



PRODUCT-DETAILS

MCRA013AT6

MCRA013AT6 Mini Contactor Relay 1NO+3NC 220-230V 50/60Hz

General Information

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| Extended Product Type | MCRA013AT6 |
| Product ID | 1SAH102081R9900 |
| EAN | 4013614546143 |
| Catalog Description | MCRA013AT6 Mini Contactor Relay 1NO+3NC 220-230V 50/60Hz |

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| Long Description | The MCRA013AT6 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 suitable for wall or rail mounting. |
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Ordering

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|------------------------|---------------|
| EAN | 4013614546143 |
| 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 | 56 mm |
| Product Net Weight | 0.17 kg |

Container Information

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| 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 | 4013614546143 |

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| 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 | 4013614546693 |

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 50 Hz 5.3 V·A Average Pull-in Value 50 Hz 5.3 V·A |
| Coil Operating Limits | (acc. to IEC 60947-5-1) for AC 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 Thermal Current (I _{th}) | Auxiliary Circuit 16 A |

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| 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 | 3 |
| Number of Auxiliary Contacts NO | 1 |
| 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) | 220 ... 230 V AC |
| Rated Frequency (f) | Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz |
| 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_e) | (240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A |
| Rated Operational Current DC-13 (I_e) | (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