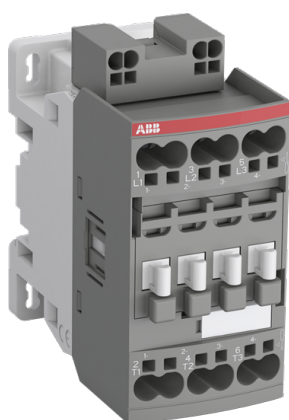


PRODUCT-DETAILS

# AF30-30-00K-14

## AF30-30-00K-14 250-500V50/60HZ-DC

### Contacteur



#### Informations générales

|                              |  |
|------------------------------|--|
| Extension du type de produit | AF30-30-00K-14   |
| Code de produit              | 1SBL277005R1400  |
| EAN                          | 3471523155145  |
| Description courte           | AF30-30-00K-14 250-500V50/60HZ-DC Contacteur   |
| Description longue           | The AF30-30-00K-14 is a 3 pole - 690 V IEC or 600 UL contactor with push-in spring terminals, controlling motors up to 15 kW / 400 V AC (AC-3) or 20 hp / 480 V UL and switching power circuits up to 50 A (AC-1) or 50 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. |

#### Commande

|                  |          |
|------------------|----------|
| Quantité minimum | 1 pièce  |
| Code douanier    | 85364900 |

#### Downloads Préférés

|                         |                 |
|-------------------------|-----------------|
| Instructions et manuels | 1SBC101054M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

## Dimensions

|                      |         |
|----------------------|---------|
| Produit Largeur Net  | 45 mm   |
| Produit Longueur Net | 86 mm   |
| Produit Hauteur Net  | 92.3 mm |
| Poids net            | 0.37 kg |

## Technique

|  |   |
|--|---|
| Number of Main Contacts<br>NO                                    | 3   |
| Number of Main Contacts<br>NC                                    | 0   |
| Number of Auxiliary<br>Contacts NO                               | 0   |
| Number of Auxiliary<br>Contacts NC                               | 0   |
| Normes et standards  | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1   |
| Tension  | Circuit principal 690 V   |
| Fréquence assignée (f)   | Circuit de commande 50 / 60 Hz<br>Circuit principal 50 / 60 Hz  |
| Courant thermique<br>conventionnel à l'air libre<br>( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40$ °C 50 A  |
| Courant assignée<br>d'emploi AC-1 ( $I_e$ )                      | (690 V) 40 °C 50 A<br>(690 V) 60 °C 42 A<br>(690 V) 70 °C 37 A  |
| Courant assignée<br>d'emploi AC-3 ( $I_e$ )                      | (415 V) 60 °C 32 A<br>(440 V) 60 °C 32 A<br>(500 V) 60 °C 28 A<br>(690 V) 60 °C 21 A<br>(380 / 400 V) 60 °C 32 A<br>(220 / 230 / 240 V) 60 °C 33 A  |
| Courant assignée<br>d'emploi AC-3e ( $I_e$ )                     | (415 V) 60 °C 32 A<br>(440 V) 60 °C 32 A<br>(500 V) 60 °C 28 A<br>(690 V) 60 °C 21 A<br>(380 / 400 V) 60 °C 32 A<br>(220 / 230 / 240 V) 60 °C 33 A  |
| Puissance assignée<br>d'emploi AC-3 ( $P_e$ )                    | (415 V) 15 kW<br>(440 V) 18.5 kW<br>(500 V) 18.5 kW<br>(690 V) 18.5 kW<br>(380 / 400 V) 15 kW<br>(220 / 230 / 240 V) 9 kW   |
| Puissance assignée<br>d'emploi AC-3e ( $P_e$ )                   | (415 V) 15 kW<br>(440 V) 18.5 kW<br>(500 V) 18.5 kW<br>(690 V) 18.5 kW<br>(380 / 400 V) 15 kW<br>(220 / 230 / 240 V) 9 kW   |
| Courant assigné de courte<br>durée admissible ( $I_{cw}$ )       | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A |
| Maximum Breaking<br>Capacity                                     | cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 500 A<br>cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 200 A  |
| Maximum Electrical<br>Switching Frequency                        | (AC-1) 600 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 1200 cycles per hour  |
| Courant assignée<br>d'emploi DC-1 ( $I_e$ )                      | (110 V) 2 Poles in Series, 40 °C 50 A<br>(110 V) 2 Poles in Series, 60 °C 42 A<br>(110 V) 2 Poles in Series, 70 °C 37 A<br>(110 V) 3 Poles in Series, 40 °C 50 A<br>(110 V) 3 Poles in Series, 60 °C 42 A   |

