



PRODUCT-DETAILS

MCRC031ATWD

MCRC031ATWD Mini Contactor Relay

3NO+1NC 24VDC +/-30%

General Information

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| Extended Product Type | MCRC031ATWD |
| Product ID | 1SAH220409R9900 |
| EAN | 4013614547041 |
| Catalog Description | MCRC031ATWD Mini Contactor Relay 3NO+1NC 24VDC +/-30% |
| Long Description | The MCRC031ATWD mini contactor relay is a dimension optimized 4 pole contactor relay 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 switching of control signals up to 6 A / 240 V (AC-15). The product is equipped with an extended operating limits coil and it's suitable for wall or rail mounting. |

Ordering

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|------------------------|---------------|
| EAN | 4013614547041 |
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85365080 |

Dimensions

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| Product Net Width | 45 mm |
| Product Net Height | 48 mm |
| Product Net Depth / Length | 68 mm |
| Product Net Weight | 0.235 kg |

Container Information

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| 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 | 0.24 kg |

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| Package Level 1 EAN | 4013614547041 |
| 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 | 2.46 kg |
| Package Level 2 EAN | 4013614547447 |

Environmental

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| Ambient Air Temperature | Operation -40 ... +55 °C Storage -55 ... +80 °C |
| Maximum Operating Altitude Permissible | 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g / 3 ... 150 Hz |
| Resistance to Shock acc. to IEC 60068-2-27 | 11 ms Pulse 25g |
| RoHS Status | Following EU Directive 2011/65/EU |

Technical UL/CSA

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| Contact Rating UL/CSA | A600 Q600 |
| General Use Rating UL/CSA | (600 V AC) 10 A |
| Connecting Capacity Auxiliary Circuit UL/CSA | Stranded 1/2x 18-12 AWG |
| Tightening Torque UL/CSA | Auxiliary Circuit 7 in-lb Control Circuit 7 in-lb Main Circuit 7 in-lb |
| Pilot Duty of Contact Elements acc. UL508 | A600 Q600 |

Additional Information

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| Coil Consumption | Average Holding Value DC 4 W Average Pull-in Value DC 4 W |
| Coil Operating Limits | (acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x U _c (at $\theta \leq 55$ °C) |
| 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 |
| Conventional Free-air | Auxiliary Circuit 16 A |

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| Thermal Current (I_{th}) | |
| Degree of Protection | Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20 |
| Maximum Electrical Switching Frequency | AC-15 360 cycles per hour DC-13 360 cycles per hour |
| Mechanical Durability | 10000000 cycle |
| Mini Contactor Type | Mini Contactor Relay |
| Minimum Switching Capacity | Auxiliary Circuit 17 V Auxiliary Circuit 5 mA |
| 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 |
| Mounting Position | Any, Position 1-6 |
| Mounting Type | DIN-rail Screw |
| Number of Auxiliary Contacts NC | 1 |
| Number of Auxiliary Contacts NO | 3 |
| Number of Poles | 0 |
| Number of Main Contacts NC | 0 |
| Number of Main Contacts NO | 0 |
| Power Loss | at Rated Operating Conditions per Pole 0.4 W |
| Product Main Type | MCR |
| Product Name | Mini Contactor |
| Rated Control Circuit Voltage (U_c) | 24 V DC |
| Rated Frequency (f) | Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit DC |
| Rated Impulse Withstand Voltage (U_{imp}) | Auxiliary Circuit 6 kV Main Circuit 6 kV |
| Rated Insulation Voltage (U_i) | 750 V |
| Rated Operational Current AC-15 (I_a) | (240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A |
| Rated Operational Current DC-13 (I_a) | (125 V) 0.7 A (24 V) 5 A (250 V) 0.3 A (440 V) 0.15 A (48 V) 2.5 A |
| Rated Operational Voltage | Auxiliary Circuit 690 V AC Auxiliary Circuit 440 V DC |
| Standards | IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-4-1 UL 60947-5-1 |
| Terminal Type | Screw Terminals |
| Tightening Torque | Auxiliary Circuit 0.8 ... 1.0 N·m Control Circuit 0.8 N·m |
| Wire Stripping Length | Auxiliary Circuit 9 mm |

Control Circuit 9 mm

Certificates and Declarations (Document Number)

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|-----------------------------------|-----------------|
| BV Certificate | BV_M_Range |
| CB Certificate | 1SAA971001-2001 |
| CCC Certificate | CCC_MCR |
| cULus Certificate | cUL_E48139 |
| Declaration of Conformity - CE | 1SAD938502-0305 |
| EAC Certificate | 1SAA971001-2701 |
| Instructions and Manuals | 2CDC103061M6801 |
| RoHS Information | 1SAD038501-0305 |

Classifications

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| ETIM 5 | EC000196 - Contactor relay |
| ETIM 6 | EC000196 - Contactor relay |
| ETIM 7 | EC000196 - Contactor relay |
| Object Classification Code | K |
| UNSPSC | 39121500 |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| eClass | 7.0 27371001 |

Categories

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