

PRODUCT-DETAILS

S303P-C10 S303P-C10 Miniature Circuit Breaker - 3P - C -10 A



General Information	
Extended Product Type	\$303P-C10
Product ID	2CDS383001R0104
EAN	4016779078146
Catalog Description	S303P-C10 Miniature Circuit Breaker - 3P - C - 10 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 landfil
Improved Resource	

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offered with Takeback Services Take Back for Recycling Services 944K108467A3901 Eco Transparency Eco Transparency Environmental Product 94KK108467A7130 Declaration = EPO Technical Technical Technical Take Back for Recycling 94KK108467A7130 Eco Transparency Eco	Offered with Extended	Product Durability
End of Life instructions AKKL08467A9801 Eco Transparency Environmental Product Declaration - EPD Technical Technical Standards CSA 22 2Na 325 IEC/TN 60893-1455 CAC to IEC 60893-1455 CAC to IEC 60893-1455 VAC UL 1077 Tripping Characteristic CARetel Operational CAC to IEC 60893-1455 VAC CAPACTY COPerational Voitage CAC to IEC 60893-1455 VAC CAPACTY CASH CASH CASH CASH CASH CASH CASH CASH		Take Back for Recycling
Environmental Product Declaration - EPD Technical Standards (EC/EN 60384-1 (EC/EN 60364-1 (EC/EN 6034-1 (EC/EN 6034-1 (EC/E		9AKK108467A9801
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Declaration - EPD Technical Standards CSA 22_No.235 IEC/EN 60347-1 IEC/EN 60347-1 Tripping Characteristic C Rated Operational acc. to IEC 60098-1 415 VAC Operational Voltage Maximum flnci. Tolerance) 457 VAC Maximum flox Maximum flox Operational Voltage Maximum flox Operational Voltage Maximum flox Maximum flox Common flox Rated Insulation Voltage Gate: to IEC/EN 6064-1 500 V Rated Insulation Voltage Gate: to IEC/EN 6064-1 500 V Rated Insulation Voltage (Ump) 0 Dielectric Test Voltage 50/60 Hz, 1 min: 2W Input Voltage Type AC/DC Rated Insulation Voltage (Ump) 10A Dielectric Test Voltage 50/60 Hz, 1 min: 2W Input Voltage Type AC/DC Rated Current (In) 10A Rated Current (In) 10A Rated Trequency (f) 64 Hz Source (Loc) 64 Hz Counce Tosistion Red ON / Green OFF Indicatin	Eco Transparency	
Standards CSA 22.2 No. 25 IEC/EN 00894-1 IEC/EN 00894-1 IEC/EN 00894-2 UI 1077 Tripping Characteristic C Rated Operational acc. to IEC 60898-1415 V AC Voltage acc. to IEC 60898-1415 V AC Operational Voltage Cac. to IEC 60898-1415 V AC Operational Voltage Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Rated Insulation Voltage Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Maximum (Ind. Tolerance) 457 V AC Rated Inpulse 6 kV Withstand Voltage (Ump) 50/60 Hz, 1 min. 2 kV Delectric Test Voltage 50/60 Hz, 1 min. 2 kV Input Voltage Type AC/DC Rated Short-Circuit (Ac/DC Capacity (Uo) (100 V) 25 kA Rated Ultimate Short- (415 V AC) 15 kA Crcuit Breaking (440 V AC) 15 kA Crcuit Breaking (440 V AC) 15 kA Crcuit Breaking (400 V) 25 kA Crcuit Breaking (440 V AC)		9AKK108467A7130
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Rated Operational Voltage acc. to IEC 60898-1415 VAC acc. to IEC 60898-1415 VAC acc. to IEC 60898-1415 VAC acc. to IEC 60987-2415 VAC Maximum (Incl. Tolerance) 457 VAC Minimum 12 VAC Minimum 12 VAC Minimum 12 VAC Minimum 12 VAC Minimum 12 VAC Rated Insulation Voltage acc. to IEC/EN 60664-1 500 V (U) Rated Insulation Voltage (Ump) acc. to IEC/EN 60664-1 500 V (U) Dielectric Test Voltage 50/60 Hz, 1 min: 2 kV (Mithand Voltage (Ump) Dielectric Test Voltage 50/60 Hz, 1 min: 2 kV (AC) 25 KA (AC) 25 KA (A	Standards	IEC/EN 60898-1 IEC/EN 60947-2
Voltage acc. to IEC 6098-1.415 V AC Operational Voltage Maximum (Incl. Tolerance) 457 V AC Maximum 457 V AC Maximum 12 V AC Minimum 12 V AC Minimum 12 V AC Rated Insulation Voltage acc. to IEC/EN 60664-1 500 V Rated Insulation Voltage acc. to IEC/EN 60664-1 500 V (U) acc. to IEC/EN 60664-1 500 V Rated Insulation Voltage Quimp 6 KV Dielectric Test Voltage (Dimp) 6 KV Dielectric Test Voltage Type CAC/DC Rated Short-Circuit (AC) 25 KA Capacity (400 V) 25 KA Rated Short-Circuit (400 V) 25 KA Circuit Breaking (410 V AC) 15 KA Circuit Breaking (400 V) 25 KA Rated Frequency (f) 50 Hz Ower Loss at Rated Operating Conditions per Pole 1.5 W Power Loss at Rated Operating Conditions per Pole 1.5 W Ountage Type Contact Pole 1.5 W Power Supply at Rated Operating Conditions per Pole 1.5 W Ower Supply at Rated Operating Conditions per Pole 1.5 W Ower Supply at Rated Operating Conditions per Pole	Tripping Characteristic	C
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Rated Insulation Voltage (U,) acc. to IEC/EN 60664-1 500 V (U,) Rated Inpulse Withstand Voltage (U _{imp}) 6 kV Dielectric Test Voltage 50/60 Hz, 1 min: 2 kV Input Voltage Type AC/DC Rated Short-Circuit (AC) 25 kA Capacity (400 v) 25 kA Rated Ultimate Short- Circuit Breaking (415 V AC) 25 kA Caracity (Icu) (410 v) 25 kA Rated Prequency (f) 50 Hz, 1 min: 2 kV Power Loss 6 Hz Power Supply 6 Hz Contact Position 60 Hz Indication 20000 AC cycle Mumber of Poles 3 Number of Poles 3 Number of Protected 3 Poser Virge Category IV Vervaltage Editor Marking I/O Actuator Marking I/O Overvoltage Category IV Vactor Marking I/O Actuator Marking </td <td>Operational Voltage</td> <td>Maximum 457 V AC Minimum 12 V AC</td>	Operational Voltage	Maximum 457 V AC Minimum 12 V AC
