

PRODUCT-DETAILS

MC2K301ATD MC2K301ATD Mini Contactor 24 V DC - 3 NO -0 NC - Screw Terminals



General Information	
Extended Product Type	MC2K301ATD
Product ID	1SAL103591R9902
EAN	4013614545207
Catalog Description	MC2K301ATD Mini Contactor 24 V DC - 3 NO - 0 NC - Screw Terminals
Long Description	The MC2K301ATD 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 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Thanks to the very low energy consumption coil, this product can be directly controlled by a PLC.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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MC2K301ATD

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	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 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 (Ui)	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) 70 °C 16 A (400 V) 70 °C 16 A (500 V) 70 °C 16 A
Rated Operational Power AC-3 (P _e)	(230 V) Three Phase 3 kW (400 V) Three Phase 5.5 kW (500 V) Three Phase 5.5 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 96 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 (500 V) 2.5 A (690 V) 1.5 A

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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	Auxiliary Circuit 10 A
Thermal Current (Ith)	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 $\theta \le 55$ °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 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 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	
Maximum Operating	

Maximum Operating Voltage UL/CSA

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Main Circuit 600 V AC

Full Load Amps Motor	(115 V AC) Single Phase 9.8 A
Use	(200 V AC) Three Phase 11 A (220 240 V AC) Three Phase 9.6 A
	(230 V AC) Single Phase 12 A
	(440 480 V AC) Three Phase 11 A
Horsenower Pating	(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
	(220 240 V AC) Three Phase 3 Hp
	(230 V AC) Single Phase 2 Hp
	(440 480 V AC) Three Phase 7.5 Hp (550 600 V AC) Three Phase 10 Hp
General Use Rating	(600 V AC) 20 A
UL/CSA	
Contact Rating UL/CSA	A600 Q600
Connecting Capacity	Stranded 1/2x 18-12 AWG
Main Circuit UL/CSA	
Connecting Capacity	Stranded 1/2x 18-12 AWG
Auxiliary Circuit UL/CSA Tightening Torque	Auxiliary Circuit 7 in Ib
UL/CSA	Control Circuit 7 in-lb
· · · · · · · · · · · · · · · · · · ·	Main Circuit 7 in·lb
Environmental	
Ambient Air	Operation -40 +70 °C
Temperature	Storage -55 +80 °C
Maximum Operating Altitude Permissible	3000 m
Altitude Permissible Resistance to Shock acc.	3000 m
Altitude Permissible	
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations	11 ms Pulse 25g
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals	11 ms Pulse 25g
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance	11 ms Pulse 25g 5g 3 150 Hz
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template	11 ms Pulse 25g 5g 3 150 Hz
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT)	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006202
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration ROHS Information ROHS Status	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Information RoHS Status WEEE B2C / B2B WEEE Category	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information ROHS Status WEEE B2C / B2B	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status WEEE B2C / B2B WEEE Category Certificates and Declarations A2L Certificate – IEC	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006207 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) 15AA971000-4601
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration ROHS Information ROHS Information ROHS Status WEEE B2C / B2B WEEE Category Certificates and Declarations A2L Certificate – IEC CB Certificate	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006202 2CMT2021-006207 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) 15AA971000-4601 15AA971000-2001
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration ROHS Information ROHS Status WEEE B2C / B2B WEEE Category Certificates and Declarations A2L Certificate – IEC CB Certificate CQC Certificate	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006207 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) 15AA971000-4601 15AA971000-2001 CQC2019010304197131
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration ROHS Information ROHS Information ROHS Status WEEE B2C / B2B WEEE Category Certificates and Declarations A2L Certificate – IEC CB Certificate	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006202 2CMT2021-006202 2CMT2021-006202 2CMT2021-006202 Second 2000 Second 2000 Second 2000 2CMT2021-006202 Second 2000 Second 2000 2CMT2021-006202 2CMT2021-006202 2CMT2021-006202 Second 2000 Second 2000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration ROHS Information ROHS Status WEEE B2C / B2B WEEE Category Certificates and Declarations A2L Certificate – IEC CB Certificate CQC Certificate Declaration of	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006207 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) 1SAA971000-4601 1SAA971000-2001 CQC2019010304197131
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration ROHS Information ROHS Status WEEE B2C / B2B WEEE Category Certificates and Declarations A2L Certificate – IEC CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) 1SAA971000-4601 1SAA971000-2001 CQC2019010304197131 2020980304001602
Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Resistance to Vibrations Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration ROHS Information ROHS Status WEEE B2C / B2B WEEE Category Certificates and Declarations A2L Certificate – IEC CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE	11 ms Pulse 25g 5g 3 150 Hz 9AKK108467A5658 2CMT2021-006202 2CMT2021-006207 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) 1SAA971000-4601 1SAA971000-2001 CQC2019010304197131 2020980304001602 1SAD101100-3201

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Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	46 mm
Package Level 1 Height	70 mm
Package Level 1 Depth / Length	49 mm
Package Level 1 Gross Weight	0.255 kg
Package Level 1 EAN	4013614545207
Package Level 2 Units	box 10 piece
Package Level 2 Width	243 mm
Package Level 2 Height	80 mm
Package Level 2 Depth / Length	106 mm
Package Level 2 Gross Weight	2.61 kg
Package Level 2 EAN	4013614545504

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)	3709663

Categories

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

MC2K301ATD

