

PRODUCT-DETAILS

S201P-K20

Miniature Circuit Breaker - S200P - 1P - K - 20 ampere



General Information

| Extended Product Type | S201P-K20 |
|-----------------------|---|
| Product ID | 2CDS281001R0487 |
| EAN | 4016779592352 |
| Catalog Description | Miniature Circuit Breaker - S200P - 1P - K - 20 ampere |
| 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 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. |

| Technical | |
|------------------------------|---|
| Standards | CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077 |
| Number of Poles | 1 |
| Number of Protected Poles | 1 |
| Tripping Characteristic | К |
| Rated Current (In) | 20 A |
| Rated Operational Voltage | acc. to IEC 60947-2 230 V AC |
| Rated Voltage (Ur) | 230 V AC |

| Rated Insulation Voltage acc. to IEC/EN 60664-1 (U) Rated Trequency (f) Rated Trequency (f) (230 V AC) Rated Service Short- (230 V AC) Circuit Breaking (230 V AC) Capacity (iv.) Rated Service Short- Circuit Breaking (50 W @ 20 Overvoltage Category (50 W @ 20 Pollution Degree (52 V W @ 50 Rated Impulse (52 V W @ 50 Vithstand Voltage (Uimp (52 V W @ 50 Actuator Material Insulation Group II, PA Housing Material Insulation Group II, PA Actuator Material Insulation Group II, PA Contact Position Red ON / Greindication Indication 2000 Correct Position Red Service Service With Ferrule 0.75 | Power Loss | 10 W at Rated Operating Conditions per Pole 2.5 W |
|---|--|--|
| Rated Frequency (f) Reted Ultimate Short- Circuit Breaking Capacity (fu) Rated Service Short- Circuit Breaking Capacity (fu) Capacity (fu) Capacity (fuc) Coveroitage Category Pollution Degree Rated Impulse (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.2 kV @ se (5.0 kV @ 20 Withstand Voltage (Ulimp (5.0 kV @ 20 Withstand Voltage (Ulimp (5.0 kV @ 20 Voltage Category (5 | | acc. to IEC/EN 60664-1 440 V |
| Circuit Breaking Capacity (icu) Rated Service Short- Circuit Breaking Capacity (icu) Overvoltage Category Pollution Degree Rated Impulse (5.0 kV @ 24 (Kithstad Voltage (Uimp) (6.2 kV @ se) Housing Material Actuator Material Actuator Material Actuator Material Contact Position Contact Position Red ON / Gree Indication Degree of Protection Remarks (IP40 in enclosure with Contact Position Remarks IP40 in enclosure with Contact Position Remarks IP40 in enclosure with Contact Position Contact Position Pegree of Protection Remarks IP40 in enclosure with Contact Position Contact Posi | | 50 Hz |
| Rated Service Short- Circuit Breaking Capacity (vg.) (230 VAC): Circuit Breaking Capacity (vg.) Overvoltage Category Pollution Degree Rated Impulse (5.0 KV @ 24 (Withstand Voltage (Uimp) Rated Impulse (5.0 KV @ 24 (S2 kV @ se) Housing Material Insulation Group II, RA Actuator Marking Contact Position Red ON / Gree Indication Degree of Protection 2000 Terminal Type Screw Ter Screw Terminal Type Connecting Capacity Busbar 10 / I Flexible with Ferrule 0.75 Flexible with Ferrule 0.75 Flexible with Ferrule 0.75 Flexible with Ferrule 0.75 Flexible 0.75 Stranded 0.75 Flexible with Ferrule 0.75 Flexible 0.75 Stranded Screw Point 2000 Tightening Torque 2 Recommended Screw Point 2000 Driver Stranded 0.75 Stranded Dilt-In Depth (t ₂) Coneretion Envir | Circuit Breaking | 60 Hz (230 V AC) 25 kA |
| Pollution Degree Rated Impulse (5.0 kV @ 2((5.0 kV @ 2) | Rated Service Short- Circuit Breaking | (230 V AC) 12.5 kA |
| Rated Impulse (5.0 kV @ 24 Withstand Voltage (Uimp) (6.2 kV @ set (6.2 kV @ | Overvoltage Category | II |
