

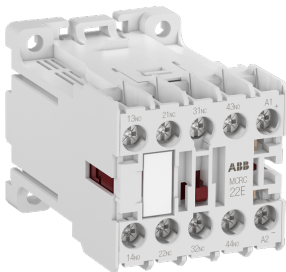


PRODUCT-DETAILS

# MCRC031ATWL

## MCRC031ATWL Mini Contactor Relay

### 3NO+1NC 125VDC +/-30%



General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | MCRC031ATWL                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product ID            | 1SAH220457R9900                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EAN                   | 4013614547072                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Catalog Description   | MCRC031ATWL Mini Contactor Relay 3NO+1NC 125VDC +/-30%                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Long Description      | The MCRC031ATWL 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

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85365080 |
| Product Main Type      | MCR      |

Popular Downloads

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 2CDC103061M6801 |
|--------------------------|-----------------|

Dimensions

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

Technical

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil Consumption                                    | Average Holding Value DC 4 W<br>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 <sub>c</sub> (at θ ≤ 55 °C)                                                                                                                                                                                                                                                                                                 |
| Connecting Capacity Auxiliary Circuit               | Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1x 0.75 ... 4 mm <sup>2</sup><br>Rigid 2x 0.75 ... 2.5 mm <sup>2</sup> |
| Connecting Capacity Control Circuit                 | Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>                                      |
| Maximum Electrical Switching Frequency              | (AC-15) 360 cycles per hour<br>(DC-13) 360 cycles per hour                                                                                                                                                                                                                                                                                                                         |
| Mechanical Durability                               | 10000000 cycle                                                                                                                                                                                                                                                                                                                                                                     |
| Mini Contactor Type                                 | Mini Contactor Relay                                                                                                                                                                                                                                                                                                                                                               |
| Minimum Mounting Distance                           | Other Device Same Type, Horizontal 0 mm                                                                                                                                                                                                                                                                                                                                            |
| Minimum Switching Capacity                          | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA                                                                                                                                                                                                                                                                                                                                   |
| Mounting Position                                   | 1 ... 6                                                                                                                                                                                                                                                                                                                                                                            |
| Mounting Type                                       | DIN-Rail<br>Screw                                                                                                                                                                                                                                                                                                                                                                  |
| Mounting on DIN Rail                                | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                                                                                                                                     |
| Number of Auxiliary Contacts NC                     | 1                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Auxiliary Contacts NO                     | 3                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Main Contacts NC                          | 0                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Main Contacts NO                          | 0                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Poles                                     | 0                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Loss                                          | at Rated Operating Conditions per Pole 0.4 W                                                                                                                                                                                                                                                                                                                                       |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 125 V DC                                                                                                                                                                                                                                                                                                                                                                           |
| Rated Frequency (f)                                 | Auxiliary Circuit 50 Hz<br>Auxiliary Circuit 60 Hz<br>Auxiliary Circuit DC<br>Control Circuit DC                                                                                                                                                                                                                                                                                   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | Auxiliary Circuit 6 kV                                                                                                                                                                                                                                                                                                                                                             |
| Rated Insulation Voltage (U <sub>i</sub> )          | 750 V                                                                                                                                                                                                                                                                                                                                                                              |
| Rated Operational Current AC-15 (I <sub>θ</sub> )   | (240 V) 6 A<br>(400 V) 4 A<br>(500 V) 2.5 A                                                                                                                                                                                                                                                                                                                                        |

|                                  |                                   |
|----------------------------------|-----------------------------------|
|                                  | (690 V) 1.5 A                     |
| Rated Operational Current        | (24 V) 5 A                        |
| DC-13 (I <sub>e</sub> )          | (48 V) 2.5 A                      |
|                                  | (125 V) 0.55 A                    |
|                                  | (250 V) 0.3 A                     |
|                                  | (440 V) 0.15 A                    |
| Rated Operational Voltage        | Auxiliary Circuit 690 V AC        |
|                                  | Auxiliary Circuit 440 V DC        |
| Recommended Screw Driver         | Pozidriv 2                        |
| Short-Circuit Protective Devices | gG Type Fuses 10 A                |
| Standards                        | IEC/EN 60947-1                    |
|                                  | IEC/EN 60947-5-1                  |
|                                  | UL 60947-1                        |
|                                  | 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              |

Technical UL/CSA

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

Environmental

|                                                          |                                  |
|----------------------------------------------------------|----------------------------------|
| Ambient Air Temperature                                  | Operation -40 ... +70 °C         |
|                                                          | Storage -55 ... +80 °C           |
| Conventional Free-air Thermal Current (I <sub>th</sub> ) | Auxiliary Circuit 10 A           |
| Degree of Protection                                     | Auxiliary Circuit Terminals IP20 |
|                                                          | Control Circuit Terminals IP20   |
|                                                          | Main Circuit Terminals IP20      |
| 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 Category5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

|                                     |                     |
|-------------------------------------|---------------------|
| BV Certificate                      | 1SAA971000-0201     |
| CB Certificate                      | 1SAA971001-2001     |
| CQC Certificate                     | CQC2019010303193580 |
| Declaration of Conformity<br>- CCC  | 2020980303000255    |
| Declaration of Conformity<br>- CE   | 1SAD101100-3201     |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3201     |
| UL Certificate                      | E48139-19880829     |

Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 46 mm         |
| Package Level 1 Depth /<br>Length | 49 mm         |
| Package Level 1 Height            | 70 mm         |
| Package Level 1 Gross<br>Weight   | 0.24 kg       |
| Package Level 1 EAN               | 4013614547072 |
| Package Level 2 Units             | box 10 piece  |
| Package Level 2 Width             | 243 mm        |
| Package Level 2 Depth /<br>Length | 106 mm        |
| Package Level 2 Height            | 80 mm         |
| Package Level 2 Gross<br>Weight   | 2.46 kg       |
| Package Level 2 EAN               | 4013614547478 |

Classifications

|                            |                            |
|----------------------------|----------------------------|
| eClass                     | V11.0 : 27371001           |
| ETIM 6                     | EC000196 - Contactor relay |
| ETIM 7                     | EC000196 - Contactor relay |
| ETIM 8                     | EC000196 - Contactor relay |
| ETIM 9                     | EC000196 - Contactor relay |
| Object Classification Code | K                          |
| UNSPSC                     | 39121500                   |

Categories

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

