

PRODUCT-DETAILS

# MC1A310ATU

## MC1A310ATU Mini Contactor 50 Hz 380 ... 400 V AC - 3 NO - 0 NC - Schroef



### Algemene informatie

Type	MC1A310ATU
Artikelnummer	1SAL100215R9901
EAN	4013614541391
Omschrijving	MC1A310ATU Mini Contactor 50 Hz 380 ... 400 V AC - 3 NO - 0 NC - Schroef
Omschrijving	The MC1A310ATU 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 4 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. The product is suitable for wall or rail mounting.

### Ordering

Minimale bestelhoeveelheid	1 stuk
Nummer douanetarief	85365080

### Popular Downloads

Instructies en handleidingen	2CDC103061M6801
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product netto breedte	45 mm
Product netto hoogte	48 mm
Product netto diepte	56 mm
Product netto gewicht	0.17 kg

## Technical

Aantal polen	3
Type minicontactor	Mini Contactor
Nominaal bedrijfspvoltage	Auxiliary Circuit 690 V AC Auxiliary Circuit 440 V DC Main Circuit 690 V AC Main Circuit 440 V DC
Toegekende frequentie (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
Nominale impuls grensvoltage ( $U_{imp}$ )	Auxiliary Circuit 6 kV Main Circuit 6 kV
Nominaal isolatievoltage ( $U_i$ )	750 V
Aantal hoofdcontacten NC	0
Aantal hoofdcontacten NO	3
Nominale bedrijfsstroom 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
Nominale bedrijfsvermogen AC-3 ( $P_e$ )	(230 V) Three Phase 2.2 kW (400 V) Three Phase 4 kW (500 V) Three Phase 4 kW (690 V) Three Phase, NO 4 kW
Nominale kortstondige grensstroom ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A
Aantal hulpcontacten NC	0
Aantal hulpcontacten NO	1
Nominale bedrijfsstroom AC-15 ( $I_e$ )	(240 V) 6 A (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A
Nominale bedrijfsstroom 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
Conventionele vrije-lucht thermische stroom ( $I_{th}$ )	Auxiliary Circuit 10 A Main Circuit 20 A
Nominale stuurspanningskringspanning ( $U_c$ )	50 Hz 380 ... 400 V AC 60 Hz 440 V AC
Spoele operationele limieten	(acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55$ °C)
Beschermingsgraad	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20

Mechanische duurzaamheid	1000000 cycle
Minimale schakelcapaciteit	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
Maximale elektrische schakelfrequentie	(AC-1) 300 omwentelingen per uur (AC-15) 360 omwentelingen per uur (AC-3) 1200 omwentelingen per uur (DC-1) 600 omwentelingen per uur (DC-13) 360 omwentelingen per uur (DC-3) 600 omwentelingen per uur
Verbindingscapaciteit hoofdcircuit	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>
Verbindingscapaciteit hulp 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>
Verbindingscapaciteit controlecircuit	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>
Kabelstriplengte	Auxiliary Circuit 9 mm Control Circuit 9 mm Main Circuit 9 mm
Aanhaalmoment	Auxiliary Circuit 0.8 ... 1.0 N·m Control Circuit 0.8 N·m Main Circuit 0.8 ... 1.0 N·m
Aanbevolen schroevendraaier	Pozidriv 2
Montage op 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
Vermogensverlies	at Rated Operating Conditions AC-1 per Pole 0.7 W
Normen	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

## Technical UL/CSA

Maximale bedrijfsspanning UL/CSA	Main Circuit 600 V AC
Vollast amps motorgebruik	(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 10 A (440 ... 480 V AC) Three Phase 7.6 A (550 ... 600 V AC) Three Phase 6.1 A
Paardenkrachtklasse 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 1.5 Hp (440 ... 480 V AC) Three Phase 5 Hp (550 ... 600 V AC) Three Phase 5 Hp
Algemeen gebruik klasse UL/CSA	(600 V AC) 20 A
Contactklasse UL/CSA	A600 Q600
Verbindingscapaciteit hoofdcircuit UL/CSA	Stranded 1/2x 18-12 AWG

Verbindingscapaciteit hulpcircuït UL/CSA	Stranded 1/2x 18-12 AWG
Aanhaalmoment UL/CSA	Auxiliary Circuit 7 in-lb Control Circuit 7 in-lb Main Circuit 7 in-lb

## Environmental

Omgevingsluchttemperatuur	Werking -40 ... +70 °C Opslag -55 ... +80 °C
Maximale werkhoogte toegestaan	3000 m
Schokweerstand volgens IEC 60068-2-27	11 ms Pulse 25g
Weerstand tegen trillingen volgens IEC 60068-2-6	5g / 3 ... 150 Hz
RoHS-status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificates and Declarations

BV-certificaat	1SAA971000-0201
CB-certificaat	1SAA971000-2001
CQC-certificaat	CQC2019010304197131
Declaration of Conformity - CCC	2020980304001602
Conformiteitsverklaring - CE	1SAD101100-3201
Declaration of Conformity - UKCA	1SAD201100-3201
RINA-certificaat	1SAA971000-0801
UL-certificaat	E191658-19880826

## Container Information

Pakketniveau 1 Units	doos 1 stuk
Pakketniveau 1 Breedte	46 mm
Pakketniveau 1 Hoogte	58 mm
Pakketniveau 1 Lengte	49 mm
Pakketniveau 1 Brutogewicht	0.175 kg
Pakketniveau 1 EAN	4013614541391
Pakketniveau 2 Units	doos 20 stuk
Pakketniveau 2 Breedte	237 mm
Pakketniveau 2 Hoogte	120 mm
Pakketniveau 2 Lengte	102 mm
Pakketniveau 2 Brutogewicht	3.55 kg
Pakketniveau 2 EAN	4013614542053

## Classifications

Object classificatiecode	Q
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Magneetschakelaar
ETIM 7	EC000066 - Power contactor, AC switching

---

ETIM 8	EC000066 - Magneetschakelaar
eClass	V11.0 : 27371003
UNSPSC	39121529
E-Number (Finland)	3709431

---

---

## Categorieën

---

Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Minischakelaars