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Input Voltage TypeAC/DCRated Current (In)10 ARated Short-Circuit(AC) 25 KACapacity(400 V) 25 KARated Ultimate Short-(415 V AC) 25 KACircuit Breaking(440 V AC) 15 KACapacity (Icu)(400 V) 25 KARated Frequency (f)50 HzOwer Loss50 HzPower Loss4.5 WContact PositionReted ON / Green OFFIndication20000 AC cycleNumber of Poles3Number of Poles3Number of Poles3Overvoltage CategoryIVTightening Torque2.8 N-mScrew Terminal TypeFailsafe Bi-directional Cylinder-lift TerminalActuator Marking1 / OActuator MarkingInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Withstand Voltage (Uimp	6 kV
Rated Current (In) 10 A Rated Short-Circuit (AC) 25 kA Capacity (Ad0 V) 25 kA Rated Ultimate Short- (415 V AC) 25 kA Circuit Breaking (440 V AC) 15 kA Capacity (I _{cu}) (400 V) 25 kA Rated Frequency (f) 50 Hz Power Loss 60 Hz Power Loss 4.5 W Power Supply Arbitrary Contact Position Red ON / Green OFF Indication 20000 AC cycle Wechanical Endurance 20000 AC cycle Mumber of Poles 3 Number of Poles 3 Poles 3 Overvoltage Category IV Tightening Torque 2.8 N-m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Material Insulation Group II, Black, Sealable Housing Material Insulation Group II, RalAZ, 7035 Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Dielectric Test Voltage	50/60 Hz, 1 min: 2 kV
Rated Short-Circuit (AC) 25 kA Capacity (400 V) 25 kA Rated Ultimate Short- (415 V AC) 25 kA Circuit Breaking (440 V AC) 15 kA Capacity (I _{cu}) (400 V) 25 kA Rated Frequency (f) 50 Hz Ower Loss 4.5 W Power Loss 4.5 W Power Supply Arbitrary Contact Position Red ON / Green OFF Indication 20000 AC cycle Number of Poles 3 Number of Poles 3 Poles 3 Poles 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking I / O Actuator Marking I / O Actuator Marking 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	Input Voltage Type	AC/DC
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Circuit Breaking (440 V AC) 15 kA Capacity (I _{Cu}) (400 V) 25 kA Rated Frequency (f) 50 Hz 50 60 Hz 50 60 Hz 50 60 Hz 50 60 Hz 50 60 Hz 50 60 Hz 70 Ver Supply Arbitrary Contact Position Arbitrary Contact Position Red ON / Green OFF Indication 20000 AC cycle Mechanical Endurance 20000 AC cycle Mechanical Endurance 20000 AC cycle Mechanical Endurance 30000 cycle Number of Poles 3 Number of Poles 3 Number of Protected 3 Poles 2 Overvoltage Category 1V Tightening Torque 2.8 Nm Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking 1/ O Actuator Marking 1/ O Act		
60 Hz 50 60 Hz 50 60 Hz 50 60 Hz 9 ower Loss Power Supply Contact Position Contact Position Indication Electrical Endurance 20000 AC cycle Mumber of Poles Number of Protected Poles Overvoltage Category Tightening Torque Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking 1 / 0 Actuator Marking 1 / 0 Housing Material Insulation Group II, Black, Sealable Housing Material Insulation Group I, RAL 7035	Circuit Breaking	(440 V AC) 15 kA
Power Loss 4.5 W at Rated Operating Conditions per Pole 1.5 W Power Supply Arbitrary Connection Red ON / Green OFF Indication Red ON / Green OFF Electrical Endurance 20000 AC cycle Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles 3 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) act. to IEC 60715	Rated Frequency (f)	50 Hz 60 Hz
Power Supply ConnectionArbitrary Arbitrary ConnectionContact Position IndicationRed ON / Green OFF Red ON / Green OFFIndication20000 AC cycleElectrical Endurance20000 CycleMumber of Poles3Number of Protected3Poles3Overvoltage CategoryIVTightening Torque2.8 N-mScrew Terminal TypeFailsafe Bi-directional Cylinder-lift TerminalActuator MarkingI / OActuator MaterialInsulation Group II, Black, SealableHousing MaterialInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Power Loss	4.5 W
Indication Electrical Endurance 20000 AC cycle Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles Overvoltage Category 1V Tightening Torque 2.8 N·m Screw Terminal Type Failsafe Bi-directional Cylinder-lift Terminal Actuator Marking 1 / 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		Arbitrary
Electrical Endurance20000 AC cycleMechanical Endurance20000 cycleNumber of Poles3Number of Protected3Poles1Overvoltage Category1VTightening Torque2.8 N·mScrew Terminal TypeFailsafe Bi-directional Cylinder-lift TerminalActuator Marking1 / OActuator MaterialInsulation Group I, Black, SealableHousing MaterialInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715		Red ON / Green OFF
Mechanical Endurance 20000 cycle Number of Poles 3 Number of Protected 3 Poles 3 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		
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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	Number of Protected	3
Tightening Torque2.8 N·mScrew Terminal TypeFailsafe Bi-directional Cylinder-lift TerminalActuator MarkingI / OActuator MaterialInsulation Group II, Black, SealableHousing MaterialInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Overvoltage Category	VI
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Actuator MaterialInsulation Group II, Black, SealableHousing MaterialInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Housing MaterialInsulation Group I, RAL 7035Mounting on DIN RailTH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	Actuator Marking	١/٥
Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715	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

