

PRODUCT-DETAILS

S301P-Z50

S301P-Z50 Miniature Circuit Breaker - 1P - Z - 50 A

Contraction

General Information	
Extended Product Type	S301P-Z50
Product ID	2CDS381001R0578
EAN	4016779079983
Catalog Description	S301P-Z50 Miniature Circuit Breaker - 1P - Z - 50 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	Yee
Circular Value	
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Principles Recyclability Rate Sustainable Material	Design for Closing Resource Loops - Standard EN45555 - 90 % 0 %
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Offered with Extended Lifetime	Product Durability
Offered with Takeback Services	Take Back for Recycling
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 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 (In)	50 A
Rated Short-Circuit Capacity	(400 V) 25 kA
Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	(240 V AC) 25 kA (72 V DC) 25 kA (230 V) 25 kA
Rated Service Short- Circuit Breaking Capacity (I _{cs})	(240 V AC) 7.5 kA
Rated Frequency (f)	50 Hz
	60 Hz 50 60 Hz
Power Loss	5.2 W at Rated Operating Conditions per Pole 5.2 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Electrical Endurance	10000 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	I/O
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	
Wire Stripping Length	14 mm	
Terminal Type	Screw Terminals	

Environmental		
Ambient Air Temperature	Operation -40 +70 °C Storage -55 +70 °C	
Degree of Protection	IP20 IP40 Enclosure with Cover IP40	
Pollution Degree	3	
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %	
Resistance to Vibrations acc. to IEC 60068-2-6	5g, 20 cycles at 5 150 5 Hz with load 0.8 In	
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	480Y / 277 V AC
Voltage UL/CSA	480Y/277 V AC
Interrupting Rating acc.	(277 V AC) 10 kA
to UL1077	(60 V DC) 10 kA
Connecting Capacity	Busbar 18-8 AWG
UL/CSA	Conductor 18-4 AWG
Tightening Torque UL/CSA	18 in-Ib

Dimensions	
Width in Number of Modular Spacings	1
Product Net Width	17.5 mm
Product Net Height	88 mm
Product Net Depth / Length	67.6 mm
Product Net Weight	0.124 kg
Pole Net Weight	0.124 kg

Built-In Depth (t₂)

Ordering	
Package Level 1 Units	box 10 piece
Package Level 1 Gross Weight	1.29 kg
E-Number (Finland)	3212492

Certificates and Declarations	
CB Certificate	2CDZ405000A1089 2CDZ405000A1093
CCA Certificate	2CDZ405000A1090 2CDZ405000A1094
CCC Certificate	2CDZ405000A1097 2CDZ405000A1098
Certification Agency	CSA IEC EN UL
CQC Certificate	2CDZ405000A1097 2CDZ405000A1098
CSA Certificate	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	
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	

69 mm

IDEA Granular Category
Code (IGCC)
Object Classification

Code

Accessories

Unit Of Measure	uantity	Type Q	Description	Identifier
piece	1	S2C-S/H6R	S2C-S/H6R Signal / Auxiliary Contact	2CDS200922R0001
piece	1	S2C-H6R	S2C-H6R Auxiliary Contact	2CDS200912R0001
piece	1	S2C-H01	S2C-H01 Auxiliary Contact	2CDS200970R0001
piece	1	S2C-H10	S2C-H10 Auxiliary Contact	2CDS200970R0002
piece	1	S2C-H11L	S2C-H11L Auxiliary Contact	2CDS200936R0001
piece	1	S2C-H20L	S2C-H20L Auxiliary Contact	2CDS200936R0002
piece	1	S2C-H02L	S2C-H02L Auxiliary Contact	2CDS200936R0003
piece	1	S2C-H6-11R	S2C-H6-11R Auxiliary Contact	2CDS200946R0001
piece	1	S2C-H6-20R	S2C-H6-20R Auxiliary Contact	2CDS200946R0002
piece	1	S2C-H6-02R	S2C-H6-02R Auxiliary Contact	2CDS200946R0003
piece	1	S2C-A1	S2C-A1 Shunt Trip	2CDS200909R0001
piece	1	S2C-A2	S2C-A2 Shunt Trip	2CDS200909R0002
piece	1	S2C-UA 12 DC	S2C-UA 12 DC Undervoltage Release	2CSS200911R0001
piece	1	S2C-UA 24 AC	S2C-UA 24 AC Undervoltage Release	2CSS200911R0002
piece	1	S2C-UA 48 AC	S2C-UA 48 AC Undervoltage Release S	2CSS200911R0003
piece	1	2C-UA 110 AC	S2C-UA 110 AC Undervoltage Release S	2CSS200911R0004
piece	1	S2C-UA 230 AC	S2C-UA 230 AC Undervoltage Release	2CSS200911R0005
piece	1	S2C-UA 400 AC	S2C-UA 400 AC Undervoltage Release	2CSS200911R0006
piece	1	S2C-UA 24 DC	S2C-UA 24 DC Undervoltage Release S	2CSS200911R0007
piece	1	S2C-UA 48 DC	S2C-UA 48 DC Undervoltage Release S	2CSS200911R0008
piece	1	2C-UA 110 DC	S2C-UA 110 DC Undervoltage ReleaseS	2CSS200911R0009
piece	1	S2C-UA 230 DC	S2C-UA 230 DC Undervoltage Release	2CSS200911R0010
piece	1	S2C-CM1	S2C-CM1 Motor operating device	2CSS201997R0013
piece	1	S2C-CM2/3	S2C-CM2/3 Motor operating device	2CSS203997R0013
piece	1	S2C-CM4	S2C-CM4 Motor operating device	2CSS204997R0013
piece	1	S2C-DH	S2C-DH Mechanical Accessories	GHS2001901R0003
piece	1	S2C-BP	S2C-BP Mechanical tripping device	2CSS200998R0001
piece	1	S2C-EST	S2C-EST Plug-in base	2CSS200999R0001
piece	1	S2C-NT	S2C-NT Hand Operated Neutral	2CDS200918R0001
piece	1	CMS-100PS	CMS-100PS Sensor	2CCA880100R0001
piece	1	CMS-101PS	CMS-101PS Sensor	2CCA880101R0001
piece	1	CMS-102PS	CMS-102PS Sensor	2CCA880102R0001

Categories

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

4897 >> Miniature circuit breakers

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