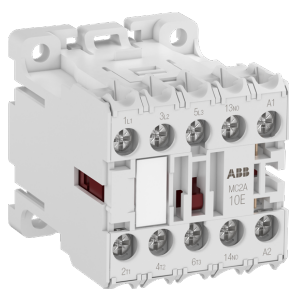


PRODUCT-DETAILS

# MC2A310ARJ

## MC2A310ARJ Mini Contactor 50 Hz 110 ... 115 V AC - 3 NO - 0 NC - Ring-Tongue Terminals



### Informations générales

|                              |                 |
|------------------------------|-----------------|
| Extension du type de produit | MC2A310ARJ      |
| Code de produit              | 1SAL103414R9902 |
| EAN                          | 4013614545696   |

Description courte MC2A310ARJ Mini Contactor 50 Hz 110 ... 115 V AC - 3 NO - 0 NC - Ring-Tongue Terminals

Description longue The MC2A310ARJ mini contactor is a dimension optimized 3 pole contactor with 1 NO auxiliary contact and special screw terminals for a connection with ring tongue ferrules. 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 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.

### Commande

|                  |          |
|------------------|----------|
| Quantité minimum | 1 pièce  |
| Code douanier    | 85365080 |

### Downloads Préférés

|                         |                 |
|-------------------------|-----------------|
| Instructions et manuels | 2CDC103061M6801 |
| CAD Dimensional         | 2CDC001079B0201 |

## Drawing

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**Dimensions**


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|                      |         |
|----------------------|---------|
| Produit Largeur Net  | 45 mm   |
| Produit Hauteur Net  | 48 mm   |
| Produit Longueur Net | 56 mm   |
| Poids net            | 0.17 kg |

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**Technique**


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|   |   |
|---|---|
| Nombre de pôles   | 3   |
| Mini Contactor Type                                     | Mini Contactor  |
| Tension   | Circuit auxiliaire 690 V AC<br>Circuit auxiliaire 440 V DC<br>Circuit principal 690 V AC<br>Circuit principal 440 V DC  |
| Fréquence assignée (f)                                  | Circuit auxiliaire 50 Hz<br>Circuit auxiliaire 60 Hz<br>Circuit auxiliaire DC<br>Circuit de commande 50 Hz<br>Circuit de commande 60 Hz<br>Circuit principal 50 Hz<br>Circuit principal 60 Hz<br>Circuit principal DC |
| Tension assignée de tenue aux chocs ( $U_{imp}$ )       | Circuit auxiliaire 6 kV<br>Circuit principal 6 kV   |
| Tension assignée d'isolement ( $U_i$ )                  | 750 V   |
| Number of Main Contacts NC                              | 0   |
| Number of Main Contacts NO                              | 3   |
| Courant assignée d'emploi AC-1 ( $I_e$ )                | (690 V) 55 °C 20 A<br>(690 V) 70 °C 16 A<br>(230 V) 55 °C 20 A<br>(230 V) 70 °C 16 A<br>(400 V) 55 °C 20 A<br>(400 V) 70 °C 16 A<br>(500 V) 55 °C 20 A<br>(500 V) 70 °C 16 A  |
| Puissance assignée d'emploi AC-3 ( $P_e$ )              | (230 V) Three Phase 3 kW<br>(400 V) Three Phase 5.5 kW<br>(500 V) Three Phase 5.5 kW<br>(690 V) Three Phase, NO 4 kW  |
| Courant assigné de courte durée admissible ( $I_{cw}$ ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 96 A   |
| Number of Auxiliary Contacts NC                         | 0   |
| Number of Auxiliary Contacts NO                         | 1   |
| Courant assignée d'emploi AC-15 ( $I_e$ )               | (240 V) 6 A<br>(400 V) 4 A<br>(500 V) 2.5 A<br>(690 V) 1.5 A  |
| Courant assignée d'                                     | (24 V) 5 A  |

|  |   |
|--|---|
| emploi DC-13 ( $I_e$ )                                     | (48 V) 2.5 A<br>(125 V) 0.55 A<br>(250 V) 0.3 A<br>(440 V) 0.15 A   |
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | Auxiliary Circuit 10 A<br>Main Circuit 20 A   |
| Rated Control Circuit Voltage ( $U_c$ )                    | 50 Hz 110 ... 115 V AC<br>60 Hz 110 ... 120 V AC  |
| Plage d'utilisation de la bobine selon                     | (acc. to IEC 60947-4-1) for AC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55^\circ\text{C}$ )   |
| Indice de protection                                       | Auxiliary Circuit Terminals IP20<br>Control Circuit Terminals IP20<br>Main Circuit Terminals IP20   |
| Durabilite mecanique                                       | 10000000 cycle  |
| Minimum Switching Capacity                                 | Auxiliary Circuit 17 V<br>Auxiliary Circuit 5 mA  |
| Maximum Electrical Switching Frequency                     | (AC-1) 300 cycles per hour<br>(AC-15) 360 cycles per hour<br>(AC-3) 1200 cycles per hour<br>(DC-1) 600 cycles per hour<br>(DC-13) 360 cycles per hour<br>(DC-3) 600 cycles per hour |
| Connecting Capacity Main Circuit                           | Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>   |
| Connecting Capacity Auxiliary Circuit                      | Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>   |
| Connecting Capacity Control Circuit                        | Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>   |
| Wire Stripping Length                                      | Auxiliary Circuit 9 mm<br>Control Circuit 9 mm<br>Main Circuit 9 mm   |
| Couple de serrage  | Auxiliary Circuit 0.8 ... 1.0 N·m<br>Control Circuit 0.8 N·m<br>Main Circuit 0.8 ... 1.0 N·m  |
| Recommended Screw Driver                                   | Pozidriv 2  |
| Montage sur rail DIN                                       | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  |
| Power Loss   | at Rated Operating Conditions AC-1 per Pole 0.7 W   |
| Normes et standards  | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-4-1<br>UL 60947-5-1  |