|   |  |
|---|--|
|   | (110 V) 3 Poles in Series, 70 °C 37 A<br>(220 V) 3 Poles in Series, 40 °C 50 A<br>(220 V) 3 Poles in Series, 60 °C 42 A<br>(220 V) 3 Poles in Series, 70 °C 37 A<br>(72 V) 1-Pole, 40 °C 50 A<br>(72 V) 1-Pole, 60 °C 42 A<br>(72 V) 1-Pole, 70 °C 37 A<br>(72 V) 2 Poles in Series, 40 °C 50 A<br>(72 V) 2 Poles in Series, 60 °C 42 A<br>(72 V) 2 Poles in Series, 70 °C 37 A<br>(72 V) 3 Poles in Series, 40 °C 50 A<br>(72 V) 3 Poles in Series, 60 °C 42 A<br>(72 V) 3 Poles in Series, 70 °C 37 A  |
| Courant assignée d'emploi DC-3 (I <sub>e</sub> )        | (110 V) 2 Poles in Series, 40 °C 50 A<br>(110 V) 2 Poles in Series, 60 °C 42 A<br>(110 V) 2 Poles in Series, 70 °C 37 A<br>(110 V) 3 Poles in Series, 40 °C 50 A<br>(110 V) 3 Poles in Series, 60 °C 42 A<br>(110 V) 3 Poles in Series, 70 °C 37 A<br>(220 V) 3 Poles in Series, 40 °C 50 A<br>(220 V) 3 Poles in Series, 60 °C 42 A<br>(220 V) 3 Poles in Series, 70 °C 37 A<br>(72 V) 1-Pole, 40 °C 50 A<br>(72 V) 1-Pole, 60 °C 42 A<br>(72 V) 1-Pole, 70 °C 37 A<br>(72 V) 2 Poles in Series, 40 °C 50 A<br>(72 V) 2 Poles in Series, 60 °C 42 A<br>(72 V) 2 Poles in Series, 70 °C 37 A<br>(72 V) 3 Poles in Series, 40 °C 50 A<br>(72 V) 3 Poles in Series, 60 °C 42 A<br>(72 V) 3 Poles in Series, 70 °C 37 A |
| Courant assignée d'emploi DC-5 (I <sub>e</sub> )        | (110 V) 2 Poles in Series, 40 °C 50 A<br>(110 V) 2 Poles in Series, 60 °C 42 A<br>(110 V) 2 Poles in Series, 70 °C 37 A<br>(110 V) 3 Poles in Series, 40 °C 50 A<br>(110 V) 3 Poles in Series, 60 °C 42 A<br>(110 V) 3 Poles in Series, 70 °C 37 A<br>(220 V) 3 Poles in Series, 40 °C 25 A<br>(220 V) 3 Poles in Series, 60 °C 25 A<br>(220 V) 3 Poles in Series, 70 °C 25 A<br>(72 V) 1-Pole, 40 °C 25 A<br>(72 V) 1-Pole, 60 °C 25 A<br>(72 V) 1-Pole, 70 °C 25 A<br>(72 V) 2 Poles in Series, 40 °C 50 A<br>(72 V) 2 Poles in Series, 60 °C 42 A<br>(72 V) 2 Poles in Series, 70 °C 37 A<br>(72 V) 3 Poles in Series, 40 °C 50 A<br>(72 V) 3 Poles in Series, 60 °C 42 A<br>(72 V) 3 Poles in Series, 70 °C 37 A |
| Tension assignée d'isolement (U <sub>i</sub> )          | acc. to IEC 60947-4-1 690 V<br>acc. to UL/CSA 600 V  |
| Tension assignée de tenue aux chocs (U <sub>imp</sub> ) | 6 kV   |
| Maximum Mechanical Switching Frequency                  | 3600 cycles per hour   |
| Rated Control Circuit Voltage (U <sub>c</sub> )         | 50 Hz 250 ... 500 V<br>60 Hz 250 ... 500 V<br>DC Operation 250 ... 500 V   |
| Durée de fonctionnement nominale                        | Entre la mise hors tension de la bobine et la fermeture du contact NC (normally closed) 13 ... 98 ms<br>Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 11 ... 95 ms<br>Entre la mise sous tension de la bobine et l'ouverture du contact NC 38 ... 90 ms<br>Entre la mise sous tension de la bobine et la fermeture du contact NO 40 ... 95 ms   |
| 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   |
| Mounting by Screws (not supplied)                       | 2 x M4 screws placed diagonally  |
| Connecting Capacity Main Circuit                        | Flexible with Ferrule 1/2x 1 ... 6 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 1 ... 6 mm <sup>2</sup><br>Flexible 1/2x 1 ... 6 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 4 ... 10 mm <sup>2</sup>  |
| Connecting Capacity                                     | Flexible with Ferrule 1/2x 0.5 ... 2.5 mm <sup>2</sup>   |