| Withstand Voltage (Uimp (6.2 kV @ sec) housing Material Insulation Group II, RA Actuator Material Insulation Group II, RA Actuator Marking Contact Position Red ON / Gree Indication Degree of Protection Remarks IP40 in enclosure with 2000 Terminal Type Screw Ter Screw Terminal Type Screw Ter Screw Terminal Type Failsafe Bi-directional Cylinder-Iffs TE Connecting Capacity Busbar 10 / 1 Flexible with Ferrule 0.75 1 Rigid 0.75 2 Stranded 0.75 2 Stranded 0.75 2 Tightening Torque Poi Poi Driver Poi Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t ₂) Installation Size acc. to DIN 4 Power Supply Acc. to DIN 4 Connection Environmental Ambient Air Operation -25 Temperature Storage -40 Resistance to Shock acc. DIEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | Pollution Degree | 3 |
| Actuator Material Insulation Group II, Black, St Actuator Marking Contact Position Red ON / Gree Indication Pegree of Protection Remarks IP40 in enclosure with Screw Terminal Type Screw Ter Screw Terminal Type Failsafe Bi-directional Cylinder-lift Te Connecting Capacity Busbar 10 / 1 Flexible with Ferrule 0.75 1 Flexible with Ferrule 0.75 1 Flexible with Ferrule 0.75 2 Stranded 0.75 2 Tightening Torque Position Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC TH35-15 (35 x 1.5 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t ₂) Operation 2 Stranded Screw Position Built-In Depth (t ₂) Operation 2 Stranded Operation 2 Stranded Operation 2 Stranded Screw Position Built-In Depth (t ₂) Operation 2 Stranded Operation 2 Strand | Withstand Voltage (U _{imp} | (5.0 kV @ 2000 m) (6.2 kV @ sea level) 4 kV |
| Actuator Marking Contact Position Degree of Protection Remarks IP40 in enclosure with Remarks IP40 in enclosure with 2000 Terminal Type Screw Ter Screw Terminal Type Connecting Capacity Degree of Protection Capacity Substar 10 / 1 Elexible with Ferrule 0.75 1 Flexible vith Ferrule 0.75 1 Flexible 0.75 2 Stranded 0.75 2 Stranded 0.75 2 Stranded 0.75 2 Stranded 0.75 2 Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (tz) Installation Size Environmental Ambient Air Temperature Ambient Air Temperature Storage 40 Resistance to Shock acc. 25g / 2 shocks / Degree Storage 50 150 5 Hz with load | Housing Material | Insulation Group II, RAL 7035 |
| Contact Position Red ON / Gree Indication Pegree of Protection Remarks IP40 in enclosure with 2000 Erminal Type Screw Terminal Type Failsafe Bi-directional Cylinder-lift Te Connecting Capacity Busbar 10, 1 Flexible with Ferrule 0.75 Flexible with Ferrule 0.75 Tightening Torque 2 Recommended Screw Point Driver Point Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Mounting Position TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Built-In Depth (t2) Operation -25 Installation Size acc. to DIN 4 Power Supply Ar Connection Connection | Actuator Material | Insulation Group II, Black, Sealable |
| Indication Degree of Protection Remarks IP40 in enclosure with Comparison Comparison Performation Performatio | Actuator Marking | ١/٥ |
| Remarks IP40 in enclosure with 2000 Terminal Type Screw Ter Screw Terminal Type Failsafe Bi-directional Cylinder-lift Te Connecting Capacity Busbar 10 / 1 Flexible with Ferrule 0.75 1 Flexible with Ferrule 0.75 2 Flexible with Ferrule 0.75 2 Tightening Torque 2 Recommended Screw Poi Driver Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t ₂) Installation Size acc. to DIN 4 Power Supply Ar Connection Environmental Ambient Air Operation -25 Resistance to Shock acc. 25g / 2 shocks / Directions 5g, 20 cycles at 5 150 5 Hz with load | | Red ON / Green OFF |
| 2000 Terminal Type Screw Ter Screw Terminal Type Failsafe Bi-directional Cylinder-lift Te Connecting Capacity Busbar 10 / 1 Connecting Capacity Busbar 10 / 1 Flexible with Ferrule 0.75 1 Flexible vitible 0.75 1 Flexible or The Provide 0.75 2 Stranded 0.75 2 Tightening Torque 2 Recommended Screw Poi Driver Poi Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t2) Installation Size acc. to DIN 4 Power Supply Ar Connection Ar Connection Storage 40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | Degree of Protection | IP20 |
