

PRODUCT-DETAILS

Ordering

MC1A310AT6 MC1A310AT6 Mini Contactor 3NO AUX 1NO 220-230V 50/60Hz



General Information	
Extended Product Type	MC1A310AT6
Product ID	1SAL102622R9901
EAN	4013614541339
Catalog Description	MC1A310AT6 Mini Contactor 3NO AUX 1NO 220-230V 50/60Hz
Long Description	The MC1A310AT6 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.

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080
Popular Downloads	
Instructions and Manuals	2CDC103061M6801

Dimensions	
Product Net Width	45 m

Product Net Height	48 mn
Product Net Depth / Length	56 mn
Product Net Weight	0.17 k
Technical	
Number of Poles	
Mini Contactor Type	Mini Contacto
Rated Operational Voltage	Auxiliary Circuit 690 V A Auxiliary Circuit 440 V D Main Circuit 690 V A Main Circuit 440 V D
Rated Frequency (f)	Auxiliary Circuit 50 H Auxiliary Circuit 60 H Auxiliary Circuit Do Control Circuit 50 H Control Circuit 60 H Main Circuit 50 H Main Circuit 60 H Main Circuit 50 H Main Circuit 60 H
Rated Impulse Withstand Voltage (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)	(690 V) 55 °C 20 (690 V) 70 °C 16 (230 V) 55 °C 20 (230 V) 70 °C 16 (400 V) 55 °C 20 (400 V) 55 °C 20 (400 V) 55 °C 20 (500 V) 70 °C 16
Rated Operational Power AC-3 (P _e)	(230 V) Three Phase 2.2 k (400 V) Three Phase 4 k (500 V) Three Phase 4 k (690 V) Three Phase, NO 4 k
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72
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

Mini Contactor Type	Mini Contactor
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 60 Hz
Rated Impulse Withstand Voltage ($U_{\rm imp}$)	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage (U _i)	750 V
Number of Main Contacts NC	0
Number of Main Contacts NO	3
Rated Operational Current AC-1 (I _e)	(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 Power AC-3 (P _e)	(230 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NO 4 kW
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	1
Rated Operational Current AC-15 (I _e)	(240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A
Rated Operational Current DC-13 (I _e)	(24 V) 5 A (48 V) 2.5 A (125 V) 0.55 A (250 V) 0.3 A (440 V) 0.15 A
Conventional Free-air Thermal Current (I _{th})	Auxiliary Circuit 10 A Main Circuit 20 A
Rated Control Circuit Voltage (U_c)	220 230 V AC
Coil Operating Limits	(acc. to IEC 60947-4-1) for AC supply 0.85 1.1 x Uc (at θ ≤ 55 °C)
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability	10000000 cycle
Minimum Switching Capacity	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA

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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 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 2x 0.75 1.5 mm² Flexible with Ferrule 1x 0.75 2.5 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 Flexible 1/2x 0.75 4 mm² Rigid 1x 0.75 4 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 (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
Horsepower Rating UL/CSA	(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
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

Environmental

Ambient Air Temperature Operation -40 \dots +55 °C

Maximum Operating Altitude Permissible	3000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations acc. to IEC 60068-2-6	5g / 3 150 Hz
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
BV Certificate	1SAA971000-0201
CB Certificate	1SAA971000-2001
CQC Certificate	CQC2019010304197131
cULus Certificate	cUL_E191658
Declaration of Conformity - CCC	2020980304001602
Declaration of Conformity - CE	1SAD938503-0305
Declaration of Conformity - UKCA	1SAD938500-1305
Instructions and Manuals	2CDC103061M6801
RINA Certificate	1SAA971000-0801
RoHS Information	1SAD938503-0305

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	46 mm
Package Level 1 Height	58 mm
Package Level 1 Depth / Length	49 mm
Package Level 1 Gross Weight	0.175 kg
Package Level 1 EAN	4013614541339
Package Level 2 Units	box 20 piece
Package Level 2 Width	237 mm
Package Level 2 Height	120 mm
Package Level 2 Depth / Length	102 mm
Package Level 2 Gross Weight	3.55 kg
Package Level 2 EAN	4013614541995

Classifications	
Object Classification Code	Q
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
E-Number (Finland)	3709585

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Categories

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

