

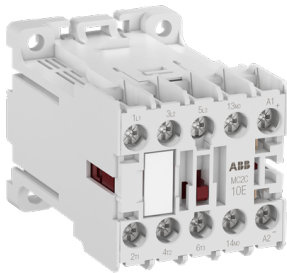



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 PRODUCT-DETAILS

## MC2C301ATD

### MC2C301ATD Mini Contactor 24 V DC - 3 NO - 0 NC - Screw Terminals




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#### General Information

<b>Extended Product Type:</b>	MC2C301ATD
<b>Product ID:</b>	1SAL103580R9902
<b>EAN:</b>	4013614545184
<b>Catalog Description:</b>	MC2C301ATD Mini Contactor 24 V DC - 3 NO - 0 NC - Screw Terminals
<b>Long Description:</b>	The MC2C301ATD mini contactor is a dimension optimized 3 pole contactor with 1 NC auxiliary contact and screw terminals. This device is a great solution when high performances are needed but the space is limited. Mini contactors are used in residential buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. The product is suitable for wall or rail mounting.
<b>Display Name:</b>	MC2C301ATD

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#### Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## Popular Downloads

<b>EPLAN Data:</b>	9AAC426185_EPLAN
<b>Data Sheet, Technical Information:</b>	1SBC100214C0202
<b>Instructions and Manuals:</b>	2CDC103061M6801
<b>CAD Dimensional Drawing:</b>	2CDC001079B0201

## Dimensions

<b>Product Net Width:</b>	45 mm
<b>Product Net Depth / Length:</b>	68 mm
<b>Product Net Height:</b>	48 mm
<b>Product Net Weight:</b>	0.25 kg

## Technical

<b>Number of Main Contacts NO:</b>	3
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	0
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Poles:</b>	3P
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 UL 60947-5-1
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 690 V AC Auxiliary Circuit 440 V DC Main Circuit 690 V AC Main Circuit 440 V DC
<b>Rated Frequency (f):</b>	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Auxiliary Circuit 10 A Main Circuit 20 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(690 V) 55 °C 20 A (690 V) 70 °C 16 A (230 V) 55 °C 20 A (230 V) 70 °C 16 A (400 V) 55 °C 20 A (400 V) 70 °C 16 A (500 V) 55 °C 20 A (500 V) 70 °C 16 A

<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(230 V) 55°C 12 A (400 V) 55 °C 12 A (500 V) 55 °C 10 A (690 V) NO 55°C 5 A
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(24 V) 5 A (48 V) 2.5 A (125 V) 0.55 A (250 V) 0.3 A (440 V) 0.15 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(230 V) Three Phase 3 kW (400 V) Three Phase 5.5 kW (500 V) Three Phase 5.5 kW (690 V) Three Phase, NO 4 kW
<b>Rated Breaking Capacity AC-3:</b>	8 x I <sub>e</sub> / AC-3
<b>Rated Making Capacity AC-3:</b>	10 x I <sub>e</sub> / AC-3
<b>Rated Short-time Withstand Current Low Voltage (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	750 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Auxiliary Circuit 6 kV Main Circuit 6 kV
<b>Maximum Electrical Switching Frequency:</b>	(AC-1) 300 cycles per hour (AC-15) 360 cycles per hour (AC-3) 1200 cycles per hour (DC-1) 600 cycles per hour (DC-13) 360 cycles per hour (DC-3) 600 cycles per hour
<b>Mechanical Durability:</b>	Nr. Operations 10000000 cycle
<b>Minimum Switching Capacity:</b>	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	24 V DC
<b>Coil Consumption:</b>	Average Holding Value DC 3 W Average Pull-in Value DC 3 W
<b>Power Loss:</b>	at Rated Operating Conditions AC-1 per Pole 0.7 W
<b>Mounting on DIN Rail:</b>	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
<b>Connecting Capacity Main Circuit:</b>	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1x 0.75 ... 4 mm <sup>2</sup> Rigid 2x 0.75 ... 2.5 mm <sup>2</sup>
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1x 0.75 ... 4 mm <sup>2</sup> Rigid 2x 0.75 ... 2.5 mm <sup>2</sup>

