

PRODUCT-DETAILS

MC2CB00ATWDD-RAIL

MC2CB00ATWDD-RAIL Mini Contactor 17 ... 30 V DC - 2 NO - 2 NC - Screw Terminals



General Information

Extended Product Type	MC2CB00ATWDD-RAIL
Product ID	1SAL102110R9912
EAN	4013614548284
Catalog Description	MC2CB00ATWDD-RAIL Mini Contactor 17 ... 30 V DC - 2 NO - 2 NC - Screw Terminals
Long Description	The MC2CB00ATWDD-RAIL 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 5.5 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
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	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	2
Number of Main Contacts NO	2
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 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	0
Number of Auxiliary Contacts NO	0
Conventional Free-air Thermal Current (I_{th})	Main Circuit 20 A
Rated Control Circuit Voltage (U_c)	17 ... 30 V DC
Coil Operating Limits	(acc. to IEC 60947-4-1) for DC supply U_c Min. ... U_c Max. (at $\theta \leq 55$ °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 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	Control Circuit 9 mm Main Circuit 9 mm
Tightening Torque	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 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 (220 ... 240 V AC) Three Phase 9.6 A (230 V AC) Single Phase 12 A (440 ... 480 V AC) Three Phase 11 A (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 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 ... +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 acc. to IEC 60068-2-6	5g / 3 ... 150 Hz
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations

BV Certificate	1SAA971000-0201
CB Certificate	1SAA971000-2001
CQC Certificate	CQC2019010304197131
Declaration of Conformity	2020980304001602

- CCC

Declaration of Conformity 1SAD101100-3201

- CE

Declaration of Conformity 1SAD201100-3201

- UKCA

RINA Certificate 1SAA971001-0801

UL Certificate E191658-19880826

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 4013614548284

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 4013614548444

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) 3709548

Categories

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

