

PRODUCT-DETAILS

S304P-Z50

S304P-Z50 Miniature Circuit Breaker - 4P - Z - 50 A



General Information	
Extended Product Type	\$304P-Z50
Product ID	2CDS384001R0578
EAN	4016779075992
Catalog Description	S304P-Z50 Miniature Circuit Breaker - 4P - 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 Yes

Circular Value	
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 90 %
Sustainable Material Content	0 %
Group Waste to Landfill Target	No non-hazardous waste is sent to a landfill
Improved Resource Efficiency for Customers	Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line

Offered with Extended Lifetime	Product Durability
Offered with Takeback Services	Take Back for Recycling
End of Life Instructions	9AKK108467A9801

Eco Transparency Environmental Product 9AKK108467A7130 Declaration - EPD

Technical	
Standards	CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077
Tripping Characteristic	Z
Rated Operational Voltage	acc. to IEC 60898-1 415 V AC acc. to IEC 60898-1 415 V acc. to IEC 60947-2 415 V AC
Operational Voltage	Maximum (Incl. Tolerance) 457 V AC Maximum 457 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) 15 kA
Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	(415 V AC) 25 kA (440 V AC) 15 kA (400 V) 25 kA
Rated Frequency (f)	50 Hz 60 Hz 50 60 Hz
Power Loss	20.8 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	4
Number of Protected Poles	4
Overvoltage Category	IV
Tightening Torque	2.8 N·m
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Termina
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 mm ²
	Flexible 0.75 25 mm²
	Flexible 0.75 25 mm ²
	Rigid 0.75 35 mm ²
	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
Pollution Degree	Enclosure with Cover IP40
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 Voltage UL/CSA	125 V DC 480Y / 277 V AC 480Y/277 V AC
Interrupting Rating acc. to UL1077	(125 V DC) 10 kA (480Y / 277 V AC) 10 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG
Tightening Torque UL/CSA	18 in lb

Dimensions	
Width in Number of Modular Spacings	4
Product Net Width	70 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.496 kg
Pole Net Weight	0.124 kg
Built-In Depth (t ₂)	69 mm

_
box 1 piece
0.516 kg

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	2CDS207104P0002
Manuals	

Popular Downloads	
Data Sheet, Technical	9AKK107992A4964
Information	

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	F		

Accessories					
Identifier 2CDS200922R0001	Description	Type Quantity		Unit Of Measure	
	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	1	piece	
2CDS200936R0002	S2C-H20L Auxiliary Contact	S2C-H20L	1	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	1	piece	
2CDS200946R0003	S2C-H6-02R Auxiliary Contact	S2C-H6-02R	1	piece	
2CDS200909R0001	S2C-A1 Shunt Trip	S2C-A1	1	piece	
2CDS200909R0002	S2C-A2 Shunt Trip	S2C-A2	1	piece	
2CSS200911R0001	S2C-UA 12 DC Undervoltage Release	S2C-UA 12 DC	1	piece	
2CSS200911R0002	S2C-UA 24 AC Undervoltage Release	S2C-UA 24 AC	1	piece	
2CSS200911R0003	S2C-UA 48 AC Undervoltage Release	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	S2C-UA 24 DC	1	piece	
2CSS200911R0008	S2C-UA 48 DC Undervoltage Release	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

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





