

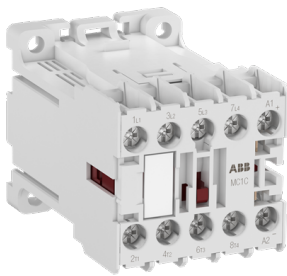



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 PRODUCT-DETAILS

# MC1CA00ATWG

## MC1CA00ATWG Mini Contactor 48 V DC - 0 NO - 4 NC - Screw Terminals




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**General Information**

Extended Product Type	MC1CA00ATWG
Product ID	1SAL103102R9901
EAN	4013614543029
Catalog Description	MC1CA00ATWG Mini Contactor 48 V DC - 0 NO - 4 NC - Screw Terminals

Long Description	The MC1CA00ATWG mini contactor is a dimension optimized 4 pole contactor with screw terminals. This device is a great solution when high performances are needed but the space is limited. Mini contactors are used in residential buildings, 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 equipped with an extended operating limits coil and it's suitable for wall or rail mounting.
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**Ordering**

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

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**Popular Downloads**

EPLAN Data	9AAC426184_EPLAN
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	2CDC103061M6801
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product Net Width	45 mm
Product Net Depth / Length	68 mm
Product Net Height	48 mm
Product Net Weight	0.25 kg

## Technical

Number of Main Contacts NO	0
Number of Main Contacts NC	4
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Number of Poles	4P
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 440 V DC
Rated Frequency (f)	Control Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
Conventional Free-air Thermal Current ( $I_{th}$ )	Main Circuit 20 A
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 Current AC-3 ( $I_e$ )	(230 V) 55 °C 9 A (400 V) 55 °C 9 A (500 V) 55 °C 8 A (690 V) NC 55 °C 4 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, NC 3 kW
Rated Breaking Capacity AC-3	8 x $I_e$ / AC-3
Rated Making Capacity AC-3	10 x $I_e$ / AC-3
Rated Short-time Withstand Current Low	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A

Voltage (I <sub>cw</sub> )	
Rated Insulation Voltage (U <sub>i</sub> )	750 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Main Circuit 6 kV
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
Mechanical Durability	Nr. Operations 10000000 cycle
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U <sub>c</sub> (at θ ≤ 55 °C)
Rated Control Circuit Voltage (U <sub>c</sub> )	48 V DC
Coil Consumption	Average Holding Value DC 4 W Average Pull-in Value DC 4 W
Power Loss	at Rated Operating Conditions AC-1 per Pole 0.7 W
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
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1x 0.75 ... 4 mm <sup>2</sup> Rigid 2x 0.75 ... 2.5 mm <sup>2</sup>
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
Wire Stripping Length	Control Circuit 9 mm Main Circuit 9 mm
Degree of Protection	Control Circuit Terminals IP20 Main Circuit Terminals IP20
Recommended Screw Driver	Pozidriv 2
Tightening Torque	Control Circuit 0.8 N·m Main Circuit 0.8 ... 1.0 N·m
Terminal Type	Screw Terminals
Mini Contactor Type	Mini Contactor
Product Name	Mini Contactor

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
General Use Rating UL/CSA	(600 V AC) 20 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
Connecting Capacity Main Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA	Control Circuit 7 in·lb Main Circuit 7 in·lb

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
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## 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	5g 3 ... 150 Hz

## Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

## Certificates and Declarations

A2L Certificate – IEC	1SAA971000-4601
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 Depth / Length	49 mm
Package Level 1 Height	70 mm
Package Level 1 Gross Weight	0.255 kg
Package Level 1 EAN	4013614543029
Package Level 2 Units	box 10 piece
Package Level 2 Width	243 mm

Package Level 2 Depth / Length	106 mm
Package Level 2 Height	80 mm
Package Level 2 Gross Weight	2.61 kg
Package Level 2 EAN	4013614543524

## External Classifications and Standards

Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
E-Number (Finland)	3709618

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Mini Contactors

