

PRODUCT-DETAILS

# BC6-30-01-F-1.4-81

## BC6-30-01-F-1.4-81 Mini Contactor 24 V DC - 3 NO - 0 NC - Flat-Pin Connections



### Informations générales

|                              |  |
|------------------------------|--|
| Extension du type de produit | BC6-30-01-F-1.4-81   |
| Code de produit              | GJL1213003R8011  |
| EAN                          | 4013614053245  |
| Description courte           | BC6-30-01-F-1.4-81 Mini Contactor 24 V DC - 3 NO - 0 NC - Flat-Pin Connections   |
| Description longue           | The BC6-30-01-F mini contactor is a compact 3 pole contactor with 1 auxiliary contact and flat pin connector. They are ideally suited for applications where reliability is a must and space is at a premium. 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. Due to the low coil consumption, this device can be directly controlled by a PLC. 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                | 2CDC102047M6801 |
| CAD Dimensional                        | 2CDC001079B0201 |

## Drawing

Schéma dimensionnel

GJL1200437F0001

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**Dimensions**


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|                      |         |
|----------------------|---------|
| Produit Largeur Net  | 52.5 mm |
| Produit Hauteur Net  | 57.5 mm |
| Produit Longueur Net | 46.7 mm |
| Poids net            | 0.17 kg |

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**Technique**


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| Nombre de pôles  | 3  |
| Mini Contactor Type  | Interface Mini Contactor   |
| 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 de commande DC<br>Circuit principal 60 Hz<br>Circuit principal 50 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 ( $U_i$ )                     | 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 2.2 kW<br>(400 V) Three Phase 4 kW<br>(500 V) Three Phase 4 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 64 A  |
| Number of Auxiliary Contacts NC                            | 1  |
| Number of Auxiliary Contacts NO                            | 0  |
| Courant assignée d'emploi AC-15 ( $I_e$ )                  | (24 V) 4 A<br>(120 V) 4 A<br>(500 V) 2 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A   |
| Courant assignée d'emploi DC-13 ( $I_e$ )                  | (24 V) 2.5 A<br>(110 V) 0.7 A<br>(220 / 240 V) 0.4 A   |
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | 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   |

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|  | 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) 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 |
| 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 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   |
| Remarques                              | No CA6 or CAF6 mountable   |

## Technique UL/CSA

|                                  |  |
|----------------------------------|--|
| Maximum Operating Voltage UL/CSA | Circuit principal 600 V AC   |
| Full Load Amps Motor Use         | (115 V AC) Single Phase 5.8 A<br>(200 V AC) Three Phase 4.8 A<br>(220 ... 240 V AC) Three Phase 6.8 A<br>(230 V AC) Single Phase 4.9 A<br>(440 ... 480 V AC) Three Phase 4.8 A<br>(550 ... 600 V AC) Three Phase 1.7 A |
| Puissance nominale UL/CSA        | (115 V AC) Single Phase 0.25 Hp<br>(200 V AC) Three Phase 1 Hp<br>(220 ... 240 V AC) Three Phase 2 Hp<br>(230 V AC) Single Phase 0.5 Hp<br>(440 ... 480 V AC) Three Phase 3 Hp<br>(550 ... 600 V AC) Three Phase 1 Hp  |
| General Use Rating UL/CSA        | (300 V AC) 12 A  |
| Contact Rating UL/CSA            | A600   |

## Environnement

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|--|--|
| 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  |
| Statut RoHS                                    | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

## Certificats et Déclarations (Numéro de document)

|                                 |                     |
|---------------------------------|---------------------|
| Certificat BV                   | 1SAA920000-0204     |
| CB Certificate                  | 1SAA938000-2002     |
| CQC Certificate                 | CQC2003010304064033 |
| cURus Certificate               | cUL_E191658         |
| Declaration of Conformity - 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 LR                       | 1SAA938000-0504 |
| Certificat RMRS                     | 1SAA938000-0704 |

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## Emballage

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|--------------------------------|---------------|
| Emballage Niveau 1<br>Unités   | 10 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       | 1.77 kg       |
| Emballage Niveau 1 EAN         | 4013614414985 |

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## Classifications

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|---|---|
| Code de classification<br>d'objet           | Q   |
| ETIM 4                                      | EC000066 - Magnet contactor, AC-switching                                 |
| 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  |
| Code de catégorie<br>granulaire IDEA (IGCC) | 4763 >> Power contactor, DC switching                                     |

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## Catégories

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

