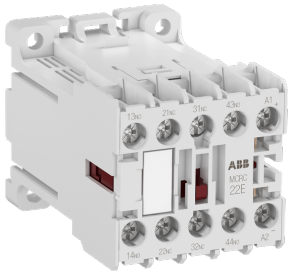
PRODUCT-DETAILS

MCRC031ATWN

MCRC031ATWN Mini Contactor Relay 3NO+1NC 220VDC +/-30%



General Information

Extended Product Type	MCRC031ATWN
Product ID	1SAH220403R9900
EAN	4013614547089
Catalog Description	MCRC031ATWN Mini Contactor Relay 3NO+1NC 220VDC +/-30%
Long Description	The MCRC031ATWN 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 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

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Popular Downloads

Instructions and Manuals	2CDC103061M6801
CAD Dimensional Drawing	2CDC001079B0201

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 Average Pull-in Value DC 4 W
Coil Operating Limits	(acc. to IEC 60947-5-1) for DC supply 0.85 ... 1.1 x Uc (at θ ≤ 55 °C)
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
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	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_c)	220 V DC
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz

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	Auxiliary Circuit DC Control Circuit DC
Rated Impulse Withstand Voltage (U_{imp})	Auxiliary 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)	(24 V) 5 A (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 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 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_{th})	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

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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 Category	5. 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 - 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	70 mm
Package Level 1 Gross Weight	0.24 kg
Package Level 1 EAN	4013614547089
Package Level 2 Units	box 10 piece
Package Level 2 Width	243 mm
Package Level 2 Depth / Length	106 mm
Package Level 2 Height	80 mm
Package Level 2 Gross Weight	2.46 kg
Package Level 2 EAN	4013614547485

Classifications

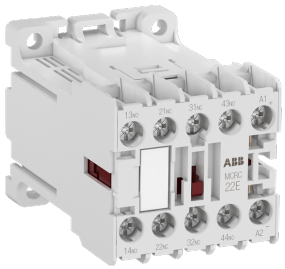
eClass	V11.0 : 27371001
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay

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Object Classification Code	K
UNSPSC	39121500

Categories

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



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