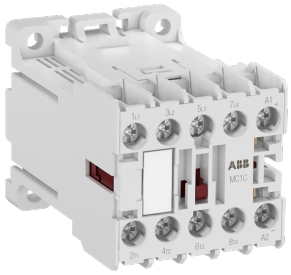
PRODUCT-DETAILS

MC1C400ATWG

MC1C400ATWG Mini Contactor 4NO 48VDC +/- 30%



General Information

Extended Product Type	MC1C400ATWG
Product ID	1SAL220364R9901
EAN	4013614542978
Catalog Description	MC1C400ATWG Mini Contactor 4NO 48VDC +/-30%
Long Description	The MC1C400ATWG 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 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 equipped with an extended operating limits coil and it's 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	4
Mini Contactor Type	Mini Contactor
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
Rated Impulse Withstand Voltage (U_{imp})	Main Circuit 6 kV
Rated Insulation Voltage (U_i)	750 V
Number of Main Contacts NC	0
Number of Main Contacts NO	4
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	0
Conventional Free-air Thermal Current (I_{th})	Main Circuit 20 A
Rated Control Circuit Voltage (U_c)	48 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	Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability	10000000 cycle
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 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	Control Circuit 9 mm Main Circuit 9 mm
Tightening Torque	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 UL 60947-1 UL 60947-4-1

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
Tightening Torque UL/CSA	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

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	4013614542978
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	4013614543470

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

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