



 PRODUCT-DETAILS

MC2A310AT6

Mini Contactor MC2 220 ... 230 V AC - 3 NO - 0 NC - Screw Terminals



General Information

Extended Product Type:	MC2A310AT6
Product ID:	1SAL103579R9902
EAN:	4013614544101
Catalog Description:	Mini Contactor MC2 220 ... 230 V AC - 3 NO - 0 NC - Screw Terminals
Long Description:	The MC2A310AT6 mini contactor is a dimension optimized 3 pole contactor with 1 NO auxiliary contact and 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 the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. The product is suitable for wall or rail mounting.
Display Name:	MC2A310AT6

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

EPLAN Data:	9AAC426185_EPLAN
Data Sheet, Technical Information:	1SBC100214C0202
Instructions and Manuals:	2CDC103061M6801
CAD Dimensional Drawing:	2CDC001079B0201

Dimensions

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

Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	0
Number of Poles:	3P
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 UL 60947-5-1
Rated Operational Voltage:	Auxiliary Circuit 690 V AC Auxiliary Circuit 440 V DC Main Circuit 690 V AC Main Circuit 440 V DC
Rated Frequency (f):	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
Conventional Free-air Thermal Current (I_{th}):	Auxiliary Circuit 10 A Main Circuit 20 A
Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 20 A (690 V) 70 °C 16 A (230 V) 55 °C 20 A (230 V) 70 °C 16 A (400 V) 55 °C 20 A (400 V) 70 °C 16 A (500 V) 55 °C 20 A (500 V) 70 °C 16 A

Rated Operational Current AC-3 (I_e):	(230 V) 55°C 12 A (400 V) 55 °C 12 A (500 V) 55 °C 10 A (690 V) NO 55°C 5 A
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 Power AC-3 (P_e):	(230 V) Three Phase 3 kW (400 V) Three Phase 5.5 kW (500 V) Three Phase 5.5 kW (690 V) Three Phase, NO 4 kW
Rated Breaking Capacity AC-3:	8 x I _e / AC-3
Rated Making Capacity AC-3:	10 x I _e / AC-3
Rated Short-time Withstand Current Low Voltage (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A
Rated Insulation Voltage (U_i):	750 V
Rated Impulse Withstand Voltage (U_{imp}):	Auxiliary Circuit 6 kV Main Circuit 6 kV
Maximum Electrical Switching Frequency:	(AC-1) 300 cycles per hour (AC-15) 360 cycles per hour (AC-3) 1200 cycles per hour (DC-1) 600 cycles per hour (DC-13) 360 cycles per hour (DC-3) 600 cycles per hour
Mechanical Durability:	Nr. Operations 10000000 cycle
Minimum Switching Capacity:	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Coil Operating Limits:	(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x U _c (at θ ≤ 55 °C)
Rated Control Circuit Voltage (U_c):	220 ... 230 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 AC-1 per Pole 0.7 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 Main Circuit:	Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1x 0.75 ... 4 mm ² Rigid 2x 0.75 ... 2.5 mm ²
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1x 0.75 ... 4 mm ² Rigid 2x 0.75 ... 2.5 mm ²

Connecting Capacity Control Circuit:	Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 0.75 ... 2.5 mm ²
Wire Stripping Length:	Auxiliary Circuit 9 mm Control Circuit 9 mm Main 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 Main Circuit 0.8 ... 1.0 N·m
Terminal Type:	Screw Terminals
Mini Contactor Type:	Mini Contactor
Product Name:	Mini Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
General Use Rating UL/CSA:	(600 V AC) 20 A
Horsepower Rating UL/CSA:	(115 V AC) Single Phase 0.5 Hp (200 V AC) Three Phase 3 Hp (220 ... 240 V AC) Three Phase 3 Hp (230 V AC) Single Phase 2 Hp (440 ... 480 V AC) Three Phase 7.5 Hp (550 ... 600 V AC) Three Phase 10 Hp
Connecting Capacity Main Circuit UL/CSA:	Stranded 1/2x 18-12 AWG
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
Full Load Amps Motor Use:	(115 V AC) Single Phase 9.8 A (200 V AC) Three Phase 11 A (220 ... 240 V AC) Three Phase 9.6 A (230 V AC) Single Phase 12 A (440 ... 480 V AC) Three Phase 11 A (550 ... 600 V AC) Three Phase 11 A

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

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:	1SAA971000-2001
CCC Certificate:	9AKK108472A3534
CQC Certificate:	CQC2019010304197131
Declaration of Conformity - CCC:	2020980304001602
Declaration of Conformity - CE:	1SAD101100-3201
Declaration of Conformity - UKCA:	1SAD201100-3201
RINA Certificate:	1SAA971001-0801
UL Certificate:	E191658-19880826

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:	4013614544101
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:	4013614544545

External Classifications and Standards

Object Classification Code:	Q
ETIM 7:	EC000066 - Power contactor, AC switching
ETIM 8:	EC000066 - Power contactor, AC switching
ETIM 9:	EC000066 - Power contactor, AC switching
eClass:	V11.0 : 27371003
UNSPSC:	39121529
E-Number (Finland):	3709657

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Mini Contactors > M Mini Contactors > MC2

