

45 mm

PRODUCT-DETAILS

Product Net Width

MC2A310AT1 MC2A310AT1 Mini Contactor 3NO AUX 1NO 24V 50/60Hz



General Information	
Extended Product Type	MC2A310AT
Product ID	1SAL103577R9902
EAN	4013614544088
Catalog Description	MC2A310AT1 Mini Contactor 3NO AUX 1NO 24V 50/60Hz
Long Description	The MC2A310AT1 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 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

Ordering Minimum Order Quantity	1 piece
Customs Tariff Number	8536508C
Popular Downloads	

 $\frac{\text{Rated Control Circuit}}{\text{Voltage (U_c)}} \\ \frac{\text{Coil Operating Limits}}{\text{Coil Operating Limits}}$

Degree of Protection

Mechanical Durability

24 V AC

10000000 cycle

Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20

(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x Uc (at $\theta \leq$ 55 °C)

	48 mn
Product Net Depth / .ength	56 mr
Product Net Weight	0.17 k
Technical	
Number of Poles	
Mini Contactor Type	Mini Contacto
Rated Operational Voltage	Auxiliary Circuit 690 V At Auxiliary Circuit 440 V Do Main Circuit 690 V At Main Circuit 440 V Do
Rated Frequency (f)	Auxiliary Circuit 50 H Auxiliary Circuit 60 H Auxiliary Circuit D(Auxiliary Circuit D(Control Circuit 50 H Control Circuit 60 H Main Circuit 50 H Main Circuit 60 H Main Circuit 60 H
Rated Impulse Withstand /oltage (U _{imp})	Auxiliary Circuit 6 k' Main Circuit 6 k'
Rated Insulation Voltage U _i)	750
Number of Main Contacts NC	
Number of Main Contacts NO	
Rated Operational Current AC-1 (I _e)	(230 V) 55 °C 20 / (230 V) 70 °C 16 / (400 V) 55 °C 20 / (400 V) 70 °C 16 / (500 V) 55 °C 20 / (500 V) 70 °C 16 / (690 V) 55 °C 20 / (690 V) 70 °C 16 /
Rated Operational Power AC-3 (P _e)	(230 V) Single Phase 2 kV (230 V) Three Phase 3 kV (400 V) Three Phase 5.5 kV (500 V) Three Phase 5.5 kV (690 V) Three Phase, NC 3 kV (690 V) Three Phase, NO 4 kV
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A
Number of Auxiliary Contacts NC	
Number of Auxiliary Contacts NO	
Rated Operational Current AC-15 (I_e)	(240 V) 6 (400 V) 4 (500 V) 2.5 (690 V) 1.5
Rated Operational Current DC-13 (I _e)	(125 V) 0.7 (24 V) 5 (250 V) 0.3 (440 V) 0.15 (48 V) 2.5
Conventional Free-air Thermal Current (I _{th})	Auxiliary Circuit 16 / Main Circuit 20 /

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Minimum Switching Capacity	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Maximum Electrical Switching Frequency	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
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² 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 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1/2x 0.75 2.5 mm² Rigid 1x 0.75 4 mm² Rigid 2x 0.75 2.5 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² 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 mm² Flexible t1/2x 0.75 2.5 mm² Rigid 1x 0.75 2.5 mm² Rigid 2x 0.75 2.5 mm²
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² 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 mm² Flexible 1/2x 0.75 2.5 mm² Rigid 1/2x 0.75 2.5 mm²
Wire Stripping Length	Auxiliary Circuit 9 mm Control Circuit 9 mm Main Circuit 9 mm
Tightening Torque	Auxiliary Circuit 0.8 1.0 N·m Control Circuit 0.8 N·m Main Circuit 0.8 1.0 N·m
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
Power Loss	at Rated Operating Conditions AC-1 per Pole 0.7 W
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

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Full Load Amps Motor Use	(115 V AC) Single Phase 9.8 A (200 V AC) Three Phase 11 A (230 V AC) Single Phase 12 A (240 V AC) Three Phase 9.6 A (380 415 V AC) Three Phase 9.7 A (440 480 V AC) Three Phase 11 A (550 600 V AC) Three Phase 11 A
Horsepower Rating UL/CSA	(115 V AC) Single Phase 0.5 Hp (200 V AC) Three Phase 3 Hp (230 V AC) Single Phase 2 Hp (240 V AC) Three Phase 3 Hp (380 415 V AC) Three Phase 5 Hp (440 480 V AC) Three Phase 7.5 Hp (550 600 V AC) Three Phase 10 Hp
General Use Rating UL/CSA	(600 V AC) 20 A
Connecting Capacity Main Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb

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imum Operating ude Permissible stance to Shock acc. C 60068-2-27 stance to Vibrations to IEC 60068-2-6 S Status rtificates and Declarations (Document Number)	Operation -40 +55 °C Storage -55 +80 °C 3000 n 11 ms Pulse 25g 5g / 3 150 H: Following EU Directive 2011/65/EU
stance to Shock acc. C 60068-2-27 stance to Vibrations to IEC 60068-2-6 S Status	11 ms Pulse 25 5g / 3 150 H
cc 60068-2-27 stance to Vibrations to IEC 60068-2-6 S Status	5g / 3 150 H
to IEC 60068-2-6 S Status	
	Following EU Directive 2011/65/EU
rtificates and Declarations (Document Number)	
Pertificate	BV_M_Rang
Certificate	1SAA971000-200
Certificate	CCC_MC1_MC
us Certificate	cUL_E19165
aration of Conformity	1SAD938502-030
Certificate	1SAA971000-270
uctions and Manuals	2CDC103061M680
A Certificate	1SAA971001-020
S Information	1SAD038501-030
rage Level 1 Units	box 1 piec
kage Level 1 Width	46 mr
age Level 1 Height	58 mr
kage Level 1 Depth / gth	49 mr
kage Level 1 Gross ght	0.175 k
age Level 1 EAN	401361454408
age Level 2 Units	box 20 piec
kage Level 2 Width	237 mr
kage Level 2 Height	120 mr
kage Level 2 Depth / gth	102 mr
kage Level 2 Gross ght	3.55 k
kage Level 2 EAN	401361454452
essifications	
ect Classification Code	
Λ5 ΛC	EC000066 - Magnet contactor, AC-switchin
<i>n</i> 6	EC000066 - Power contactor, AC switching
	E0000000 D
M 7	EC000066 - Power contactor, AC switching 7.0 2737100

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Categories

 $\text{Low Voltage Products and Systems} \rightarrow \text{Control Products} \rightarrow \text{Contactors} \rightarrow \text{Mini Contactors}$

