

PRODUCT-DETAILS

MC1A301ATJ MC1A301ATJ Mini Contactor 50 Hz 110 ... 115 V AC - 3 NO - 0 NC - Screw Terminals



Extended Product Type	MC1A301AT.
Product ID	1SAL100223R990
EAN	4013614541476
Catalog Description	MC1A301ATJ Mini Contactor 50 Hz 110 115 V AC - 3 NO - 0 NC - Screw Terminals
Long Description	The MC1A301ATJ 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 ir residential buldings, commercial buildings and industrial applications for the contro of single or three-phase loads up to 4 kW (AC-3) and 20 A / 690 V (AC-1) or switching o control signals. The product is suitable for wall or rail mounting

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads

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

Technical	
Number of Poles	3Р
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 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) 70 °C 16 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	0
Rated Operational Current AC-15 (I _e)	(240 V) 6 A (400 V) 4 A

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	(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 110 115 V AC 60 Hz 110 120 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	10000000 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 4 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 60947-1 UL 60947-4-1 UL 60947-5-1

Technical UL/CSA

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Voltage UL/CSA 'Jul Laad Amps Motor Jse 'Jul Caa Amps Motor (20) VAC) Three Phase 18 (22) VAC) Three Phase 15 (23) VAC) Three Phase 15 (24) VAC) Three Phase 15 (25) VAC) Three Phase 15 (24) VAC) Three Phase 15 (24) VAC) Three Phase 15 (25) VAC) Three Phase 15 (25) VAC) Three Phase 15 (24) VAC) Three Phase 15 (25) VAC) Three Phase 15 (25) VAC) Three Phase 15 (25) VAC) Three Phase 15 (26) V		
iul Lead Amps Motor Jse (115 VAC) Single Phase 19 (200 VAC) Three Phase 15 (200 VAC) Three Ph	Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Jse (20 VAC) Three Phase 16 (22) VAC) Three Phase 16 (23 VAC) Three Phase 16 (23 VAC) Three Phase 15 (550 600 VAC) Three Phase 15 (20 VAC) Three P	-	(115 V AC) Single Phase 9.8 A
(230 VAD) Three Phase 7.5 (550 600 VAC) Three Phase 7.5 (550 600 VAC) Three Phase 7.5 (200 400 VAC) Three Phase 7.5 (550 600 V	Use	(200 V AC) Three Phase 11 A
(440480 VAC) Trice Phase 5.1 (155600 VAC) Trice Phase 5.1 (200 VAC) Single Phase 0.5 (200 VAC) Trice Phase 3.5 (200 VAC) Trice Phase 3.5 (20		(220 240 V AC) Three Phase 9.6 A
(5550V VAC) Three Phase 0.5 (115 VAC) Single Phase 0.5 (200 , 200 VAC) Three Phase 0.5 (200 , 200 VAC) Three Phase 0.5 (200 VAC) Single Phase 0.5 (200 VAC) Sin		
JL/CSA (200 VAC) Three Phase 3 (200 VAC) Single Phase 15 (200 VAC) Sin		(550 600 V AC) Three Phase 6.1 A
(22) - 240 VAC) Three Phase 5 + (230 VAC) Three Phase 5 + (440 480 VAC) Three Phase 5 + (550 600 VAC	Horsepower Rating	(115 V AC) Single Phase 0.5 Hp
Image: 15 (40 480 V4.C) Single Phase 1.5 (50 600 V AC) Three Phase 5 (50 600 V AC) 20 /// CSA Contact Rating UL/CSA 600 V AC) 20 /// CSA Connecting Capacity Stranded 1/2x 18-12 AW Main Circuit UL/CSA 600 V AC) 20 // CSA Connecting Capacity Stranded 1/2x 18-12 AW Muxiliary Circuit UL/CSA 600 V AC) 30 // CSA Storage 5 // CSA Control Circuit 7 in JL/CSA Control Circuit 7 in Main Circuit 7 in Main Circuit 7 in Main Circuit 7 in Main Circuit 7 in Main Circuit 7 in 470 Environmental 900 Vittide Permissible 900 Vittide Permissible 900 Vittide Permissible 910 Vittide Permissible	JL/CSA	(200 V AC) Three Phase 3 Hp
(440 480 VAC) Three Phase 5 + (S50 600 VAC) Three Phase 5 + (S50 VAC) Three Phase 5		· · · · · · · · · · · · · · · · · · ·
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Aain Circuit UL/CSA Connecting Capacity Wuiking Circuit 7 In- L/CSA Tightening Torque L/CSA Auxiliary Circuit 7 In- Control Circuit 7 In- Main Circuit 7 In- Control Circuit 7 In- Main Circuit 7 In- Storage - 5 +80' Material Compliance Conflict Minerals PACKN08467A565 Conflict Minerals PACKN08467		Q600
Juxiliary Circuit UL/CSA Tightening Torque JL/CSA Control Circuit 7 in. Control Circuit 7 in. Main Circuit 7 in. Environmental Tightening Torque Storage -55 +80 Axximu Operating Aximu Operating Aximu Operating Aximu Operating Aximu Operating Aximu Operating Storage -55 +80 Aximu Operating Storage -57 Certificate - IEC Storage -55 Storage	Connecting Capacity Main Circuit UL/CSA	Stranded 1/2x 18-12 AWG
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	CB Certificate	1SAA971000-2003
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	Declaration of	2020980304001602

Declaration of Conformity - CE Declaration of

Conformity - CCC

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1SAD101100-3201

1SAD201100-3201

Conformity - UKCA	
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	4013614541476
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	4013614542138

Classifications **Object Classification** Q Code EC000066 - Magnet contactor, AC-switching ETIM 5 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) 3709434

Categories

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

