

PRODUCT-DETAILS

MC1C310ATD MC1C310ATD Mini Contactor 3NO AUX 1NO 24VDC

General Information	
Extended Product Type	MC1C310ATD
Product ID	1SAL100216R9901
EAN	4013614542725
Catalog Description	MC1C310ATD Mini Contactor 3NO AUX 1NO 24VDC
Long Description	The MC1C310ATD 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
Customs Tariff Number	85365080
Popular Downloads Instructions and Manuals	2CDC103061M6801
Dimensions	
Product Net Width	45 mm
Product Net Height	48 mm
Product Net Depth / Length	68 mm
Product Net Weight	0.25 kg
Technical	
Number of Poles	3
Mini Contactor Type	Mini Contactor
Rated Operational Voltage	Auxiliary Circuit 690 V AC

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	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 DC 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)	(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 (690 V) 55 °C 20 A (690 V) 70 °C 16 A
Rated Operational Power AC-3 (P _e)	(230 V) Single Phase 1.1 kW (230 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NC 3 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 (l_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)	(125 V) 0.7 A (24 V) 5 A (250 V) 0.3 A (440 V) 0.15 A (48 V) 2.5 A
Conventional Free-air Thermal Current (I _{th})	Auxiliary Circuit 16 A Main Circuit 20 A
Rated Control Circuit Voltage (U _c)	24 V DC
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC 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
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 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 (230 V AC) Single Phase 10 A (240 V AC) Three Phase 9.6 A (380 415 V AC) Three Phase 6.1 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 (230 V AC) Single Phase 1.5 Hp (240 V AC) Three Phase 3 Hp (380 415 V AC) Three Phase 3 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

Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb

Environmental	
Ambient Air Temperature	Operation -40 +55 °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

Certificates and Declarations (Document Number)	
BV Certificate	BV_M_Range
CB Certificate	1SAA971000-2001
CCC Certificate	CCC_MC1_MC2
cULus Certificate	cUL_E191658
Declaration of Conformity - CE	1SAD938502-0305
EAC Certificate	1SAA971000-2701
Instructions and Manuals	2CDC103061M6801
RINA Certificate	1SAA971000-0201
RoHS Information	1SAD038501-0305

	Container Information
box 1 piec	Package Level 1 Units
46 m	Package Level 1 Width
70 m	Package Level 1 Height
49 m	Package Level 1 Depth / Length
0.255 k	Package Level 1 Gross Weight
401361454272	Package Level 1 EAN
box 10 piec	Package Level 2 Units
243 m	Package Level 2 Width
80 mi	Package Level 2 Height
106 m	Package Level 2 Depth / Length
2.61 k	Package Level 2 Gross Weight
401361454322	Package Level 2 EAN

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	7.0 27371003
UNSPSC	39121529

Categories

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