

## General Information

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| <b>Extended Product Type:</b> | S201-C20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Product ID:</b>            | 2CDS251001R0204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>EAN:</b>                   | 4016779464505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Catalog Description:</b>   | Miniature Circuit Breaker - S200 - 1P - C - 20 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Long Description:</b>      | System pro M compact S200 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 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 and CSA 22.2 No. 235, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space. |

## Additional Information

|                                           |                                                                                                                                                                                                          |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Actuator Material:</b>                 | Insulation Group II, Black, Sealable                                                                                                                                                                     |
| <b>Actuator Type:</b>                     | Insulation group II, black, sealable                                                                                                                                                                     |
| <b>Ambient Air Temperature:</b>           | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C                                                                                                                                                       |
| <b>Built-In Depth (t<sub>2</sub>):</b>    | 69 mm                                                                                                                                                                                                    |
| <b>Connecting Capacity:</b>               | Busbar 10 / 10 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 25 mm <sup>2</sup><br>Flexible 0.75 ... 25 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup><br>Stranded 0.75 ... 35 mm <sup>2</sup> |
| <b>Connecting Capacity UL/CSA:</b>        | Busbar 18-8 AWG<br>Conductor 18-4 AWG                                                                                                                                                                    |
| <b>Contact Position Indication:</b>       | Red ON / Green OFF                                                                                                                                                                                       |
| <b>Country of Origin:</b>                 | Germany (DE)                                                                                                                                                                                             |
| <b>Customs Tariff Number:</b>             | 85362010                                                                                                                                                                                                 |
| <b>Data Sheet, Technical Information:</b> | 2CDC002157D0102                                                                                                                                                                                          |
| <b>Declaration of Conformity - CE:</b>    | 2CDK403001D0604                                                                                                                                                                                          |
| <b>Degree of Protection:</b>              | IP20                                                                                                                                                                                                     |
| <b>Dielectric Test Voltage:</b>           | 50 / 60 Hz, 1 min: 2 kV                                                                                                                                                                                  |
| <b>E-number:</b>                          | 2100522                                                                                                                                                                                                  |
| <b>EAN:</b>                               | 4016779464505                                                                                                                                                                                            |
| <b>EPLAN Catalog Tree:</b>                | Electrical engineering / Protection devices / General                                                                                                                                                    |
| <b>EPLAN Function Definition:</b>         | Circuit breaker / Single circuit breaker / Circuit breaker 1_2                                                                                                                                           |
| <b>EPLAN Macro:</b>                       | 9AKK106713A8090                                                                                                                                                                                          |
| <b>ETIM 4:</b>                            | EC000042 - Miniature circuit breaker (MCB)                                                                                                                                                               |
| <b>ETIM 5:</b>                            | EC000042 - Miniature circuit breaker (MCB)                                                                                                                                                               |
| <b>ETIM 6:</b>                            | EC000042 - Miniature circuit breaker (MCB)                                                                                                                                                               |
| <b>Electrical Endurance:</b>              | 20000 AC cycle                                                                                                                                                                                           |
| <b>Energy Limiting Class:</b>             | 3                                                                                                                                                                                                        |
| <b>Environmental Conditions:</b>          | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 %                                                                                                                                                |
| <b>Environmental Information:</b>         | 2CDK400030D0201                                                                                                                                                                                          |
| <b>Frequency (f):</b>                     | 50 Hz                                                                                                                                                                                                    |
| <b>Housing Material:</b>                  | Insulation Group II RAI 7035                                                                                                                                                                             |

