

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