| Terminal Type Screw Ter Screw Terminal Type Failsafe Bi-directional Cylinder-lift Te Connecting Capacity Busbar 10 / 1 Flexible with Ferrule 0.75 1 Flexible 0.75 2 Stranded 0.75 2 Stranded 0.75 2 Stranded 0.75 2 Tightening Torque 2 Recommended Screw Poi Driver Poi Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t ₂) 1 Installation Size acc. to DIN 4 Power Supply Ar Connection Connection C | Remarks | IP40 in enclosure with cover |
| Screw Terminal Type Failsafe Bi-directional Cylinder-lift Te Connecting Capacity Busbar 10 / 1 Flexible with Ferrule 0.75 1 Flexible with Ferrule 0.75 1 Rigid 0.75 2 Stranded 0.75 2 Strande 0.7 | | 20000 cycle |
| Connecting Capacity Busbar 10 / 1 Flexible with Ferrule 0.75 1 Flexible with Ferrule 0.75 1 Flexible 0.75 2 Stranded 0.75 2 Tightening Torque 2 Recommended Screw Por Driver Priver Priver Priver Priver Priver Priver Por Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t_2) 0 Installation Size acc. to DIN 4 Power Supply Ar Connection Priver Storage -40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | Terminal Type | Screw Terminals |
| Flexible with Ferrule 0.75 1 Flexible 0.75 2 Rigid 0.75 2 Stranded 0.75 2 Tightening Torque Recommended Screw Driver Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t2) Installation Size Power Supply Connection Ambient Air Connection Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations | Screw Terminal Type | Failsafe Bi-directional Cylinder-lift Terminal |
| Tightening Torque 2 Recommended Screw Poi Driver Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t ₂) 2 Installation Size acc. to DIN 4 Power Supply Ar Connection C Environmental Ambient Air Operation -25 Temperature Storage -40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | 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 |
| Driver Mounting on DIN Rail TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t ₂) Installation Size acc. to DIN 4 Power Supply Connection Environmental Ambient Air Operation -25 Temperature Storage -40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | Tightening Torque | 2.8 N·m |
| TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC Mounting Position Built-In Depth (t ₂) Installation Size Power Supply Connection Environmental Ambient Air Temperature Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations | | Pozidriv 2 |
| Built-In Depth (t2) acc. to DIN 4 Installation Size acc. to DIN 4 Power Supply Ar Connection Connection Environmental Operation -25 Ambient Air Operation -25 Temperature Storage -40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Sg, 20 cycles at 5 150 5 Hz with load | 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 |
| Installation Size acc. to DIN 4 Power Supply Connection Environmental Ambient Air Operation -25 Temperature Storage -40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | Mounting Position | Any |
| Power Supply Ar Connection Ar Environmental Deration -25 Ambient Air Operation -25 Temperature Storage -40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Storage st 5 150 5 Hz with load | Built-In Depth (t ₂) | 69 mm |
| Connection Environmental Ambient Air Temperature Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | | acc. to DIN 43880 1 |
| Ambient AirOperation -25TemperatureStorage -40Resistance to Shock acc.25g / 2 shocks /to IEC 60068-2-27Storage -40Resistance to Vibrations5g, 20 cycles at 5 150 5 Hz with load | | Arbitrary |
| Temperature Storage -40 Resistance to Shock acc. 25g / 2 shocks / to IEC 60068-2-27 5g, 20 cycles at 5 150 5 Hz with load | Environmental | |
| Resistance to Shock acc.25g / 2 shocks /to IEC 60068-2-2725g / 2 shocks /Resistance to Vibrations5g, 20 cycles at 5 150 5 Hz with load | | Operation -25 +55 °C |
| to IEC 60068-2-27 Resistance to Vibrations 5g, 20 cycles at 5 150 5 Hz with load | · · · · · · · · · · · · · · · · · · · | Storage -40 +70 °C |
| | to IEC 60068-2-27 | 25g / 2 shocks / 13 ms |
| | | 5g, 20 cycles at 5 150 5 Hz with load 0.8 In |

