



## PRODUCT-DETAILS

# MCRA022AT4

## MCRA022AT4 Mini Contactor Relay 120 V AC 2NO 2NC Screw Terminals



360°

### General Information

Extended Product Type:	MCRA022AT4
Product ID:	1SAH102058R9900
EAN:	4013614546020
Catalog Description:	MCRA022AT4 Mini Contactor Relay 120 V AC 2NO 2NC Screw Terminals
Long Description:	The MCRA022AT4 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.
Display Name:	MCRA022AT4

### Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

## Popular Downloads

<b>EPLAN Data:</b>	9AAC426189_EPLAN
<b>Data Sheet, Technical Information:</b>	1SBC100214C0202
<b>Instructions and Manuals:</b>	2CDC103061M6801
<b>CAD Dimensional Drawing:</b>	2CDC001079B0201

## Dimensions

<b>Product Net Width:</b>	45 mm
<b>Product Net Depth / Length:</b>	56 mm
<b>Product Net Height:</b>	48 mm
<b>Product Net Weight:</b>	0.17 kg

## Technical

<b>Number of Main Contacts NO:</b>	0
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	2
<b>Number of Auxiliary Contacts NC:</b>	2
<b>Number of Poles:</b>	4P
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-5-1
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 690 V AC Auxiliary Circuit 440 V DC
<b>Rated Frequency (f):</b>	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	Auxiliary Circuit 10 A
<b>Rated Operational Current AC-15 (<math>I_e</math>):</b>	(240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A
<b>Rated Operational Current DC-13 (<math>I_e</math>):</b>	(24 V) 5 A (48 V) 2.5 A (125 V) 0.55 A (250 V) 0.3 A (440 V) 0.15 A
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 10 A
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	750 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Auxiliary Circuit 6 kV
<b>Maximum Electrical Switching Frequency:</b>	(AC-15) 360 cycles per hour (DC-13) 360 cycles per hour
<b>Mechanical Durability:</b>	Nr. Operations 10000000 cycle

<b>Minimum Switching Capacity:</b>	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-5-1) for AC supply 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55$ °C)
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	120 V AC
<b>Coil Consumption:</b>	Average Holding Value 50 Hz 5.3 V·A Average Pull-in Value 50 Hz 5.3 V·A
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 0.4 W
<b>Mounting on DIN Rail:</b>	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
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1x 0.75 ... 4 mm <sup>2</sup> Rigid 2x 0.75 ... 2.5 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Control Circuit 9 mm
<b>Degree of Protection:</b>	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.0 N·m Control Circuit 0.8 N·m
<b>Terminal Type:</b>	Screw Terminals
<b>Mini Contactor Type:</b>	Mini Contactor Relay
<b>Product Name:</b>	Mini Contactor Relay

## Technical UL/CSA

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

## Environmental

<b>Ambient Air Temperature:</b>	Operation -40 ... +70 °C Storage -55 ... +80 °C
<b>Maximum Operating Altitude Permissible:</b>	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 Declaration:	2CMT2021-006277
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA:	2CMT2023-006525
WEEE B2C / B2B:	Business To Business
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

## Certificates and Declarations

A2L Certificate – IEC:	1SAA971000-4601
BV Certificate:	1SAA971000-0201
CB Certificate:	1SAA971001-2001
CQC Certificate:	CQC2019010303193580
Declaration of Conformity - CCC:	2020980303000255
Declaration of Conformity - CE:	1SAD101100-3201
Declaration of Conformity - 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 / Length:	49 mm
Package Level 1 Height:	58 mm
Package Level 1 Gross Weight:	0.175 kg
Package Level 1 EAN:	4013614546020
Package Level 2 Units:	box 20 piece
Package Level 2 Width:	237 mm
Package Level 2 Depth / Length:	102 mm
Package Level 2 Height:	120 mm
Package Level 2 Gross Weight:	3.55 kg
Package Level 2 EAN:	4013614546570

## External Classifications and Standards

<b>Object Classification Code:</b>	K
<b>ETIM 7:</b>	EC000196 - Contactor relay
<b>ETIM 8:</b>	EC000196 - Contactor relay
<b>ETIM 9:</b>	EC000196 - Contactor relay
<b>eClass:</b>	V11.0 : 27371001
<b>UNSPSC:</b>	39121500

## Categories

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

