

PRODUCT-DETAILS

S301P-Z1

S301P-Z1 Miniature Circuit Breaker - 1P - Z - 1 A



General Information	
Extended Product Type	S301P-Z1
Product ID	2CDS381001R0218
EAN	4016779080378
Catalog Description	S301P-Z1 Miniature Circuit Breaker - 1P - Z - 1 A
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.
ABB EcoSolutions	
ABB EcoSolutions	Yes
Circular Value	
Circular Value Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Circular Design Principles	
Circular Design Principles Recyclability Rate Sustainable Material	0 %
Circular Design Principles Recyclability Rate Sustainable Material Content Group Waste to Landfill	0 % No non-hazardous waste is sent to a landfill Product Efficiency - Product requires less energy to operate compared to
Circular Design Principles Recyclability Rate Sustainable Material Content Group Waste to Landfill Target Improved Resource	Design for Closing Resource Loops - Standard EN45555 - 90 % 0 % No non-hazardous waste is sent to a landfill Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line Product Durability

Services

End of Life Instructions 9AKK108467A9801

Eco Transparency	
Environmental Product Declaration - EPD	9AKK108467A7130

Technical	
Standards	CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077
Tripping Characteristic	Z
Rated Operational Voltage	acc. to IEC 60898-1 240 V AC acc. to IEC 60898-1 240 V acc. to IEC 60947-2 240 V AC
Operational Voltage	Maximum (Incl. Tolerance) 254 V AC Maximum 254 V AC Minimum 12 V AC 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
Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Input Voltage Type	AC/DC
Rated Current (I _n)	1 A
Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	(240 V AC) 100 kA (72 V DC) 25 kA (230 V) 100 kA
Rated Service Short- Circuit Breaking Capacity (I _{cs})	(240 V AC) 12.5 kA
Rated Frequency (f)	50 Hz 60 Hz 50 60 Hz
Power Loss	2.2 W at Rated Operating Conditions per Pole 2.2 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Electrical Endurance	20000 AC cycle
Mechanical Endurance	20000 cycle
Number of Poles	1
Number of Protected Poles	1
Overvoltage Category	IV
Tightening Torque	2.8 N·m
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	1/0
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group I, RAL 7035
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting Position	any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Busbar 10 / 10 mm² Flexible with Ferrule 0.75 25 mm² Flexible 0.75 25 mm² Flexible 0.75 25 mm² Rigid 0.75 35 mm² Stranded 0.75 35 mm²

Installation Size	acc. to DIN 43880 1 14 mm
Wire Stripping Length Terminal Type	Screw Terminal:
Terrimina Type	COCH TOTALING
Environmental	
Ambient Air Temperature	Operation -40 +70 °C Storage -55 +70 °C
Degree of Protection	IP2i IP4i Enclosure with Cover IP4i
Pollution Degree	Enclosure with cover if 4
Environmental Conditions	28 cycle: with 55 °C / 90-96 %
Resistance to Vibrations acc. to IEC 60068-2-6	and 25 °C / 95-100 % 5g, 20 cycles at 5 150 5 Hz with load 0.8 Ir
Resistance to Shock acc. to IEC 60068-2-27	25g 3 shocks 18 ms
RoHS Status	Following EU Directive 2011/65/EU
RoHS Information	9AKK107991A3220
REACH Declaration	9AKK107492A1906
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
Technical UL/CSA	
Maximum Operating Voltage UL/CSA	480Y / 277 V AC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(277 V AC) 10 kA (60 V DC) 10 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWC Conductor 18-4 AWC
Tightening Torque UL/CSA	18 in·lt
Dimensions	
Width in Number of Modular Spacings	•
Product Net Width	17.5 mn
Product Net Height	88 mn
Product Net Depth / Length	67.6 mn
Product Net Weight	0.124 kg
Pole Net Weight Built-In Depth (t ₂)	0.124 kg 69 mn
Ordering	
Package Level 1 Units Package Level 1 Gross	box 10 pieci 1.29 ki
Weight E-Number (Finland)	3212479
Certificates and Declarations	
CB Certificate	2CDZ405000A108
CCA Certificate	2CDZ405000A1093 2CDZ405000A1093
	2CDZ405000A1094

CCC Certificate	2CDZ405000A1097 2CDZ405000A1098			
Certification Agency	2CD2403000A1096 CSA			
,	IEC EN			
	UL			
CQC Certificate	2CDZ405000A1097 2CDZ405000A1098			
CSA Certificate	2CDZ405000A1096 2CDZ405000A1102			
Declaration of Conformity - CE	9AKK107991A3220			
Declaration of Conformity - UKCA	9AKK107992A8877			
DNV GL Certificate	2CDZ405000A1155			
EAC Certificate	2CDZ405000A1092 2CDZ405000A1096			
NF Certificate	2CDZ405000A1144			
RINA Certificate	2CDZ405000A1194			
UL Certificate	2CDZ405000A1101			
VDE Certificate	2CDZ405000A1191 2CDZ405000A1195			
Installation				
Instructions and Manuals	2CDS207104P0002			
Popular Downloads	01/4/40700041004			
Data Sheet, Technical Information	9AKK107992A4964			
Classifications				
ETIM 8	EC000042 - Miniature circuit breaker (MCB)			
ETIM 9	EC000042 - Miniature circuit breaker (MCB)			
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)			
WEEE B2C / B2B	Business To Business			
CN8	8536 20 10			
UNSPSC	39121603			
eClass	V11.0 : 27141901			
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers			
Object Classification Code	<u>F</u>			

Accessories

Identifier	Description	Туре	Quantity	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Signal / Auxiliary Contact	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact	S2C-H6R	1	piece
2CDS200970R0001	S2C-H01 Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0002	S2C-H10 Auxiliary Contact	S2C-H10	1	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact	S2C-H11L	11	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact	S2C-H20L	11	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	11	piece
2CDS200946R0003	S2C-H6-02R Auxiliary Contact	S2C-H6-02R	11	piece
2CDS200909R0001	S2C-A1 Shunt Trip	S2C-A1	11	piece
2CDS200909R0002	S2C-A2 Shunt Trip	S2C-A2	11	piece
2CSS200911R0001	S2C-UA 12 DC Undervoltage Release S	S2C-UA 12 DC	11	piece
2CSS200911R0002	S2C-UA 24 AC Undervoltage Release S	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC Undervoltage Release S	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 S	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC Undervoltage Release S	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
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
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

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





