

# S203P-C20



## General Information

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extended Product Type:</b> | S203P-C20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Product ID:</b>            | 2CDS283001R0204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>EAN:</b>                   | 4016779590624                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Catalog Description:</b>   | Miniature Circuit Breakers MCBs - S200P - Number of Poles 3 - Tripping characteristic C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Long Description:</b>      | System pro M compact S200P miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 25 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200P comply with IEC/EN 60898-1, IEC/EN 609 47-2, UL1077 and CSA 22.2 No. 235, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200P to save 50% space. |

## Categories

Products » Low Voltage Products and Systems » Modular DIN Rail Products » Miniature Circuit Breakers MCBs

## Accessories [Show accessory images](#)

| Identifier                      | Description                              | Type          | Qty |
|---------------------------------|------------------------------------------|---------------|-----|
| <a href="#">2CDS200922R0001</a> | S2C-S/H6R Universal Auxiliary/Signal Con | S2C-S/H6R     | 1   |
| <a href="#">2CDS200912R0001</a> | S2C-H6R Auxiliary Contact                | S2C-H6R       | 1   |
| <a href="#">2CDS200970R0001</a> | S2C-H01 Bottom-fitting auxiliary contact | S2C-H01       | 1   |
| <a href="#">2CDS200970R0002</a> | S2C-H10 Bottom-fitting auxiliary contact | S2C-H10       | 1   |
| <a href="#">2CDS200936R0001</a> | S2C-H11L Auxiliary Contact               | S2C-H11L      | 1   |
| <a href="#">2CDS200936R0002</a> | S2C-H20L Auxiliary Contact               | S2C-H20L      | 1   |
| <a href="#">2CDS200936R0003</a> | S2C-H02L Auxiliary Contact               | S2C-H02L      | 1   |
| <a href="#">2CDS200946R0001</a> | S2C-H6-11R Auxiliary contact             | S2C-H6-11R    | 1   |
| <a href="#">2CDS200946R0002</a> | S2C-H6-20R Auxiliary contact             | S2C-H6-20R    | 1   |
| <a href="#">2CDS200946R0003</a> | S2C-H6-02R Auxiliary contact             | S2C-H6-02R    | 1   |
| <a href="#">2CDS200909R0001</a> | S2C-A1 Shunt Trip, 12...60V              | S2C-A1        | 1   |
| <a href="#">2CDS200909R0002</a> | S2C-A2 Shunt Trip, 110...415V            | S2C-A2        | 1   |
| <a href="#">2CSS200911R0001</a> | S2C-UA 12 DC Undervoltage release        | S2C-UA 12 DC  | 1   |
| <a href="#">2CSS200911R0002</a> | S2C-UA 24 AC Undervoltage release        | S2C-UA 24 AC  | 1   |
| <a href="#">2CSS200911R0003</a> | S2C-UA 48 AC Undervoltage release        | S2C-UA 48 AC  | 1   |
| <a href="#">2CSS200911R0004</a> | S2C-UA 110 AC Undervoltage release       | S2C-UA 110 AC | 1   |
| <a href="#">2CSS200911R0005</a> | S2C-UA 230 AC Undervoltage release       | S2C-UA 230 AC | 1   |
| <a href="#">2CSS200911R0006</a> | S2C-UA 400 AC Undervoltage release       | S2C-UA 400 AC | 1   |
| <a href="#">2CSS200911R0007</a> | S2C-UA 24 DC Undervoltage release        | S2C-UA 24 DC  | 1   |
| <a href="#">2CSS200911R0008</a> | S2C-UA 48 DC Undervoltage release        | S2C-UA 48 DC  | 1   |
| <a href="#">2CSS200911R0009</a> | S2C-UA 110 DC Undervoltage release       | S2C-UA 110 DC | 1   |
| <a href="#">2CSS200911R0010</a> | S2C-UA 230 DC Undervoltage release       | S2C-UA 230 DC | 1   |
| <a href="#">2CSS201997R0013</a> | S2C-CM1 Motor operating device           | S2C-CM1       | 1   |
| <a href="#">2CSS203997R0013</a> | S2C-CM2/3 Motor operating device         | S2C-CM2/3     | 1   |
| <a href="#">2CSS204997R0013</a> | S2C-CM4 Motor operating device           | S2C-CM4       | 1   |
| <a href="#">GHS2001901R0003</a> | S2C-DH Rotary operating mechanism        | S2C-DH        | 1   |
| <a href="#">2CSS200998R0001</a> | S2C-BP - Mechanical tripping device      | S2C-BP        | 1   |
| <a href="#">2CSS200999R0001</a> | S2C-EST - Plug-in base                   | S2C-EST       | 1   |
| <a href="#">2CDS200918R0001</a> | S2C-Nt Hand operated neutral             | S2C-NT        | 1   |