|                       |   |
|-----------------------|---|
| Control Circuit       | Flexible with Insulated Ferrule 1/2x 0.5 ... 1.5 mm <sup>2</sup><br>Flexible 1/2x 0.5 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup> |
| Wire Stripping Length | Control Circuit 10 mm<br>Main Circuit 14 mm   |
| Indice de protection  | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20  |
| Type de borne         | Push-in Spring Terminals  |

## Technique UL/CSA

|  |  |
|--|--|
| Maximum Operating Voltage UL/CSA           | Circuit principal 600 V  |
| General Use Rating UL/CSA                  | (600 V AC) 45 A  |
| Puissance nominale UL/CSA                  | (120 V AC) Single Phase 2 hp<br>(200 ... 208 V AC) Three Phase 10 hp<br>(220 ... 240 V AC) Three Phase 10 hp<br>(240 V AC) Single Phase 5 hp<br>(440 ... 480 V AC) Three Phase 20 hp<br>(550 ... 600 V AC) Three Phase 25 hp |
| Connecting Capacity Main Circuit UL/CSA    | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-8 AWG   |
| Connecting Capacity Control Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG   |

## Environnement

|  |   |
|--|---|
| Température de l'air ambiant                   | Close to Contactor without Thermal O/L Relay -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
| Climatic Withstand                             | Category B according to IEC 60947-1 Annex Q   |
| Altitude de fonctionnement maximale autorisée  | Without Derating 3000 m   |
| REACH Declaration                              | 2CMT2021-006202   |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 4 g closed position / 2 g open position  |
| Informations RoHS                              | 2CMT2021-006277   |
| Statut RoHS                                    | Following EU Directive 2011/65/EU   |

## Certificats et Déclarations (Numéro de document)

|                                  |  |
|----------------------------------|--|
| Certificat ABS                   | ABS_20-2060694-PDA                         |
| CB Certificate                   | CB_SE-96552M1                              |
| CCC Certificate                  | CCC_2010010304445623                       |
| CQC Certificate                  | CQC2010010304445623<br>CQC2020010304294316 |
| Declaration of Conformity - CCC  | 2020980304001254<br>2020980304001052       |
| Déclaration de Conformité - CE   | 1SBD250000U1000                            |
| Declaration of Conformity - UKCA | 1SBD250031U1000                            |
| Certificat DNV                   | DNV_TAE00001AF-4                           |
| Certificat LR                    | LRS_LR2002723TA-02                         |
| Certificat RINA                  | RINA_ELE240318XG                           |
| Certificat RMRS                  | RMRS_1802705280                            |
| Certificat UL                    | UL-US-2150887-5                            |

UL-CA-2142658-5

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**Emballage**


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|                             |               |
|-----------------------------|---------------|
| Emballage Niveau 1 Unités   | box 1 pièce   |
| Emballage Niveau 1 Largeur  | 93 mm         |
| Emballage Niveau 1 Longueur | 86 mm         |
| Emballage Niveau 1 Hauteur  | 45 mm         |
| Emballage Niveau 1 Poids    | 0.385 kg      |
| Emballage Niveau 1 EAN      | 3471523155145 |
| Emballage Niveau 2 Unités   | box 21 pièce  |
| Emballage Niveau 2 Largeur  | 250 mm        |
| Emballage Niveau 2 Longueur | 300 mm        |
| Emballage Niveau 2 Hauteur  | 315 mm        |
| Emballage Niveau 2 Poids    | 17.325 kg     |
| Emballage Niveau 3 Unités   | 1080 pièce    |

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**Classifications**


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|  |   |
|--|---|
| Code de classification 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 granulaire IDEA (IGCC) | 4758 >> Iec Contactors  |
| E-Number (Finland)                       | 3707920   |
| E-Number (Sweden)                        | 3210621   |

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