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PRODUCT-DETAILS

## MCRA031AT9 MCRA031AT9 Mini Contactor Relay 3NO+1NC 48V 50/60Hz



General Information	
Extended Product Type	MCRA031AT9
Product ID	1SAH108238R9900
EAN	4013614545948
Catalog Description	MCRA031AT9 Mini Contactor Relay 3NO+1NC 48V 50/60Hz
Long Description	The MCRA031AT9 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 buldings, 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.

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

Popular Download	ls
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Instructions and Manuals
CAD Dimensional
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## Drawing

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	56 mm
Product Net Height	48 mm
Product Net Weight	0.17 kg

Technical Coil Consumption	Average Holding Value 50 Hz 5.3 V-A
Con Consumption	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 Uc (at $\theta \le 55$ °C)
Connecting Capacity Auxiliary Circuit	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>
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 0.75 2.5 mm Flexible with Ferrule 2x 0.75 1.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Flexible 1/2x 0.75 2.5 mm Rigid 1/2x 0.75 2.5 mm
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 Mounting Distance	Other Device Same Type, Horizontal 0 mm
Minimum Switching Capacity	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Mounting Position	1 6
Mounting Type	DIN-Rail Screw
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
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	3
Number of Main Contacts NC	C
Number of Main Contacts NO	C
Number of Poles	0
Power Loss	at Rated Operating Conditions per Pole 0.4 W
Rated Control Circuit Voltage (U <sub>c</sub> )	48 V AC
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit 50 Control Circuit 50 Hz Control Circuit 60 Hz
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>e</sub> )	(240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A

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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
Wire Stripping Length	Control Circuit 0.8 N·m  Auxiliary Circuit 9 mm
	Control Circuit 9 mm
Technical UL/CSA	
Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 18-12 AWG
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
Tightaning Tayaya	Q600 Austilians Gravita 7 in Jh
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
<b>3</b>	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
resistance to vibrations	34 3 130 Hz
Material Compliance	
	0AVV100467AF660
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)

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Certificates and Declarations	
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

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	4013614545948
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	4013614546495

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	<u>K</u>
UNSPSC	39121500

## Categories

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