<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Control Circuit 9 mm Main Circuit 9 mm
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.0 N·m Control Circuit 0.8 N·m Main Circuit 0.8 ... 1.0 N·m
<b>Terminal Type:</b>	Screw Terminals
<b>Mini Contactor Type:</b>	Mini Contactor
<b>Product Name:</b>	Mini Contactor

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>General Use Rating UL/CSA:</b>	(600 V AC) 20 A
<b>Horsepower Rating UL/CSA:</b>	(115 V AC) Single Phase 0.5 Hp (200 V AC) Three Phase 3 Hp (220 ... 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 2 Hp (440 ... 480 V AC) Three Phase 7.5 Hp (550 ... 600 V AC) Three Phase 10 Hp
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Stranded 1/2x 18-12 AWG
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Stranded 1/2x 18-12 AWG
<b>Contact Rating UL/CSA:</b>	A600 Q600
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb
<b>Full Load Amps Motor Use:</b>	(115 V AC) Single Phase 9.8 A (200 V AC) Three Phase 11 A (220 ... 240 V AC) Three Phase 9.6 A (230 V AC) Single Phase 12 A (440 ... 480 V AC) Three Phase 11 A (550 ... 600 V AC) Three Phase 11 A

## Environmental

<b>Ambient Air Temperature:</b>	Operation -40 ... +70 °C Storage -55 ... +80 °C
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 25g
<b>Resistance to Vibrations:</b>	5g 3 ... 150 Hz

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## Material Compliance

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<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	2CMT2021-006202
<b>RoHS Declaration:</b>	2CMT2021-006277
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006525
<b>WEEE B2C / B2B:</b>	Business To Business
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)

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## Certificates and Declarations

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<b>A2L Certificate – IEC:</b>	1SAA971000-4601
<b>BV Certificate:</b>	1SAA971000-0201
<b>CB Certificate:</b>	1SAA971000-2001
<b>CCC Certificate:</b>	9AKK108472A3534
<b>CQC Certificate:</b>	CQC2019010304197131
<b>Declaration of Conformity - CCC:</b>	2020980304001602
<b>Declaration of Conformity - CE:</b>	1SAD101100-3201
<b>Declaration of Conformity - UKCA:</b>	1SAD201100-3201
<b>RINA Certificate:</b>	1SAA971001-0801
<b>UL Certificate:</b>	E191658-19880826

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## Container Information

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<b>Package Level 1 Units:</b>	box 1 piece
<b>Package Level 1 Width:</b>	46 mm
<b>Package Level 1 Depth / Length:</b>	49 mm
<b>Package Level 1 Height:</b>	70 mm
<b>Package Level 1 Gross Weight:</b>	0.255 kg
<b>Package Level 1 EAN:</b>	4013614545184
<b>Package Level 2 Units:</b>	box 10 piece
<b>Package Level 2 Width:</b>	243 mm
<b>Package Level 2 Depth / Length:</b>	106 mm
<b>Package Level 2 Height:</b>	80 mm
<b>Package Level 2 Gross Weight:</b>	2.61 kg
<b>Package Level 2 EAN:</b>	4013614545481

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## External Classifications and Standards

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<b>Object Classification Code:</b>	Q
<b>ETIM 7:</b>	EC000066 - Power contactor, AC switching
<b>ETIM 8:</b>	EC000066 - Power contactor, AC switching
<b>ETIM 9:</b>	EC000066 - Power contactor, AC switching
<b>eClass:</b>	V11.0 : 27371003
<b>UNSPSC:</b>	39121529
<b>E-Number (Finland):</b>	3709658

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## Categories

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Products > Low Voltage Products and Systems > Control Products > Contactors > Mini Contactors