|                                     |                                                                                                                                                      |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessories                         | Installation Group II, Type 1000                                                                                                                     |
| Industrial IT Certification Level:  | 0                                                                                                                                                    |
| Installation Size:                  | acc. to DIN 43880 1                                                                                                                                  |
| Instructions and Manuals:           | 2CSC400002D0208                                                                                                                                      |
| Interrupting Rating acc. to UL1077: | (133 V AC) 6 kA<br>(277 V AC) 6 kA<br>(480Y / 277 V AC) 6 kA<br>(60 V DC) 10 kA                                                                      |
| Invoice Description:                | S201-C 20 Mini Circuit Breaker C-Char.,6kA,20A,1P                                                                                                    |
| Maximum Operating Voltage UL/CSA:   | 60 V DC<br>480Y/277 V AC                                                                                                                             |
| Mechanical Endurance:               | 20000 cycle                                                                                                                                          |
| Minimum Order Quantity:             | 1 piece                                                                                                                                              |
| Mounting Position:                  | Any                                                                                                                                                  |
| 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                                       |
| Number of Poles:                    | 1                                                                                                                                                    |
| Number of Protected Poles:          | 1                                                                                                                                                    |
| Object Classification Code:         | F                                                                                                                                                    |
| Operational Voltage:                | Maximum (Incl. Tolerance) 253 V AC<br>Maximum (Incl. Tolerance) 72 V DC<br>Maximum 253 V AC<br>Maximum 72 V DC<br>Minimum 12 V AC<br>Minimum 12 V DC |
| Overvoltage Category:               | III                                                                                                                                                  |
| Package Level 1 EAN:                | 4016779606905                                                                                                                                        |
| Package Level 1 Gross Weight:       | 1.295 kg                                                                                                                                             |
| Package Level 1 Height:             | 80 mm                                                                                                                                                |
| Package Level 1 Length:             | 183 mm                                                                                                                                               |
| Package Level 1 Units:              | 10 piece                                                                                                                                             |
| Package Level 1 Width:              | 92 mm                                                                                                                                                |
| Package Level 2 EAN:                | 4016779970754                                                                                                                                        |
| Package Level 2 Gross Weight:       | 14.8 kg                                                                                                                                              |
| Package Level 2 Height:             | 210 mm                                                                                                                                               |
| Package Level 2 Length:             | 395 mm                                                                                                                                               |
| Package Level 2 Units:              | 120 piece                                                                                                                                            |
| Package Level 2 Width:              | 275 mm                                                                                                                                               |
| Pole Net Weight:                    | 0.115 kg                                                                                                                                             |
| Pollution Degree:                   | 3                                                                                                                                                    |
| Power Loss:                         | 2.5 W<br>at Rated Operating Conditions per Pole 2.5 W                                                                                                |
| Power Supply Connection:            | Arbitrary                                                                                                                                            |
| Product Main Type:                  | S200                                                                                                                                                 |
| Product Name:                       | Miniature Circuit Breaker                                                                                                                            |
| Product Net Depth:                  | 69 mm                                                                                                                                                |
| Product Net Height:                 | 88 mm                                                                                                                                                |
| Product Net Weight:                 | 0.125 kg                                                                                                                                             |
| Product Net Width:                  | 17.5 mm                                                                                                                                              |
| Product Range:                      | S200                                                                                                                                                 |
| Rated Current (I <sub>n</sub> ):    | 20 A                                                                                                                                                 |
| Rated Frequency (f):                | 50 Hz                                                                                                                                                |

|                                                                         |                                                                    |
|-------------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                         | 60 Hz                                                              |
| <b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>               | 4 kV<br>(6.2 kV @ sea level)<br>(5.0 kV @ 2000 m)                  |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>                        | acc. to IEC/EN 60664-1 440 V                                       |
| <b>Rated Operational Voltage:</b>                                       | acc. to IEC 60898-1 230 / 400 V AC<br>acc. to IEC 60947-2 230 V AC |
| <b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>  | (133 V AC) 15 kA                                                   |
| <b>Rated Short-Circuit Capacity (I<sub>cn</sub>):</b>                   | (230 / 400 V AC) 6 kA                                              |
| <b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b> | (133 V AC) 20 kA<br>(230 V AC) 10 kA                               |
| <b>Rated Voltage (U<sub>r</sub>):</b>                                   | 230 V AC                                                           |
| <b>Recommended Screw Driver:</b>                                        | Pozidriv 2                                                         |
| <b>Reference Ambient Air Temperature:</b>                               | 30 °C                                                              |
| <b>Remarks:</b>                                                         | IP40 in enclosure with cover                                       |
| <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>RoHS Date:</b>                                                       | 0335                                                               |
| <b>RoHS Information:</b>                                                | 2CDK400003K0201                                                    |
| <b>RoHS Status:</b>                                                     | Following EU Directive 2002/95/EC August 18, 2005 and amendment    |
| <b>Screw Terminal Type:</b>                                             | Failsafe Bi-directional Cylinder-lift Terminal                     |
| <b>Selling Unit of Measure:</b>                                         | piece                                                              |
| <b>Short Description:</b>                                               | S201-C 20 Mini Circuit Breaker                                     |
| <b>Standards:</b>                                                       | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077                        |
| <b>Terminal Type:</b>                                                   | Screw Terminals                                                    |
| <b>Tightening Torque:</b>                                               | 2.8 N·m                                                            |
| <b>Tightening Torque UL/CSA:</b>                                        | 25 in·lb                                                           |
| <b>Tripping Characteristic:</b>                                         | C                                                                  |
| <b>UNSPSC:</b>                                                          | 39121614                                                           |
| <b>Width in Number of Modular Spacings:</b>                             | 1                                                                  |
| <b>eClass:</b>                                                          | 7.0 27141901                                                       |
| <b>Accessories Available:</b>                                           | Yes                                                                |

