

## PRODUCT-DETAILS

# VBC7A-30-10-04

## VBC7A-30-10-04 Mini Reversing Contactor 110 ... 125 V DC - 3 NO - 0 NC - Screw Terminals



### Informations générales

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extension du type de produit | VBC7A-30-10-04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Code de produit              | GJL1313911R0104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EAN                          | 4013614189852                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description courte           | VBC7A-30-10-04 Mini Reversing Contactor 110 ... 125 V DC - 3 NO - 0 NC - Screw Terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Description longue           | The VBC7A-30-10 mini reversing contactor is a compact 3 pole contactor with 1 auxiliary contact, 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 noiseless and hum-free 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 | 1SBC100214C0202 |
| Instructions et manuels                | 2CDC102046M6801 |
| 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                                            | 3                                                                                                                                                                                  |
| Tension                                                    | Circuit auxiliaire 690 V AC<br>Circuit auxiliaire 250 V DC<br>Circuit principal 690 V AC<br>Circuit principal 220 V DC                                                             |
| Fréquence assignée (f)                                     | 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                                 | 3                                                                                                                                                                                  |
| 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                            | 1                                                                                                                                                                                  |
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | Main Circuit 20 A                                                                                                                                                                  |
| Rated Control Circuit Voltage ( $U_c$ )                    | 110 ... 125 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                                       | Main Circuit Terminals IP20                                                                                                                                                        |
| Degré de pollution                                         | 3                                                                                                                                                                                  |
| Durabilité mécanique                                       | 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) 600 cycles per hour<br>(AC-3) 600 cycles per hour<br>(DC-1) 600 cycles per hour<br>(DC-13) 600 cycles per hour<br>(DC-3) 600 cycles per hour |

|                                       |                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connecting Capacity Main Circuit      | Flexible with Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm² |
| Connecting Capacity Control Circuit   | Flexible with Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm²<br>Flexible 1/2x 1 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm² |
| Wire Stripping Length                 | Auxiliary 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                                                                                                                                                                                                        |
| Contact Rating UL/CSA                        | A600                                                                                                                                                                                                                   |
| Connecting Capacity Main Circuit UL/CSA      | Stranded 1/2x 22-10 AWG                                                                                                                                                                                                |
| Connecting Capacity Auxiliary Circuit UL/CSA | Stranded 1/2x 22-10 AWG                                                                                                                                                                                                |
| Tightening Torque UL/CSA                     | Auxiliary Circuit 7 in·lb<br>Control Circuit 7 in·lb<br>Main Circuit 7 in·lb                                                                                                                                           |

## Environnement

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| Température de l'air ambiant                   | Operation -20 ... +55 °C<br>Storage -40 ... +80 °C |
| Altitude de fonctionnement maximale autorisée  | 2000 m                                             |
| Résistance aux chocs selon CEI 60068-2-27      | 11 ms Pulse 15g                                    |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g / 5 ... 150 Hz                                  |

## 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         | 4013614419713 |

## 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                                  |

## Catégories

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

