

PRODUCT-DETAILS

MC1A301ATU MC1A301ATU Mini Contactor 50 Hz 380 ... 400 V AC - 3 NO - 0 NC - Screw Terminals



General Information		
Extended Product Type	MC1A301ATU	
Product ID	1SAL100225R9901	
EAN	4013614541506	
Catalog Description	MC1A301ATU Mini Contactor 50 Hz 380 400 V AC - 3 NO - 0 NC - Screw Terminals	
Long Description	The MC1A301ATU 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 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	
Minimum Order Quantity Customs Tariff Number Popular Downloads	1 piece	
Minimum Order Quantity Customs Tariff Number	1 piece 85365080	

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

Technical	
Number of Poles	3
Mini Contactor Type	Mini Contacto
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
Rated Impulse Withstand Voltage (U _{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 Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	C
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)	50 Hz 380 400 V AC 60 Hz 440 V AC
Coil Operating Limits	(acc. to IEC 60947-4-1) for AC supply 0.85 1.1 x Uc (at $\theta \le 55$ °C)
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability	1000000 cycle
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 mm ² Flexible with Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible 1/2x 0.75 2.5 mm ² Rigid 1x 0.75 2.5 mm ² Rigid 2x 0.75 2.5 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 1.5 mm ² Flexible with Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible 1/2x 0.75 2.5 mm ² Rigid 1x 0.75 4 mm ² Rigid 2x 0.75 2.5 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 0.75 2.5 mm ² Flexible with Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible 1/2x 0.75 2.5 mm ² Rigid 1/2x 0.75 2.5 mm ²
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
Recommended Screw Driver	Pozidriv 2
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 60947-4-1 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	
Contact Rating UL/CSA	A600 Q600	
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 +70 °C 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 acc. to IEC 60068-2-6	5g / 3 150 Hz	
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019	

Certificates and Declarations	
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 Height	58 mm
Package Level 1 Depth / Length	49 mm
Package Level 1 Gross Weight	0.175 kg
Package Level 1 EAN	4013614541506
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	4013614542169

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	
ETIM 8	EC000066 - Power contactor, AC switching	
eClass	V11.0 : 27371003	
UNSPSC	39121529	
E-Number (Finland)	3709436	

Categories

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



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