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PRODUCT-DETAILS

MCRA004AT1

MCRA004AT1 Mini Contactor Relay 24 V AC - 0 NO - 0 NC - Screw Terminals



General Information	
Extended Product Type	MCRA004AT1
Product ID	1SAH102097R9900
EAN	4013614546235
Catalog Description	MCRA004AT1 Mini Contactor Relay 24 V AC - 0 NO - 0 NC - Screw Terminals
Long Description	The MCRA004AT1 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

Popular Downloads

Data Sheet, Technical

1SBC100214C0202 - Chapter 4 (InDesign) - Main catalog Motor Protection

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Information	and control
Instructions and	2CDC103061M6801
Manuals	
CAD Dimensional	2CDC001079B0201
Drawing	

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

Number of Main Contacts NO Number of Main Contacts NC Number of Auxiliary Contacts NC Number of Poles Standards IEC/EN 60947-1 IEC/EN 60947-5-1 IEC/EN 60947-5 IEC/EN 60947-		
Contacts NO Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NC Number of Auxiliary Contacts NC Number of Pousiliary Control Circuit Countrol Circuit 40 VD Auxiliary Circuit 60 VD Control Circuit 60 Hz Control Circuit 60 Hz Control Circuit 60 Hz Control Circuit 60 Hz Control Circuit 50 VD Control Circuit	Technical	
Contacts NC 0 Number of Auxiliary 4 Contacts NC 4 Number of Poles 0P Standards IEC/EN 60947-5-1 UL 6	Number of Main Contacts NO	0
Contacts NO Number of Auxiliary Contacts NC Number of Poles Standards IEC/EN 60947-51 IEC/EN 60947-1 IEC/EN 60947-1 IEC/EN 60947-1 IEC/EN 60	Number of Main Contacts NC	0
Contacts NC Number of Poles Standards IEC/EN 60947-51 IEC/EN 60947-1 IEC/EN	Number of Auxiliary Contacts NO	0
Standards Stan	Number of Auxiliary Contacts NC	4
Rated Operational Conventional Free-air Thermal Current (I _{th}) Rated Operational Conventional Free-air Auxiliary Circuit 50 Hz Control Circuit 60 Hz Cont	Number of Poles	0P
Voltage Rated Frequency (f) Rated Operational Conventional Free-air Thermal Current (Ith) Rated Operational Current AC-15 (Ie) Rated Operational Current AC-15 (Ie) Rated Operational Current DC-13 (Ie) Rated Operational Current DC-13 (Ie) Rated Operational Current DC-13 (Ie) Rated Insulation Voltage Rated Insulation Voltage (Ui) Rated Insulation Voltage (Uimp) Maximum Electrical Switching Frequency Retening Frequency R	Standards	IEC/EN 60947-5-1 UL 60947-1
Auxiliary Circuit 60 Hz Auxiliary Circuit 50 Hz Control Circuit 50 Hz Control Circuit 50 Hz Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit 10 A Thermal Current (Ith) Rated Operational Current AC-15 (Ie) (500 V) 2.5 A (500 V) 2.5 A (690 V) 1.5 A (690 V) 1.5 A (690 V) 1.5 A (225 V) 0.55 A (225 V) 0.35 A (225 V) 0.35 A (240 V) 0.55 A (240 V) 0.55 A (250 V) 0.3 A (440 V) 0.15 A Short-Circuit Protective Devices Rated Insulation Voltage (Ut) Cu) Rated Insulation Voltage (Uimp) Maximum Electrical Society Mithstand Voltage (Uimp) Maximum Electrical Society Mithstand Voltage (Pimp) Maximum Electrical Society Mithstand Voltage (Pimp) Maximum Electrical Society Mithstand Voltage (Pimp) Auxiliary Circuit 17 V Auxiliary Circuit 17 W Auxiliary Circuit 17 M	Rated Operational Voltage	
Thermal Current (Ith) Rated Operational (240 V) 6 A Current AC-15 (Ie) (400 V) 4 A (500 V) 2.5 A (500 V) 2.5 A (500 V) 2.5 A (690 V) 1.5 A Rated Operational (24 V) 5 A Current DC-13 (Ie) (48 V) 2.5 A (25 V) 0.55 A (25 V) 0.55 A (25 V) 0.5 A (25 V) 0.5 A (25 V) 0.15 A Short-Circuit Protective gG Type Fuses 10 A Devices Rated Insulation Voltage (Vinj) Rated Impulse Auxiliary Circuit 6 kV Withstand Voltage (Uimp) Maximum Electrical (AC-15) 360 cycles per hour Switching Frequency (DC-13) 360 cycles per hour Mechanical Durability 10000000 cycle Minimum Switching Auxiliary Circuit 17 V Capacity Auxiliary Circuit 17 M Auxiliary Circu	Rated Frequency (f)	Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit 50 Hz
Current AC-15 (le) (400 V) 4 A Current AC-15 (le) (500 V) 2.5 A (690 V) 1.5 A (690 V) 1.5 A Current DC-13 (le) (48 V) 2.5 A Current DC-13 (le) (125 V) 0.55 A (250 V) 0.3 A (440 V) 0.15 A Short-Circuit Protective gG Type Fuses 10 A Devices 750 V Rated Insulation Voltage Auxiliary Circuit 6 kV Withstand Voltage (U _{imp}) Auxiliary Circuit 6 kV Withstand Voltage (U _{imp}) (AC-15) 360 cycles per hour Switching Frequency (DC-13) 360 cycles per hour Mechanical Durability 10000000 cycle Minimum Switching Auxiliary Circuit 17 V Capacity Auxiliary Circuit 5 mA	Conventional Free-air Thermal Current (I _{th})	Auxiliary Circuit 10 A
Rated Operational Current DC-13 (le) (24 V) 5 A Current DC-13 (le) (125 V) 0.55 A (250 V) 0.3 A (440 V) 0.15 A Short-Circuit Protective Devices Rated Insulation Voltage (Ui) Rated Impulse Auxiliary Circuit 6 kV Withstand Voltage (Uimp) Maximum Electrical Switching Frequency Mechanical Durability Minimum Switching Auxiliary Circuit 17 V Auxiliary Circuit 5 mA	Rated Operational Current AC-15 (I _e)	(400 V) 4 A (500 V) 2.5 A
Short-Circuit Protective gG Type Fuses 10 A Devices Rated Insulation Voltage (Ui) Rated Impulse Auxiliary Circuit 6 kV Withstand Voltage (Uimp) Maximum Electrical (AC-15) 360 cycles per hour Switching Frequency (DC-13) 360 cycles per hour Mechanical Durability 10000000 cycle Minimum Switching Auxiliary Circuit 17 V Capacity Auxiliary Circuit 5 mA	Rated Operational Current DC-13 (I _e)	(24 V) 5 A (48 V) 2.5 A (125 V) 0.55 A (250 V) 0.3 A
(Ui) Rated Impulse Auxiliary Circuit 6 kV Withstand Voltage (Uimp) Maximum Electrical (AC-15) 360 cycles per hour Switching Frequency (DC-13) 360 cycles per hour Mechanical Durability 10000000 cycle Minimum Switching Minimum Switching Auxiliary Circuit 17 V Capacity Auxiliary Circuit 5 mA	Short-Circuit Protective Devices	
Withstand Voltage (U _{imp}) Maximum Electrical (AC-15) 360 cycles per hour Switching Frequency (DC-13) 360 cycles per hour Mechanical Durability 10000000 cycle Minimum Switching Auxiliary Circuit 17 V Capacity Auxiliary Circuit 5 mA	Rated Insulation Voltage (U _i)	750 V
Switching Frequency(DC-13) 360 cycles per hourMechanical Durability10000000 cycleMinimum SwitchingAuxiliary Circuit 17 VCapacityAuxiliary Circuit 5 mA	Rated Impulse Withstand Voltage (U _{imp})	Auxiliary Circuit 6 kV
Minimum Switching Auxiliary Circuit 17 V Capacity Auxiliary Circuit 5 mA	Maximum Electrical Switching Frequency	
Capacity Auxiliary Circuit 5 mA	Mechanical Durability	10000000 cycle
Coil Operating Limits (acc. to IEC 60947-5-1) for AC supply $0.85 ext{ } 1.1 ext{ x Uc (at } \theta \leq 55 ext{ °C)}$	Minimum Switching Capacity	•
	Coil Operating Limits	(acc. to IEC 60947-5-1) for AC supply 0.85 1.1 x Uc (at $\theta \le 55$ °C)

