PRODUCT-DETAILS

# S302P-C20

## Miniature Circuit Breaker - S300P - 2P - 20 A - C - (AC) 25 kA



### General Information

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|---|---|
| **Extended Product Type:** | S302P-C20 |
| **Product ID:** | 2CDS382001R0204 |
| **EAN:** | 4016779078818 |
| **Catalog Description:** | Miniature Circuit Breaker - S300P - 2P - 20 A - C - (AC) 25 kA |
| **Long Description:** | The MCBs S300P series assures protection in industrial installations against overload and short circuits. This product is manufactured according to international IEC and UL standards, for the markets where it is required. |
| **Display Name:** | S302P-C20 |

### ABB EcoSolutions

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|---|---|
| **ABB EcoSolutions Profile:** | 9AKK108472A4555 |
| **Recyclability Rate of the Product acc. to EN45555:** | Design for Closing Resource Loops - Standard EN45555 - 63.8 % |
| **Improved Energy Efficiency for Customers:** | Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line |
| **Extended Product Lifetime:** | Product Durability is Enhanced |

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|---|---|
| **End Of Life Disassembling Instructions:** | 9AKK108467A9801 |
| **Environmental Product Declaration - EPD:** | 9AKK108467A7130 |

## Technical

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| **Dielectric Test Voltage:** | 50 / 60 Hz - 1 min 2 kV |
| **Rated Ultimate Short-Circuit Breaking Capacity ($I_{cu}$):** | (125 V DC) 25 kA<br>(415 V AC) 25 kA<br>(440 V AC) 15 kA<br>(400 V) 25 kA |
| **Rated Service Short-Circuit Breaking Capacity ($I_{cs}$):** | (125 V DC) 12.5 kA |
| **Power Supply Connection:** | Arbitrary |
| **Contact Position Indication:** | Red ON / Green OFF |
| **Electrical Endurance:** | 20000 AC cycle |
| **Mechanical Endurance:** | 20000 cycle |
| **Number of Protected Poles:** | 2 |
| **Number of Poles:** | 2P |
| **Tightening Torque:** | 2.8 N·m |
| **Screw Terminal Type:** | Failsafe Bi-directional Cylinder-lift Terminal |
| **Actuator Marking:** | I / O |
| **Actuator Material:** | Insulation Group II, Black, Sealable |
| **Recommended Screw Driver:** | Pozidriv 2 |
| **Accessories Available:** | Yes |
| **Connecting Capacity:** | Busbar 10/10 mm²<br>Flexible with Ferrule 0.75 ... 25 mm²<br>Flexible 0.75 ... 25 mm²<br>Flexible 0.75 ... 25 mm²<br>Rigid 0.75 ... 35 mm²<br>Stranded 0.75 ... 35 mm² |
| **Installation Size:** | acc. to DIN 43880 1 |
| **Wire Stripping Length:** | 14 mm |
| **Terminal Type:** | Screw Terminals |
| **Actuator Type:** | Toggle |

## Electrical

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| **Tripping Characteristic:** | C |
| **Rated Operational Voltage:** | acc. to IEC 60898-1 415 V AC<br>acc. to IEC 60947-2 415 V AC |
| **Operational Voltage:** | Maximum (Incl. Tolerance) 457 V AC<br>Maximum 457 V AC<br>Minimum 12 V AC<br>Minimum 12 V DC |
| **Rated Insulation Voltage ($U_i$):** | acc. to IEC/EN 60664-1 500 V |
| **Rated Impulse Withstand Voltage ($U_{imp}$):** | 6 kV |
| **Input Voltage Type:** | AC/DC |

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|---|---|
| **Rated Current ($I_n$):** | 20 A |
| **Rated Short-Circuit Capacity:** | (AC) 25 kA<br>(400 V) 25 kA |
| **Rated Frequency (f):** | 50 / 60 Hz<br>DC |
| **Power Loss:** | 4.6 W<br>at Rated Operating Conditions per Pole 2.3 W |
| **Overvoltage Category:** | IV |

## Design

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| **Housing Material:** | Insulation Group I, RAL 7035 |

## Technical UL/CSA

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|---|---|
| **Maximum Operating Voltage UL/CSA:** | 125 V DC<br>480Y / 277 V AC<br>480Y/277 V AC |
| **Interrupting Rating acc. to UL1077:** | (125 V DC) 10 kA<br>(480Y / 277 V AC) 10 kA |
| **Connecting Capacity UL/CSA:** | Busbar 18-8 AWG<br>Conductor 18-4 AWG |
| **Tightening Torque UL/CSA:** | 18 in·lb |

## Material Compliance

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|---|---|
| **RoHS Declaration:** | 9AKK108472A0372 |
| **RoHS Information:** | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| **RoHS Date:** | 20260312 |
| **REACH Declaration:** | 9AKK107492A1906 |
| **REACH Information:** | False - does not contain substances > 0.1 mass percentage |
| **REACH Date:** | 20260312 |
| **Conflict Minerals Reporting Template (CMRT):** | 9AKK108468A3363 |
| **Toxic Substances Control Act - TSCA:** | 9AKK108468A8104 |
| **WEEE Category:** | 5. Small Equipment (No External Dimension More Than 50 cm) |
| **WEEE B2C / B2B:** | Business To Business |

## Environmental

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| **Ambient Air Temperature:** | Operation -40 ... +70 °C<br>Storage -55 ... +70 °C |
| **Degree of Protection:** | IP20<br>IP40<br>Enclosure with Cover IP40 |
| **Pollution Degree:** | 3 |