## Technique UL/CSA

|                                  |  |
|----------------------------------|--|
| Maximum Operating Voltage UL/CSA | Circuit principal 600 V AC   |
| Full Load Amps Motor Use         | (115 V AC) Single Phase 9.8 A<br>(200 V AC) Three Phase 11 A<br>(220 ... 240 V AC) Three Phase 9.6 A<br>(230 V AC) Single Phase 12 A<br>(440 ... 480 V AC) Three Phase 11 A<br>(550 ... 600 V AC) Three Phase 11 A |
| Puissance nominale               | (115 V AC) Single Phase 0.5 Hp   |

|   |   |
|---|---|
| UL/CSA  | (200 V AC) Three Phase 3 Hp<br>(220 ... 240 V AC) Three Phase 3 Hp<br>(230 V AC) Single Phase 2 Hp<br>(440 ... 480 V AC) Three Phase 7.5 Hp<br>(550 ... 600 V AC) Three Phase 10 Hp |
| General Use Rating<br>UL/CSA                    | (600 V AC) 20 A   |
| Contact Rating UL/CSA                           | A600<br>Q600  |
| Connecting Capacity Main<br>Circuit UL/CSA      | Stranded 1/2x 18-12 AWG   |
| Connecting Capacity<br>Auxiliary Circuit UL/CSA | Stranded 1/2x 18-12 AWG   |
| Tightening Torque<br>UL/CSA                     | Auxiliary Circuit 7 in-lb<br>Control Circuit 7 in-lb<br>Main Circuit 7 in-lb  |

## Environnement

|   |  |
|---|--|
| Température de l'air<br>ambiant                     | Operation -40 ... +70 °C<br>Storage -55 ... +80 °C                     |
| Altitude de<br>fonctionnement maximale<br>autorisée | 3000 m   |
| Résistance aux chocs<br>selon CEI 60068-2-27        | 11 ms Pulse 25g  |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6   | 5g / 3 ... 150 Hz  |
| Statut RoHS   | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

## Certificats et Déclarations (Numéro de document)

|                                     |                     |
|-------------------------------------|---------------------|
| Certificat BV                       | 1SAA971000-0201     |
| CB Certificate                      | 1SAA971000-2001     |
| CQC Certificate                     | CQC2019010304197131 |
| Declaration of Conformity<br>- CCC  | 2020980304001602    |
| Déclaration de Conformité<br>- CE   | 1SAD101100-3201     |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3201     |
| Certificat RINA                     | 1SAA971001-0801     |
| Certificat UL                       | E191658-19880826    |

## Emballage

|                               |             |
|-------------------------------|-------------|
| Emballage Niveau 1<br>Unités  | box 1 pièce |
| Emballage Niveau 1<br>Largeur | 46 mm       |
| Emballage Niveau 1<br>Hauteur | 58 mm       |
| Emballage Niveau 1            | 49 mm       |

|                             |               |
|-----------------------------|---------------|
| Longueur                    |               |
| Emballage Niveau 1 Poids    | 0.175 kg      |
| Emballage Niveau 1 EAN      | 4013614545696 |
| Emballage Niveau 2 Unités   | box 20 pièce  |
| Emballage Niveau 2 Largeur  | 237 mm        |
| Emballage Niveau 2 Hauteur  | 120 mm        |
| Emballage Niveau 2 Longueur | 102 mm        |
| Emballage Niveau 2 Poids    | 3.55 kg       |
| Emballage Niveau 2 EAN      | 4013614545757 |

## Classifications

|                                |   |
|--------------------------------|---|
| Code de classification d'objet | Q   |
| ETIM 5                         | EC000066 - Magnet contactor, AC-switching                                 |
| ETIM 6                         | EC000066 - contacteur de puissance pour commutation de courant alternatif |
| ETIM 7                         | EC000066 - Power contactor, AC switching                                  |
| ETIM 8                         | EC000066 - Power contactor, AC switching                                  |
| eClass                         | V11.0 : 27371003  |
| UNSPSC                         | 39121529  |
| E-Number (Finland)             | 3709637   |

## Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Contacteurs → Mini contacteurs

