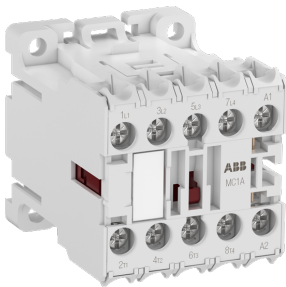




PRODUCT-DETAILS

MC1AB00ARJ

MC1AB00ARJ Mini Contactor 50 Hz 110 ... 115 V AC - 2 NO - 2 NC - Ring-Tongue Terminals



| General Information | |
|------------------------|--|
| Extended Product Type | MC1AB00ARJ |
| Product ID | 1SAL102174R9901 |
| EAN | 4013614543814 |
| Catalog Description | MC1AB00ARJ Mini Contactor 50 Hz 110 ... 115 V AC - 2 NO - 2 NC - Ring-Tongue Terminals |
| Long Description | The MC1AB00ARJ mini contactor is a dimension optimized 4 pole contactor with special screw terminals for a connection with ring tongue ferrules. 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 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

| Dimensions | |
|----------------------------|---------|
| Product Net Width | 45 mm |
| Product Net Height | 48 mm |
| Product Net Depth / Length | 56 mm |
| Product Net Weight | 0.17 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 50 Hz Control Circuit 60 Hz 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 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 Low Voltage (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) | 50 Hz 110 ... 115 V AC 60 Hz 110 ... 120 V AC |
| Coil Operating Limits | (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U _c (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 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ² |
| Connecting Capacity Control Circuit | 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 10 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 (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 |
| 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 | 5g 3 ... 150 Hz |

| Material Compliance | |
|---|--|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Information | 2CMT2021-006277 |
| RoHS Status | 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 | |
|----------------------------------|---------------------|
| 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 Height | 58 mm |
| Package Level 1 Depth / Length | 49 mm |
| Package Level 1 Gross Weight | 0.175 kg |
| Package Level 1 EAN | 4013614543814 |
| Package Level 2 Units | box 20 piece |
| Package Level 2 Width | 237 mm |
| Package Level 2 Height | 120 mm |
| Package Level 2 Depth / Length | 102 mm |
| Package Level 2 Gross Weight | 3.55 kg |
| Package Level 2 EAN | 4013614543951 |

| 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) | 3709572 |

Categories

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

