

PRODUCT-DETAILS

# VB7A-40-00-02

## VB7A-40-00-02 Mini Reversing Contactor 42 V AC - 4 NO - 0 NC - Screw Terminals



### Informations générales

|                              |   |
|------------------------------|---|
| Extension du type de produit | VB7A-40-00-02   |
| Code de produit              | GJL1311911R0002   |
| EAN                          | 4013614480423   |
| Description courte           | VB7A-40-00-02 Mini Reversing Contactor 42 V AC - 4 NO - 0 NC - Screw Terminals  |
| Description longue           | The VB7A-40-00 mini reversing contactor is a compact 4 pole contactor with screw terminals and mechanical interlock and safety blocking. They are ideally suited for applications where reliability is a must and space is at a premium. Mini reversing contactors are used in residential buildings, commercial buildings and industrial applications for the control of three-phase motor loads up to 5.5 kW (AC-3). Further features are the silent coil, a switch position indication and the integrated possibility for rail or wall mounting. |

### Commande

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

### Downloads Préférés

|  |                 |
|--|-----------------|
| Fiche produit, informations techniques | 1SBC100214C0201 |
| CAD Dimensional                        | 2CDC001079B0201 |

Drawing

Schéma dimensionnel

GJL1200447F0001

## Dimensions

|                      |          |
|----------------------|----------|
| Produit Largeur Net  | 96.2 mm  |
| Produit Hauteur Net  | 57.5 mm  |
| Produit Longueur Net | 46.7 mm  |
| Poids net            | 0.355 kg |

## Technique

|  |  |
|--|--|
| Nombre de pôles  | 4  |
| Mini Contactor Type  | Mini Contactor   |
| Tension  | Circuit principal 690 V AC<br>Circuit principal 220 V DC   |
| Fréquence assignée (f)                                     | Circuit de commande 50 Hz<br>Circuit de commande 60 Hz<br>Circuit de commande 400 Hz<br>Circuit principal 60 Hz<br>Circuit principal 50 Hz<br>Circuit principal DC |
| Tension assignée de tenue aux chocs ( $U_{imp}$ )          | Circuit principal 6 kV   |
| Tension assignée d'isolement ( $U_i$ )                     | 690 V<br>acc. to UL/CSA 600 V  |
| Number of Main Contacts NC                                 | 0  |
| Number of Main Contacts NO                                 | 4  |
| Courant assignée d'emploi AC-1 ( $I_e$ )                   | (220 / 240 V) 40 °C 20 A<br>(220 / 240 V) 55 °C 16 A<br>(380 / 440 V) 40 °C 20 A<br>(380 / 440 V) 55 °C 16 A<br>(690 V) 40 °C 6 A<br>(690 V) 55 °C 6 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 3 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                            | 0  |
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | Main Circuit 20 A  |
| Rated Control Circuit Voltage ( $U_c$ )                    | 42 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 $\theta \leq 55$ °C)  |
| Indice de protection                                       | Control Circuit Terminals IP20   |

| Main Circuit Terminals IP20            |   |
|--|---|
| Degré de pollution                     | 3   |
| Durabilité mécanique                   | 10000000 cycle  |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour<br>(AC-3) 600 cycles per hour<br>(DC-1) 600 cycles per hour<br>(DC-3) 600 cycles per hour  |
| Connecting Capacity Main Circuit       | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Connecting Capacity Control Circuit    | Flexible with Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 4 mm <sup>2</sup> |
| Wire Stripping Length                  | Control Circuit 9 mm<br>Main Circuit 9 mm   |
| Couple de serrage                      | Control Circuit 0.8 ... 1.1 N·m<br>Main Circuit 0.8 ... 1.1 N·m   |
| Recommended Screw Driver               | M3<br>Pozidriv 1  |
| 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 1.4 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  |

## Technique UL/CSA

|   |  |
|---|--|
| Maximum Operating Voltage UL/CSA        | Circuit principal 600 V AC   |
| Full Load Amps Motor Use                | (115 V AC) Single Phase 13.8 A<br>(200 V AC) Three Phase 7.8 A<br>(220 ... 240 V AC) Three Phase 9.6 A<br>(230 V AC) Single Phase 10 A<br>(440 ... 480 V AC) Three Phase 7.6 A<br>(550 ... 600 V AC) Three Phase 6.1 A |
| Puissance nominale UL/CSA               | (115 V AC) Single Phase 0.75 Hp<br>(200 V AC) Three Phase 2 Hp<br>(220 ... 240 V AC) Three Phase 3 Hp<br>(230 V AC) Single Phase 1.5 Hp<br>(440 ... 480 V AC) Three Phase 5 Hp<br>(550 ... 600 V AC) Three Phase 5 Hp  |
| General Use Rating UL/CSA               | (600 V AC) 16 A  |
| Connecting Capacity Main Circuit UL/CSA | Stranded 1/2x 22-10 AWG  |
| Tightening Torque UL/CSA                | Control Circuit 7 in·lb<br>Main Circuit 7 in·lb  |

## Environnement

|                              |  |
|------------------------------|--|
| Température de l'air ambiant | Operation -25 ... +55 °C<br>Storage -40 ... +80 °C |
|------------------------------|--|

|   |  |
|---|--|
| Altitude de<br>fonctionnement maximale<br>autorisée | 2000 m   |
| Résistance aux chocs<br>selon CEI 60068-2-27        | 11 ms Pulse 15g  |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6   | 5g / 5 ... 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                      | 1SAA938000-2002     |
| CQC Certificate                     | CQC2003010304064033 |
| Declaration of Conformity<br>- CCC  | 2020980304001854    |
| Déclaration de Conformité<br>- CE   | 1SAD101100-3101     |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3101     |
| DNV GL Certificate                  | 1SAA938000-0306     |
| EAC Certificate                     | 1SAA920000-2702     |
| KC Certificate                      | 1SAA938000-1501     |
| Certificat RMRS                     | 1SAA938000-0704     |
| Certificat UL                       | E191658-19881208    |

## Emballage

|                                |               |
|--------------------------------|---------------|
| Emballage Niveau 1<br>Unités   | 5 pièce       |
| Emballage Niveau 1<br>Largeur  | 115 mm        |
| Emballage Niveau 1<br>Hauteur  | 54 mm         |
| Emballage Niveau 1<br>Longueur | 280 mm        |
| Emballage Niveau 1 Poids       | 1.845 kg      |
| Emballage Niveau 1 EAN         | 4013614480430 |

## Classifications

|                                   |   |
|-----------------------------------|---|
| Code de classification<br>d'objet | Q   |
| ETIM 4                            | EC000066 - Magnet contactor, AC-switching |
| ETIM 5                            | EC000010 - Starter combination            |
| ETIM 6                            | EC000010 - combinaison de contacteur      |
| ETIM 7                            | EC000010 - Combination of contactors      |
| ETIM 8                            | EC000010 - Combination of contactors      |
| eClass                            | V11.0 : 27371009                          |
| UNSPSC                            | 39121529                                  |

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## Catégories

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