#### Accessories

#### 32 Products

Filter

| Identifier      | Description                    | Type      | Qty | Unit Of Measure |
|-----------------|--------------------------------|-----------|-----|-----------------|
| 2CCA880100R0001 | CMS-100PS                      | CMS-100PS | 1   | piece           |
| 2CCA880101R0001 | CMS-101PS                      | CMS-101PS | 1   | piece           |
| 2CCA880102R0001 | CMS-102PS                      | CMS-102PS | 1   | piece           |
| 2CDS200909R0001 | S2C-A1 - Shunt Trip            | S2C-A1    | 1   | piece           |
| 2CDS200909R0002 | S2C-A2 - Shunt Trip            | S2C-A2    | 1   | piece           |
| 2CDS200912R0001 | S2C-H6R - Auxiliary Contact    | S2C-H6R   | 1   | piece           |
| 2CDS200918R0001 | S2C-NT - Hand Operated Neutral | S2C-NT    | 1   | piece           |

| 2CDS200922R0001<br><b>Identifier</b> | S2C-S/H6R - Signal / Auxiliary Contact<br><b>Description</b> | S2C-S/H6R<br><b>Type</b> | 1<br><b>Qty</b> | piece<br><b>Unit Of Measure</b> |
|--------------------------------------|--------------------------------------------------------------|--------------------------|-----------------|---------------------------------|
| 2CDS200936R0001                      | S2C-H11L - Auxiliary Contact                                 | S2C-H11L                 | 1               | piece                           |
| 2CDS200936R0002                      | S2C-H20L - Auxiliary Contact                                 | S2C-H20L                 | 1               | piece                           |
| 2CDS200936R0003                      | S2C-H02L - Auxiliary Contact                                 | S2C-H02L                 | 1               | piece                           |
| 2CDS200946R0001                      | S2C-H6-11R - Auxiliary Contact                               | S2C-H6-11R               | 1               | piece                           |
| 2CDS200946R0002                      | S2C-H6-20R - Auxiliary Contact                               | S2C-H6-20R               | 1               | piece                           |
| 2CDS200946R0003                      | S2C-H6-02R - Auxiliary Contact                               | S2C-H6-02R               | 1               | piece                           |
| 2CDS200970R0001                      | S2C-H01 - Auxiliary Contact                                  | S2C-H01                  | 1               | piece                           |
| 2CDS200970R0002                      | S2C-H10 - Auxiliary Contact                                  | S2C-H10                  | 1               | piece                           |
| 2CSS200911R0001                      | S2C-UA 12 DC - Undervoltage release                          | S2C-UA 12 DC             | 1               | piece                           |
| 2CSS200911R0002                      | S2C-UA 24 AC - Undervoltage release                          | S2C-UA 24 AC             | 1               | piece                           |
| 2CSS200911R0003                      | S2C-UA 48 AC - Undervoltage release                          | S2C-UA 48 AC             | 1               | piece                           |
| 2CSS200911R0004                      | S2C-UA 110 AC - Undervoltage release                         | S2C-UA 110 AC            | 1               | piece                           |
| 2CSS200911R0005                      | S2C-UA 230 AC - Undervoltage release                         | S2C-UA 230 AC            | 1               | piece                           |
| 2CSS200911R0006                      | S2C-UA 400 AC - Undervoltage release                         | S2C-UA 400 AC            | 1               | piece                           |
| 2CSS200911R0007                      | S2C-UA 24 DC - Undervoltage release                          | S2C-UA 24 DC             | 1               | piece                           |
| 2CSS200911R0008                      | S2C-UA 48 DC - Undervoltage release                          | S2C-UA 48 DC             | 1               | piece                           |
| 2CSS200911R0009                      | S2C-UA 110 DC - Undervoltage release                         | S2C-UA 110 DC            | 1               | piece                           |
| 2CSS200911R0010                      | S2C-UA 230 DC - Undervoltage release                         | S2C-UA 230 DC            | 1               | piece                           |
| 2CSS200998R0001                      | S2C-BP - Mechanical tripping device                          | S2C-BP                   | 1               | piece                           |
| 2CSS200999R0001                      | S2C-EST - Plug-in base                                       | S2C-EST                  | 1               | piece                           |
| 2CSS201997R0013                      | S2C-CM1 - Motor operating device                             | S2C-CM1                  | 1               | piece                           |
| 2CSS203997R0013                      | S2C-CM2/3 - Motor operating device                           | S2C-CM2/3                | 1               | piece                           |
| 2CSS204997R0013                      | S2C-CM4 - Motor operating device                             | S2C-CM4                  | 1               | piece                           |
| GHS2001901R0003                      | S2C-DH - Mechanical Accessories                              | S2C-DH                   | 1               | piece                           |

