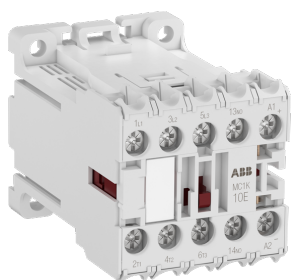


PRODUCT-DETAILS

# MC1K310ARD

## MC1K310ARD Mini Contactor 24 V DC - 3 NO - 0 NC - Ring-Tongue Terminals



### Informations générales

Extension du type de produit	MC1K310ARD
Code de produit	1SAL103446R9901
EAN	4013614543975
Description courte	MC1K310ARD Mini Contactor 24 V DC - 3 NO - 0 NC - Ring-Tongue Terminals
Description longue	The MC1K310ARD 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 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. Thanks to the very low energy consumption coil, this product can be directly controlled by a PLC. 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 Drawing	2CDC001079B0201

## Dimensions

Produit Largeur Net	45 mm
Produit Hauteur Net	48 mm
Produit Longueur Net	68 mm
Poids net	0.25 kg

## Technique

Nombre de pôles	3
Mini Contactor Type	Mini Contactor
Tension	Circuit auxiliaire 690 V AC Circuit auxiliaire 440 V DC Circuit principal 690 V AC Circuit principal 440 V DC
Fréquence assignée (f)	Circuit auxiliaire 50 Hz Circuit auxiliaire 60 Hz Circuit auxiliaire DC Circuit de commande DC Circuit principal 50 Hz Circuit principal 60 Hz Circuit principal DC
Tension assignée de tenue aux chocs ( $U_{imp}$ )	Circuit auxiliaire 6 kV 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 (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
Puissance assignée d'emploi 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
Courant assigné de courte durée admissible ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 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 (400 V) 4 A (500 V) 2.5 A (690 V) 1.5 A
Courant assignée d'emploi 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
Courant thermique conventionnel à l'air libre ( $I_{th}$ )	Auxiliary Circuit 10 A Main Circuit 20 A
Rated Control Circuit Voltage ( $U_c$ )	24 V DC
Plage d'utilisation de la bobine selon	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55$ °C)
Indice de protection	Auxiliary Circuit Terminals IP20

	Control Circuit Terminals IP20 Main Circuit Terminals IP20
Durabilite mecanique	10000000 cycle
Minimum Switching Capacity	Auxiliary Circuit 17 V Auxiliary Circuit 5 mA
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
Connecting Capacity Main Circuit	Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> 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> 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> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
Wire Stripping Length	Auxiliary Circuit 9 mm Control Circuit 9 mm Main Circuit 9 mm
Couple de serrage	Auxiliary Circuit 0.8 ... 1.0 N·m Control Circuit 0.8 N·m 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 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 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 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 (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
Puissance nominale 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
General Use Rating UL/CSA	(600 V AC) 20 A
Contact Rating UL/CSA	A600 Q600
Connecting Capacity Main Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 7 in·lb Control Circuit 7 in·lb Main Circuit 7 in·lb

## Environnement

Température de l'air ambiant	Operation -40 ... +70 °C Storage -55 ... +80 °C
Altitude de fonctionnement maximale autorisée	3000 m
Résistance aux chocs selon CEI 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations 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)

CB Certificate	1SAA971000-2001
CQC Certificate	CQC2019010304197131
Declaration of Conformity - CCC	2020980304001602
Déclaration de Conformité - CE	1SAD101100-3201
Declaration of Conformity - UKCA	1SAD201100-3201
Certificat RINA	1SAA971000-0801
Certificat UL	E191658-19880826

## Emballage

Emballage Niveau 1 Unités	box 1 pièce
Emballage Niveau 1 Largeur	46 mm
Emballage Niveau 1 Hauteur	70 mm
Emballage Niveau 1 Longueur	49 mm
Emballage Niveau 1 Poids	0.255 kg
Emballage Niveau 1 EAN	4013614543975
Emballage Niveau 2 Unités	box 10 pièce
Emballage Niveau 2 Largeur	243 mm
Emballage Niveau 2 Hauteur	80 mm
Emballage Niveau 2 Longueur	106 mm
Emballage Niveau 2 Poids	2.61 kg
Emballage Niveau 2 EAN	4013614544033

## 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

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## Catégories

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