28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %

Following EU Directive 2011/65/EU

Technical UL/CSA

Maximum Operating Voltage UL/CSA Connecting Capacity UL/CSA

Environmental

Conditions

RoHS Status

480Y/277 V AC

Busbar 18-8 AWG Conductor 18-4 AWG

| 25 in Ib |
|---|
| (277 V AC) 10 kA (480Y / 277 V AC) 10 kA |
| |

| Dimensions | |
|-------------------------------|---------|
| Product Net Width | 17.5 mm |
| Product Net Depth / Length | 69 mm |
| Product Net Height | 88 mm |
| Product Net Weight | 0.14 kg |

| Container Information | |
|-----------------------------------|-----------------|
| Package Level 1 Units | carton 10 piece |
| Package Level 1 Width | 92 mm |
| Package Level 1 Depth / Length | 183 mm |
| Package Level 1 Height | 80 mm |
| Package Level 1 Gross Weight | 1.45 kg |
| Package Level 1 EAN | 4016779595063 |

| Ordering | |
|------------------------|----------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85362010 |
| E-Number (Finland) | 3216248 |

| Certificates and Declarations (Document Nu | mber) |
|--|-----------------|
| Declaration of Conformity - CE | 2CDK403003D0403 |
| Environmental Information | 9AKK107680A6947 |
| Instructions and Manuals | 2CDS207104P0001 |
| RoHS Information | 2CDK403003D0403 |

| Popular Downloads | |
|--------------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK106930A8017 |
| Instructions and Manuals | 2CDS207104P0001 |

| Classifications | | |
|-------------------------------|--|--|
| Object Classification Code | F | |
| ETIM 6 | EC000042 - Miniature circuit breaker (MCB) | |
| ETIM 7 | EC000042 - Miniature circuit breaker (MCB) | |
| ETIM 8 | EC000042 - Miniature circuit breaker (MCB) | |
| eClass | V11.0 : 27141901 | |
| UNSPSC | 39121614 | |

| | | | | Accessories |
|-----------------|----------|------------------|--|-----------------|
| Unit (Measu | Quantity | Type Q | Description | Identifier |
| pie | 1 | S2C-S/H6R | S2C-S/H6R - Signal / Auxiliary Contact | 2CDS200922R0001 |
| pie | 1 | S2C-H6R | S2C-H6R - Auxiliary Contact | 2CDS200912R0001 |
| pie | 1 | S2C-H11L | S2C-H11L - Auxiliary Contact | 2CDS200936R0001 |
| pie | 1 | S2C-H20L | S2C-H20L - Auxiliary Contact | 2CDS200936R0002 |
| pie | 1 | S2C-H02L | S2C-H02L - Auxiliary Contact | 2CDS200936R0003 |
| pie | 1 | S2C-H6-11R | S2C-H6-11R - Auxiliary Contact | 2CDS200946R0001 |
| pie | 1 | S2C-H6-20R | S2C-H6-20R - Auxiliary Contact | 2CDS200946R0002 |
| pie | 1 | S2C-H6-02R | S2C-H6-02R - Auxiliary Contact | 2CDS200946R0003 |
| pie | 1 | S2C-A1 | S2C-A1 - Shunt Trip | 2CDS200909R0001 |
| pie | 1 | S2C-A2 | S2C-A2 - Shunt Trip | 2CDS200909R0002 |
| pie | 1 | S2C-UA 12 DC | S2C-UA 12 DC - Undervoltage release | 2CSS200911R0001 |
| pie | 1 | S2C-UA 24 AC | S2C-UA 24 AC - Undervoltage release | 2CSS200911R0002 |
| pie | 1 | S2C-UA 48 AC | S2C-UA 48 AC - Undervoltage release | 2CSS200911R0003 |
| pie | 1 | 2C-UA 110 AC | S2C-UA 110 AC - Undervoltage releaseS | 2CSS200911R0004 |
| pie | 1 | S2C-UA 230 AC | S2C-UA 230 AC - Undervoltage release | 2CSS200911R0005 |
| pie | 1 | S2C-UA 400 AC | S2C-UA 400 AC - Undervoltage release | 2CSS200911R0006 |
| pie | 1 | S2C-UA 24 DC | S2C-UA 24 DC - Undervoltage release | 2CSS200911R0007 |
| pie | 1 | S2C-UA 48 DC | S2C-UA 48 DC - Undervoltage release 9 | 2CSS200911R0008 |
| pie | 1 | 2C-UA 110 DC | S2C-UA 110 DC - Undervoltage releaseS | 2CSS200911R0009 |
| pie | 1 | S2C-UA 230 DC | S2C-UA 230 DC - Undervoltage release | 2CSS200911R0010 |
| pie | 1 | S2C-CM1 | S2C-CM1 - Motor operating device | 2CSS201997R0013 |
| pie | 1 | S2C-CM2/3 | S2C-CM2/3 - Motor operating device | 2CSS203997R0013 |
| pie | 1 | S2C-CM4 | S2C-CM4 - Motor operating device | 2CSS204997R0013 |
| pie | 1 | S2C-DH | S2C-DH - Mechanical Accessories | GHS2001901R0003 |
| pie | 1 | S2C-BP | S2C-BP - Mechanical tripping device | 2CSS200998R0001 |
| pie | 1 | S2C-EST | S2C-EST - Plug-in base | 2CSS200999R0001 |
| pie | 1 | S2C-NT | S2C-NT - Hand Operated Neutral | 2CDS200918R0001 |
| pie | 1 | CMS-100PS | CMS-100PS Sensor | 2CCA880100R0001 |
| pie | 1 | CMS-101PS | CMS-101PS Sensor | 2CCA880101R0001 |
| pie | 1 | CMS-102PS | CMS-102PS Sensor | 2CCA880102R0001 |

Categories

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