|                        |                                                                      |           |   |
|------------------------|----------------------------------------------------------------------|-----------|---|
| <b>2CCA880100R0001</b> | Sensor 18mm, 80A AC, DC, TRMS, mounting for pro M compact & SMISLINE | CMS-100PS | 1 |
| <b>2CCA880101R0001</b> | Sensor 18mm, 40A AC, DC, TRMS, mounting for pro M compact & SMISLINE | CMS-101PS | 1 |
| <b>2CCA880102R0001</b> | Sensor 18mm, 20A AC, DC, TRMS, mounting for pro M compact & SMISLINE | CMS-102PS | 1 |

## Ordering

|                                |               |
|--------------------------------|---------------|
| <b>EAN:</b>                    | 4016779590624 |
| <b>Minimum Order Quantity:</b> | 1 piece       |
| <b>Customs Tariff Number:</b>  | 85362010      |

## Dimensions

|                            |          |
|----------------------------|----------|
| <b>Product Net Width:</b>  | 52.5 mm  |
| <b>Product Net Depth:</b>  | 69.0 mm  |
| <b>Product Net Height:</b> | 88.0 mm  |
| <b>Product Net Weight:</b> | 0.420 kg |

## Container Information

|                                      |               |
|--------------------------------------|---------------|
| <b>Package Level 1 Units:</b>        | 1 piece       |
| <b>Package Level 1 Width:</b>        | 92.0 mm       |
| <b>Package Level 1 Length:</b>       | 58.0 mm       |
| <b>Package Level 1 Height:</b>       | 80.0 mm       |
| <b>Package Level 1 Gross Weight:</b> | 0.435 kg      |
| <b>Package Level 1 EAN:</b>          | 4016779597159 |

## Environmental

|                                                        |                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------|
| <b>Ambient Air Temperature:</b>                        | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C              |
| <b>Resistance to Shock acc. to IEC 60068-2-27:</b>     | 25g / 2 shocks / 13 ms                                          |
| <b>Resistance to Vibrations acc. to IEC 60068-2-6:</b> | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In            |
| <b>Environmental Conditions:</b>                       | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 %       |
| <b>RoHS Status:</b>                                    | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

## Technical

|                                                      |                                                                 |
|------------------------------------------------------|-----------------------------------------------------------------|
| <b>Standards:</b>                                    | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077<br>CSA 22.2 No. 235 |
| <b>Number of Poles:</b>                              | 3                                                               |
| <b>Tripping Characteristic:</b>                      | C                                                               |
| <b>Rated Current (I<sub>N</sub>):</b>                | 20.00 A                                                         |
| <b>Rated Operational Voltage:</b>                    | acc. to IEC60898-1 400 V AC<br>acc. to IEC60947-2 400 V AC      |
| <b>Power Loss:</b>                                   | 8.7 W<br>Per Pole 2.9 W                                         |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>     | acc. to IEC/EN 60664-1 440 V                                    |
| <b>Operational Voltage:</b>                          | Maximum (incl. tolerance) 440 V AC<br>Minimum 12 V AC / 12 V DC |
| <b>Rated Frequency (f):</b>                          | 50 Hz<br>60 Hz                                                  |
| <b>Rated Short-Circuit Capacity (I<sub>cn</sub>)</b> | 25 kA                                                           |

