

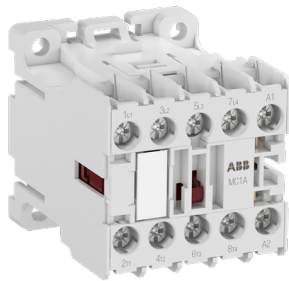



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 PRODUCT-DETAILS

# MC1AB00ATN

## MC1AB00ATN Mini Contactor 50 Hz 220 ... 240 V AC - 2 NO - 2 NC - Screw Terminals




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**General Information**

<b>Extended Product Type:</b>	MC1AB00ATN
<b>Product ID:</b>	1SAL100374R9901
<b>EAN:</b>	4013614541827
<b>Catalog Description:</b>	MC1AB00ATN Mini Contactor 50 Hz 220 ... 240 V AC - 2 NO - 2 NC - Screw Terminals
<b>Long Description:</b>	The MC1AB00ATN mini contactor is a dimension optimized 4 pole contactor with screw terminals. This device is a great solution when high performances are needed but the space is limited. Mini contactors are used in residential buldings, commercial buildings and industrial applications for the control of single or three-phase loads up to 4 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>	MC1AB00ATN

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**Ordering**

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

## Popular Downloads

<b>EPLAN Data:</b>	9AAC426184_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>	56 mm
<b>Product Net Height:</b>	48 mm
<b>Product Net Weight:</b>	0.17 kg

## Technical

<b>Number of Main Contacts NO:</b>	2
<b>Number of Main Contacts NC:</b>	2
<b>Number of Auxiliary Contacts NO:</b>	0
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Poles:</b>	4P
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1
<b>Rated Operational Voltage:</b>	Main Circuit 690 V AC Main Circuit 440 V DC
<b>Rated Frequency (f):</b>	Control Circuit 50 Hz Control Circuit 60 Hz Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
<b>Conventional Free-air Thermal Current (<math>I_{th}</math> Main Circuit 20 A):</b>	
<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 (<math>I_e</math>):</b>	(230 V) 55 °C 9 A (400 V) 55 °C 9 A (500 V) 55 °C 8 A (690 V) NC 55 °C 4 A (690 V) NO 55 °C 5 A

<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(230 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NC 3 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 (<math>I_{cw}</math>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	750 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	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>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55$ °C)
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	50 Hz 220 ... 240 V AC 60 Hz 240 ... 277 V AC
<b>Coil Consumption:</b>	Average Holding Value 50 Hz 5.3 V·A Average Pull-in Value 50 Hz 5.3 V·A
<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 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>	Control Circuit 9 mm Main Circuit 9 mm
<b>Degree of Protection:</b>	Control Circuit Terminals IP20 Main Circuit Terminals IP20
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Tightening Torque:</b>	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

**Maximum Operating Voltage UL/CSA:** 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 1.5 Hp (440 ... 480 V AC) Three Phase 5 Hp (550 ... 600 V AC) Three Phase 5 Hp
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Stranded 1/2x 18-12 AWG
<b>Tightening Torque UL/CSA:</b>	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 10 A (440 ... 480 V AC) Three Phase 7.6 A (550 ... 600 V AC) Three Phase 6.1 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

## Material Compliance

<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)

## Certificates and Declarations

<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

RINA Certificate: 1SAA971000-0801

UL Certificate: E191658-19880826

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## Container Information

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Package Level 1 Units: box 1 piece

Package Level 1 Width: 46 mm

Package Level 1 Depth / Length: 49 mm

Package Level 1 Height: 58 mm

Package Level 1 Gross Weight: 0.175 kg

Package Level 1 EAN: 4013614541827

Package Level 2 Units: box 20 piece

Package Level 2 Width: 237 mm

Package Level 2 Depth / Length: 102 mm

Package Level 2 Height: 120 mm

Package Level 2 Gross Weight: 3.55 kg

Package Level 2 EAN: 4013614542480

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## External Classifications and Standards

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Object Classification Code: Q

ETIM 7: EC000066 - Power contactor, AC switching

ETIM 8: EC000066 - Power contactor, AC switching

ETIM 9: EC000066 - Power contactor, AC switching

eClass: V11.0 : 27371003

UNSPSC: 39121529

E-Number (Finland): 3709451

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## Categories

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