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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 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-Ib

Dimensions	
Width in Number of Modular Spacings	3
Product Net Width	52.5 mm
Product Net Height	88 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.372 kg
Pole Net Weight	0.124 kg
Built-In Depth (t ₂)	69 mm

Subject to change without notice

Ordering	
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.387 kg
E-Number (Finland)	3212287

Certificates and Declarations	
CB Certificate	2CDZ405000A108 2CDZ405000A109
CCA Certificate	2CDZ405000A1090 2CDZ405000A1094
CCC Certificate	2CDZ405000A109 2CDZ405000A1098
Certification Agency	CSA IEC EN UI
CQC Certificate	2CDZ405000A1097 2CDZ405000A1098
CSA Certificate	2CDZ405000A1102
Declaration of Conformity - CE	9AKK107991A3220
Declaration of Conformity - UKCA	9AKK107992A887
DNV GL Certificate	2CDZ405000A1155
EAC Certificate	2CDZ405000A1092 2CDZ405000A1096
NF Certificate	2CDZ405000A1144
RINA Certificate	2CDZ405000A1194
UL Certificate	2CDZ405000A110
VDE Certificate	2CDZ405000A119 2CDZ405000A119
Installation	
Instructions and Manuals	2CDS207104P0002

Popular Downloads	
Data Sheet, Technical	9AKK107992A4964
Information	

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

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	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 \rightarrow Miniature Circuit Breakers MCBs

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