Circuit Capacity                  | (230 / 400 V AC) 15 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        |

Overvoltage Category

IV

## Design

Housing Material

Insulation group I, RAL 7035

## Technical UL/CSA

Interrupting Rating acc.  
to UL1077(240 V AC) 20 kA  
(347 V AC) 10 kA  
(125 V DC) 10 kA

## Material Compliance

RoHS Declaration

2CCCC005083D0202

RoHS Information

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

RoHS Date

20211214

REACH Declaration

9AKK108470A9089

REACH Information

False - does not contain substances &gt; 0.1 mass percentage

REACH Date

20250313

Conflict Minerals  
Reporting Template  
(CMRT)

9AKK108468A3363

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

WEEE B2C / B2B

Business To Business

## Environmental

Ambient Air  
TemperatureOperation -25 ... +60 °C  
Storage -40 ... +70 °CReference Ambient Air  
Temperatureacc. to IEC60947-2 30 °C  
acc. to EN60898-1 30 °C

Degree of Protection

IP20

Pollution Degree

3

Resistance to Vibrations

1 mm 2 - 13.2 Hz  
0.7g with Load 100% x 1e 13.2 - 100 HzResistance to Shock acc.  
to IEC 60068-2-275 g  
30 msEnvironmental  
Information

2CCY413207D0203

## 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

| Engineering |                  |
|-------------|------------------|
| EPLAN Data  | 9AAC210421_EPLAN |

| Ordering                     |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 270 g       |

| Certificates and Declarations  |                                    |
|--------------------------------|------------------------------------|
| CB Certificate                 | 9AKK107680A0835<br>2CCC413029D0202 |
| CCC Certificate                | CQC2014010307713173                |
| Declaration of Conformity - CE | 2CCC005083D0202                    |
| ESTI Certificate               | 2CCC413028D0101                    |
| UL Certificate                 | 9AKK107680A2286                    |
| VDE Certificate                | 2CCC413039D0601                    |

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

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK108468A9560 |
|                                   | 9AKK108468A9561 |
|                                   | 9AKK108468A9562 |

| External Classifications and Standards |                                             |
|----------------------------------------|---------------------------------------------|
| ETIM 9                                 | EC000042 - Miniature circuit breaker (MCB)  |
| ETIM 10                                | EC000042 - Miniature circuit breaker (MCB)  |
| UNSPSC                                 | 39121603                                    |
| eClass                                 | V11.0 : 27141901                            |
| Object Classification Code             | F                                           |
| Standards                              | IEC/EN 60947-2<br>IEC/EN 60898-1<br>UL 1077 |

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## Categories

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



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