

PRODUCT-DETAILS

## MC1A310ATN MC1A310ATN Mini Contactor 50 Hz 220 ... 240 V AC - 3 NO - 0 NC - Screw Terminals



General Information	
Extended Product Type	MC1A310ATN
Product ID	1SAL100214R9901
EAN	4013614541384
Catalog Description	MC1A310ATN Mini Contactor 50 Hz 220 240 V AC - 3 NO - 0 NC - Screw Terminals
Long Description	The MC1A310ATN mini contactor is a dimension optimized 3 pole contactor with 1 NO 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 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.
Ordering	
Minimum Order Quantity	1 piece

1 piece 85365080

Popular Downloads

Customs Tariff Number

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2025/01/13

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Data Sheet, Technical Information	1SBC100214C0202 - Chapter 4 (InDesign) - Main catalog Motor Protection and control
Instructions and Manuals	2CDC103061M6801
CAD Dimensional Drawing	2CDC001079B0201

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	56 mm
Product Net Height	48 mm
Product Net Weight	0.17 kg

Technical	
Number of Main Contacts NO	з
Number of Main Contacts NC	C
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	C
Number of Poles	3F
Standards	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 UL 60947-5-1
Rated Operational Voltage	Auxiliary Circuit 690 V AC Auxiliary Circuit 440 V DC Main Circuit 690 V AC Main Circuit 440 V DC
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
Conventional Free-air Thermal Current (I <sub>th</sub> )	Auxiliary Circuit 10 A Main Circuit 20 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(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
Rated Operational Current AC-3 (I <sub>e</sub> )	(230 V) 55°C 9 A (400 V) 55 °C 9 A (500 V) 55 °C 8 A (690 V) NO 55°C 5 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A

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Pated Operational	(6.1) F
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 5 A (48 V) 2.5 A
	(125 V) 0.55 A
	(250 V) 0.3 A (440 V) 0.15 A
Rated Operational Power	(230 V) Three Phase 2.2 kW
AC-3 (P <sub>e</sub> )	(400 V) Three Phase 4 kW
	(500 V) Three Phase 4 kW
Dated Brooking Conscitu	(690 V) Three Phase, NO 4 kW
Rated Breaking Capacity AC-3	8 x le / AC-3
Rated Making Capacity AC-3	10 x le / AC-3
Rated Short-time Withstand Current Low /oltage (I <sub>cw</sub> )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A
Rated Insulation Voltage (U;)	750 V
Rated Impulse	Auxiliary Circuit 6 kV
Vithstand Voltage (U <sub>imp</sub>	Main Circuit 6 kV
1aximum Electrical	(AC-1) 300 cycles per hour
witching Frequency	(AC-15) 360 cycles per hour (AC-3) 1200 cycles per hour
	(DC-1) 600 cycles per hour
	(DC-13) 360 cycles per hour
echanical Durability	(DC-3) 600 cycles per hour 10000000 cycle
finimum Switching	Auxiliary Circuit 17 V
apacity	Auxiliary Circuit 5 mA
oil Operating Limits	(acc. to IEC 60947-4-1) for AC supply 0.85 1.1 x Uc (at $\theta$ $\leq$ 55 °C)
ated Control Circuit oltage (U <sub>c</sub> )	50 Hz 220 240 V AC 60 Hz 240 277 V AC
oil Consumption	Average Holding Value 50 Hz 5.3 V·A
	Average Pull-in Value 50 Hz 5.3 VA
ower Loss	at Rated Operating Conditions AC-1 per Pole 0.7 W
lounting 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
Connecting Capacity	Flexible with Ferrule 1x 0.75 2.5 mm <sup>2</sup>
lain Circuit	Flexible with Ferrule 2x 0.75 1.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm²
	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 mm² Rigid 2x 0.75 2.5 mm²
onnecting Capacity	Flexible with Ferrule 2x 0.75 1.5 mm <sup>2</sup>
uxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 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 with insulated Ferrule 2X 0.75 1.5 mm <sup>-</sup> Flexible 1/2x 0.75 2.5 mm <sup>2</sup>
	Rigid 1x 0.75 4 mm²
	Rigid 2x 0.75 2.5 mm <sup>2</sup>
onnecting Capacity ontrol Circuit	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 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 mm² Rigid 1/2x 0.75 2.5 mm²
Vire Stripping Length	Auxiliary Circuit 9 mm
	Control Circuit 9 mm Main Circuit 9 mm
Degree of Protection	Auxiliary Circuit Terminals IP20
	Control Circuit Terminals IP20
ecommended Screw	Main Circuit Terminals IP20 Pozidriv 2
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## MC1A310ATN

Tightening Torque	Auxiliary Circuit 0.8 1.0 N·m
	Control Circuit 0.8 N·m
	Main Circuit 0.8 1.0 N·m
Terminal Type	Screw Terminals
Mini Contactor Type	Mini Contactor
Product Name	Mini Contactor

## Technical UL/CSA

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
General Use Rating UL/CSA	(600 V AC) 20 A
Horsepower Rating	(115 V AC) Single Phase 0.5 Hp
UL/CSA	(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
Connecting Capacity Main Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Contact Rating UL/CSA	A600 Q600
Tightening Torque	Auxiliary Circuit 7 in·lb
UL/CSA	Control Circuit 7 in·lb
	Main Circuit 7 in·lb
Full Load Amps Motor	(115 V AC) Single Phase 9.8 A
Use	(11) V AC) Single Phase 3.5 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	
Ambient Air	Operation -40 +70 °C
Temperature	Storage -55 +80 °C
Maximum Operating Altitude Permissible	3000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations	5g 3 150 Hz
Material Compliance	
Conflict Minerals	9AKK108467A5658
Reporting Template (CMRT)	
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
WEEE B2C / B2B	Business To Business

WEEE Category 5. Small Equipment (No External Dimension More Than 50 cm)

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Certificates and Declarations	
A2L Certificate – IEC	1SAA971000-4601
BV Certificate	1SAA971000-0201
CB Certificate	1SAA971000-2001
CQC Certificate	CQC2019010304197131
Declaration of Conformity - CCC	2020980304001602
Declaration of Conformity - CE	1SAD101100-3201
Declaration of Conformity - UKCA	1SAD201100-3201
RINA Certificate	1SAA971000-0801
UL Certificate	E191658-19880826

Container Information	
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	4013614541384
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	4013614542046

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)	3709430

## Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  Mini Contactors