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Rated Control Circuit Voltage (U _C)	24 V AC
Coil Consumption	Average Holding Value 50 Hz 5.3 V-A Average Pull-in Value 50 Hz 5.3 V-A
Power Loss	at Rated Operating Conditions per Pole 0.4 W
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
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² Flexible with Ferrule 2x 0.75 1.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Flexible 1/2x 0.75 2.5 mm² Rigid 1x 0.75 4 mm² Rigid 2x 0.75 2.5 mm²
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² Flexible with Ferrule 2x 0.75 1.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Flexible 1/2x 0.75 2.5 mm² Rigid 1/2x 0.75 2.5 mm²
Wire Stripping Length	Auxiliary Circuit 9 mm Control Circuit 9 mm
Degree of Protection	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Recommended Screw Driver	Pozidriv 2
Tightening Torque	Auxiliary Circuit 0.8 1.0 N·m Control Circuit 0.8 N·m
Terminal Type	Screw Terminals
Mini Contactor Type	Mini Contactor Relay
Product Name	Mini Contactor Relay

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	600 V AC
General Use Rating UL/CSA	(600 V AC) 10 A
Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Contact Rating UL/CSA	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
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

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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)

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	4013614546235
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	4013614546785

External Classifications and Standards	
Object Classification Code	К
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121500

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Categories

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Mini Contactor Relays}$