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|---|---|
| **Environmental Conditions:** | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| **Resistance to Vibrations:** | 20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz |
| **Resistance to Shock acc. to IEC 60068-2-27:** | 25g 3 shocks 18 ms |

## Dimensions

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|---|---|
| **Width in Number of Modular Spacings:** | 2 |
| **Product Net Width:** | 35 mm |
| **Product Net Height:** | 88 mm |
| **Product Net Depth / Length:** | 69 mm |
| **Product Net Weight:** | 0.246 kg |
| **Pole Net Weight:** | 0.124 kg |
| **Built-In Depth ($t_2$):** | 69 mm |

## Engineering

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| **EPLAN Data:** | 9AAF617138_EPLAN |

## Ordering

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|---|---|
| **Package Level 1 Units:** | box 5 piece |
| **Package Level 1 Gross Weight:** | 1.27 kg |
| **E-Number (Finland):** | 3212259 |
| **E-Number (Norway):** | 1641762 |
| **E-Number (Sweden):** | 2101107 |

## Certificates and Declarations

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|---|---|
| **CB Certificate:** | 2CDZ405000A1089<br>2CDZ405000A1093 |
| **CCA Certificate:** | 2CDZ405000A1090<br>2CDZ405000A1094 |
| **CCC Certificate:** | 2CDZ405000A1097<br>2CDZ405000A1098 |
| **CQC Certificate:** | 2CDZ405000A1097<br>2CDZ405000A1098 |
| **CSA Certificate:** | 2CDZ405000A1102 |
| **Declaration of Conformity - CE:** | 9AKK107991A3220 |
| **Declaration of Conformity - UKCA:** | 9AKK107992A8877 |
| **DNV GL Certificate:** | 2CDZ405000A1155 |
| **EAC Certificate:** | 2CDZ405000A1092<br>2CDZ405000A1096 |

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|---|---|
| **NF Certificate:** | 2CDZ405000A1144 |
| **RINA Certificate:** | 2CDZ405000A1194 |
| **UL Certificate:** | 2CDZ405000A1101 |
| **VDE Certificate:** | 2CDZ405000A1191<br>2CDZ405000A1195 |

## Installation

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|---|---|
| **Instructions and Manuals:** | 2CDS207104P0002 |
| **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 |
| **Grid Distance:** | 75 mm |

## Popular Downloads

| | |
|---|---|
| **Data Sheet, Technical Information:** | 9AKK107992A4964 |

## External Classifications and Standards

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|---|---|
| **ETIM 9:** | EC000042 - Miniature circuit breaker (MCB) |
| **ETIM 10:** | EC000042 - Miniature circuit breaker (MCB) |
| **UNSPSC:** | 39121603 |
| **eClass:** | V11.0 : 27141901 |
| **IDEA Granular Category Code (IGCC):** | 4897 >> Miniature circuit breakers |
| **Object Classification Code:** | F |
| **Standards:** | CSA 22.2 No. 235<br>IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077 |
| **Certification Agency:** | CSA<br>IEC<br>EN<br>UL |
| **Standardization Body:** | EN<br>IEC<br>UL<br>CSA |

## Accessories

| Identifier | Description | Type | Qty | Unit Of Measure |
|---|---|---|---|---|
| 2CDS200922R0001 | S2C-S/H6R Universal Auxiliary/Signal Con | S2C-S/H6R | 1 | piece |
| 2CDS200912R0001 | S2C-H6R Auxiliary Contact 1CO | S2C-H6R | 1 | piece |
| 2CDS200970R0002 | S2C-H10 Bottom-fitting auxiliary contact 1NO | S2C-H10 | 1 | piece |

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| Identifier | Description | Type | Qty | Unit Of Measure |
|---|---|---|---|---|
| 2CDS200936R0001 | S2C-H11L Auxiliary Contact 1NO / 1NC, Left side mounting | S2C-H11L | 1 | piece |
| 2CDS200936R0002 | S2C-H20L Auxiliary Contact 2NO | S2C-H20L | 1 | piece |
| 2CDS200936R0003 | S2C-H02L Auxiliary Contact 2NC, Left side mounting | S2C-H02L | 1 | piece |
| 2CDS200946R0001 | S2C-H6-11R Auxiliary contact 1NO/1NC | S2C-H6-11R | 1 | piece |
| 2CDS200946R0002 | S2C-H6-20R Auxiliary contact 2NO | S2C-H6-20R | 1 | piece |
| 2CDS200946R0003 | S2C-H6-02R Auxiliary contact 2NC | S2C-H6-02R | 1 | piece |
| 2CDS200909R0001 | S2C-A1 Shunt Trip, 12...110V | S2C-A1 | 1 | piece |
| 2CDS200909R0002 | S2C-A2 Shunt Trip, 110...415V | S2C-A2 | 1 | piece |
| GHS2001901R0003 | S2C-DH Rotary operating mechanism | S2C-DH | 1 | piece |
| 2CSS200998R0001 | S2C-BP Mechanical tripping device | S2C-BP | 1 | piece |
| 2CSS200999R0001 | S2C-EST Plug-in base | S2C-EST | 1 | piece |
| 2CDS200918R0001 | S2C-Nt Hand operated neutral | S2C-NT | 1 | piece |
| 2CCA880100R0001 | CMS-100PS Sensor | CMS-100PS | 1 | piece |
| 2CCA880101R0001 | CMS-101PS Sensor | CMS-101PS | 1 | piece |
| 2CCA880102R0001 | CMS-102PS Sensor | CMS-102PS | 1 | piece |

## Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Miniature Circuit Breakers MCBs > Miniature Circuit Breakers MCBs > S300P







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