

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

General Information

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| Extended Product Type: | S203P-C50 |
| Product ID: | 2CDS283001R0504 |
| EAN: | 4016779590662 |
| Catalog Description: | Miniature Circuit Breaker - S200P - 3P - C |
| Long Description: | 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. |

Additional Information

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| ABB Industry Usage Level 2: | TRA.2 - Railway |
| Actuator Material: | Insulation Group II, Black, Sealable |
| Actuator Type: | Insulation group II, black, sealable |
| Ambient Air Temperature: | Operation -25 ... +55 °C Storage -40 ... +70 °C |
| Built-In Depth (t₂): | 69 mm |
| Connecting Capacity: | Busbar 10 / 10 mm ² Flexible with Ferrule 0.75 ... 16 mm ² Flexible 0.75 ... 16 mm ² Rigid 0.75 ... 25 mm ² Stranded 0.75 ... 25 mm ² |
| Connecting Capacity UL/CSA: | Busbar 18-8 AWG Conductor 18-4 AWG |
| Contact Position Indication: | Red ON / Green OFF |
| Country of Origin: | Germany (DE) |
| Customs Tariff Number: | 85362010 |
| Data Sheet, Technical Information: | 9AKK106930A8017 |
| Declaration of Conformity - CE: | 2CDK403003D0402 |
| Degree of Protection: | IP20 |
| Dielectric Test Voltage: | 50 / 60 Hz, 1 min: 2 kV |
| E-number: | 2102149 |
| EAN: | 4016779590662 |
| EPLAN Catalog Tree: | Electrical engineering / Protection devices / General |
| EPLAN Function Definition: | Circuit breaker / Triple circuit breaker / Triple circuit breaker 1_2_3_4_5_6 |
| EPLAN Macro: | 9AKK106713A8198 |
| ETIM 4: | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 5: | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 6: | EC000042 - Miniature circuit breaker (MCB) |
| Electrical Endurance: | 10000 AC cycle |
| Energy Limiting Class: | 3 |
| Environmental Conditions: | 28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 % |
| Environmental Information: | 2CDK400030D0201 |
| Housing Material: | Insulation Group II RAI 7035 |

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| Industrial IT Certification Level: | 0 |
| Installation Size: | acc. to DIN 43880 1 |
| Instructions and Manuals: | 2CSC400002D0208 |
| Interrupting Rating acc. to UL1077: | (480 V AC) 10 kA (480Y / 277 V AC) 6 kA |
| Invoice Description: | S203P-C50 Miniature Circuit Breaker C-Char., 15kA, 50A, 3P |
| Maximum Operating Voltage UL/CSA: | 480Y/277 V AC |
| Mechanical Endurance: | 20000 cycle |
| Minimum Order Quantity: | 1 piece |
| Mounting Position: | Any |
| Mounting on DIN Rail: | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |
| Number of Poles: | 3 |
| Number of Protected Poles: | 3 |
| Object Classification Code: | F |
| Operational Voltage: | Maximum (Incl. Tolerance) 440 V AC Maximum 440 V AC Minimum 12 V AC Minimum 12 V DC |
| Overvoltage Category: | III |
| Package Level 1 EAN: | 4016779597487 |
| Package Level 1 Gross Weight: | 0.435 kg |
| Package Level 1 Height: | 80 mm |
| Package Level 1 Length: | 58 mm |
| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 92 mm |
| Pole Net Weight: | 0.14 kg |
| Pollution Degree: | 3 |
| Power Loss: | 9 W at Rated Operating Conditions per Pole 3 W |
| Power Supply Connection: | Arbitrary |
| Product Main Type: | S200P |
| Product Name: | Miniature Circuit Breaker |
| Product Net Depth: | 69 mm |
| Product Net Height: | 88 mm |
| Product Net Weight: | 0.42 kg |
| Product Net Width: | 52.5 mm |
| Product Range: | S200P |
| Rated Current (I _n): | 50 A |
| Rated Frequency (f): | 50 Hz 60 Hz |
| Rated Impulse Withstand Voltage (U _{imp}): | 4 kV (6.2 kV @ sea level) (5.0 kV @ 2000 m) |
| Rated Insulation Voltage (U _i): | acc. to IEC/EN 60664-1 440 V |
| Rated Operational Voltage: | acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 400 V AC |
| Rated Service Short-Circuit Breaking Capacity (I _{cs}): | (400 V AC) 7.5 kA |
| Rated Short-Circuit Capacity (I _{cn}): | (400 V AC) 15 kA |
| Rated Ultimate Short-Circuit Breaking | (400 V AC) 15 kA |

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| Capacity (I_{cu}): | |
| Rated Voltage (U_r): | 400 V AC |
| Recommended Screw Driver: | Pozidriv 2 |
| Reference Ambient Air Temperature: | 30 °C |
| Remarks: | IP40 in enclosure with cover |
| Resistance to Shock acc. to IEC 60068-2-27: | 25g / 2 shocks / 13 ms |
| Resistance to Vibrations acc. to IEC 60068-2-6: | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In |
| RoHS Date: | 0335 |
| RoHS Information: | 2CDK400003K0201 |
| RoHS Status: | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| Screw Terminal Type: | Failsafe Bi-directional Cylinder-lift Terminal |
| Selling Unit of Measure: | piece |
| Short Description: | S203P-C50 Miniature Circuit Breaker |
| Standards: | IEC/EN 60898-1 IEC/EN 60947-2 UL 1077 CSA 22.2 No. 235 |
| Terminal Type: | Screw Terminals |
| Tightening Torque: | 2.8 N·m |
| Tightening Torque UL/CSA: | 25 in·lb |
| Tripping Characteristic: | C |
| UNSPSC: | 39121614 |
| Width in Number of Modular Spacings: | 3 |
| eClass: | 7.0 27141901 |
| Accessories Available: | Yes |
| Actuator Marking: | I / O |
| EPLAN Graphical Macro: | 9AKK106713A8199 |

Accessories

| 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 | S2C-S/H6R - Signal / Auxiliary Contact | S2C-S/H6R | 1 | piece |
| 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 |

| Identific | Description | Type | Qty | Unit Of Measure |
|-----------------|--------------------------------------|---------------|-----|-----------------|
| 2CDS200946R0003 | S2C-H6-02R - Auxiliary Contact | S2C-H6-02R | | |
| 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 |