):

|                                                                              |                                                                                                                                                                                                          |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b> | 25 kA                                                                                                                                                                                                    |
| <b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>  | 12.5 kA                                                                                                                                                                                                  |
| <b>Energy Limiting Class:</b>                                                | 3                                                                                                                                                                                                        |
| <b>Overvoltage Category:</b>                                                 | III                                                                                                                                                                                                      |
| <b>Pollution Degree:</b>                                                     | 3                                                                                                                                                                                                        |
| <b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>               | 4 kV<br>(6.2 kV @ sea level) kV<br>(5.0 kV @ 2000 m) kV                                                                                                                                                  |
| <b>Dielectric Test Voltage:</b>                                              | 50 / 60 Hz, 1 min: 2 kV                                                                                                                                                                                  |
| <b>Housing Material:</b>                                                     | Insulation group II, RAL 7035                                                                                                                                                                            |
| <b>Actuator Type:</b>                                                        | Insulation group II, black, sealable                                                                                                                                                                     |
| <b>Actuator Marking:</b>                                                     | I / O                                                                                                                                                                                                    |
| <b>Contact Position Indication:</b>                                          | Red ON / Green OFF                                                                                                                                                                                       |
| <b>Degree of Protection:</b>                                                 | IP20                                                                                                                                                                                                     |
| <b>Remarks:</b>                                                              | IP40 in enclosure with cover                                                                                                                                                                             |
| <b>Electrical Endurance:</b>                                                 | 20000 AC cycle                                                                                                                                                                                           |
| <b>Mechanical Endurance:</b>                                                 | 20000 cycle                                                                                                                                                                                              |
| <b>Terminal Type:</b>                                                        | Screw Terminals                                                                                                                                                                                          |
| <b>Screw Terminal Type:</b>                                                  | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                                                                           |
| <b>Connecting Capacity:</b>                                                  | Busbar 10 / 10 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup><br>Flexible 0.75 ... 16 mm <sup>2</sup><br>Rigid 0.75 ... 25 mm <sup>2</sup><br>Stranded 0.75 ... 25 mm <sup>2</sup> |
| <b>Tightening Torque:</b>                                                    | 2.8 N·m                                                                                                                                                                                                  |
| <b>Recommended Screw Driver:</b>                                             | Pozidriv 2                                                                                                                                                                                               |
| <b>Mounting on DIN Rail:</b>                                                 | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                                                           |
| <b>Mounting Position:</b>                                                    | Any                                                                                                                                                                                                      |

## Technical UL/CSA

|                                            |                                               |
|--------------------------------------------|-----------------------------------------------|
| <b>Maximum Operating Voltage UL/CSA:</b>   | 480Y / 277 V AC                               |
| <b>Connecting Capacity UL/CSA:</b>         | Busbar 18 ... 8 AWG<br>Conductor 18 ... 4 AWG |
| <b>Tightening Torque UL/CSA:</b>           | 25 in·lb                                      |
| <b>Interrupting Rating acc. to UL1077:</b> | 10 kA                                         |

## Certificates and Declarations (Document Number)

|                                        |                 |
|----------------------------------------|-----------------|
| <b>Declaration of Conformity - CE:</b> | 2CDK403003D0401 |
| <b>RoHS Information:</b>               | 2CDK400003K0201 |

## Classifications

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| <b>E-nummer:</b>                   | 2102145                                    |
| <b>ETIM 4.0:</b>                   | EC000042 - Miniature circuit breaker (MCB) |
| <b>ETIM 5.0:</b>                   | EC000042 - Miniature circuit breaker (MCB) |
| <b>Object Classification Code:</b> | F                                          |