

PRODUCT-DETAILS

AFS40-30-22-13

AFS40-30-22-13 100-250V50/60HZ-DC

Contacteur



Informations générales

| | |
|------------------------------|--|
| Extension du type de produit | AFS40-30-22-13 |
| Code de produit | 1SBL347082R1322 |
| EAN | 3471523157637 |
| Description courte | AFS40-30-22-13 100-250V50/60HZ-DC Contacteur |

Description longue

The AFS40-30-22-13 is a 3 pole - 690 V IEC or 600 V UL contactor with fixed 2 N.O + 2 N.C. front mounted auxiliary contact blocks with screw connections, controlling motors up to 18,5 kW / 400 V AC (AC-3) or 30 hp / 480 V UL and switching power circuits up to 70 A (AC-1) or 60 A UL general use. AFS contactors can be easily integrated in machine manufacturer's systems complying with main standards EN ISO 13849 and EN 62061 - guaranteeing the safe use of your machinery and equipment. An easily identifiable yellow low energy auxiliary contact block ensures the status feedback circuits required in machine safety applications. Thanks to the AF technology, the contactor has a wide control voltage range (100 ... 250 V), 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 | 1SBC101052M6801 |
|-------------------------|-----------------|

CAD Dimensional
Drawing

2CDC001079B0201

Schéma dimensionnel

DNV_TAE00001AF-4

Dimensions

| | |
|----------------------|----------|
| Produit Largeur Net | 55 mm |
| Produit Longueur Net | 144 mm |
| Produit Hauteur Net | 125.5 mm |
| Poids net | 1 kg |

Technique

| | |
|--|--|
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 2 |
| Number of Auxiliary Contacts NC | 2 |
| Normes et standards | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-1, UL 60947-4-1, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22 |
| Tension | Circuit auxiliaire 690 V Circuit principal 690 V |
| Fréquence assignée (f) | Circuit auxiliaire 50 / 60 Hz Circuit de commande 50 / 60 Hz Circuit principal 50 / 60 Hz |
| Courant thermique conventionnel à l'air libre (I_{th}) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40^\circ\text{C}$ 105 A acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A |
| Courant assignée d'emploi AC-1 (I_e) | (690 V) 40 °C 70 A (690 V) 60 °C 60 A (690 V) 70 °C 50 A |
| Courant assignée d'emploi AC-3 (I_e) | (415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A (380 / 400 V) 60 °C 40 A (220 / 230 / 240 V) 60 °C 40 A |
| Courant assignée d'emploi AC-3e (I_e) | (415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A (380 / 400 V) 60 °C 40 A (220 / 230 / 240 V) 60 °C 40 A |
| Puissance assignée d'emploi AC-3 (P_e) | (400 V) 18.5 kW (415 V) 22 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW |
| Puissance assignée d'emploi AC-3e (P_e) | (415 V) 22 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW |
| Courant assignée d'emploi AC-15 (I_e) | (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A |
| Courant assigné de courte | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A |

| | |
|---|--|
| durée admissible (I_{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A for 0.1 s 140 A for 1 s 100 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 600 A |
| Maximum Electrical Switching Frequency | (AC-1) 600 cycles per hour (AC-15) 1200 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour |
| Courant assignée d'emploi DC-1 (I_e) | (110 V) 2 Poles in Series, 40 °C 70 A (110 V) 2 Poles in Series, 60 °C 60 A (110 V) 2 Poles in Series, 70 °C 50 A (110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 60 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 40 °C 70 A (220 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 70 °C 50 A (72 V) 1-Pole, 40 °C 70 A (72 V) 1-Pole, 60 °C 60 A (72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 70 A (72 V) 2 Poles in Series, 60 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 40 °C 70 A (72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A |
| Courant assignée d'emploi DC-3 (I_e) | (110 V) 2 Poles in Series, 40 °C 70 A (110 V) 2 Poles in Series, 60 °C 60 A (110 V) 2 Poles in Series, 70 °C 50 A (110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 60 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 40 °C 70 A (220 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 70 °C 50 A (72 V) 1-Pole, 40 °C 70 A (72 V) 1-Pole, 60 °C 60 A (72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 70 A (72 V) 2 Poles in Series, 60 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 40 °C 70 A (72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A |
| Courant assignée d'emploi DC-5 (I_e) | (110 V) 2 Poles in Series, 40 °C 70 A (110 V) 2 Poles in Series, 60 °C 60 A (110 V) 2 Poles in Series, 70 °C 50 A (110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 60 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 40 °C 70 A (220 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 70 °C 50 A (72 V) 1-Pole, 40 °C 70 A (72 V) 1-Pole, 60 °C 60 A (72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 70 A (72 V) 2 Poles in Series, 60 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 40 °C 70 A (72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A |
| Courant assignée d'emploi DC-13 (I_e) | (24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W |
| Tension assignée d'isolement (U_i) | acc. to IEC 60947-4-1 690 V acc. to IEC 60947-5-1 690 V |

| | |
|---|---|
| | acc. to UL/CSA 600 V |
| Tension assignée de tenue aux chocs (U_{imp}) | 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U_c) | 50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V |
| Durée de fonctionnement nominale | Entre la mise hors tension de la bobine et la fermeture du contact NC (normally closed) 19 ... 105 ms Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 17 ... 100 ms Entre la mise sous tension de la bobine et l'ouverture du contact NC 38 ... 95 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 42 ... 100 ms |
| 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 |
| Mounting by Screws (not supplied) | 2 x M4 or 2 x M6 screws placed diagonally |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 4 ... 35 mm ² Flexible with Insulated Ferrule 1/2x 4 ... 35 mm ² Rigid Stranded 1/2x 6 ... 35 mm ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 2.5 mm ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ² |
| Wire Stripping Length | Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 16 mm |
| Indice de protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Type de borne | Screw Terminals |

Technique UL/CSA

| | |
|--|--|
| Maximum Operating Voltage UL/CSA | Circuit principal 600 V |
| General Use Rating UL/CSA | (600 V AC) 60 A |
| Puissance nominale UL/CSA | (120 V AC) Single Phase 3 hp (200 ... 208 V AC) Three Phase 10 hp (220 ... 240 V AC) Three Phase 15 hp (240 V AC) Single Phase 7-1/2 hp (440 ... 480 V AC) Three Phase 30 hp (550 ... 600 V AC) Three Phase 40 hp |
| Connecting Capacity Main Circuit UL/CSA | Rigid Stranded 1/2x 10-2 AWG |
| Connecting Capacity Control Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG |
| Tightening Torque UL/CSA | Auxiliary Circuit 11 in-lb Control Circuit 11 in-lb Main Circuit 35 in-lb |

Environnement

| | |
|------------------------------|---|
| Température de l'air ambiant | Close to Contactor Fitted with Thermal O/L Relay -40 ... 70 °C Close to Contactor without Thermal O/L Relay -40 ... 70 °C 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 |
| Résistance aux chocs selon CEI 60068-2-27 | Closed, Shock Direction: A 25 g Closed, Shock Direction: B1 25 g Closed, Shock Direction: B2 15 g Closed, Shock Direction: C1 25 g Closed, Shock Direction: C2 25 g |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 3 g closed position / 3 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 |
| Certificat BV | BV_2634H36994B1 |
| CB Certificate | CB_SE-96554 |
| CCC Certificate | CCC_2015010304824714 |
| CQC Certificate | CQC2015010304824714 |
| Declaration of Conformity - CCC | 2020980304001256 |
| Déclaration de Conformité - CE | 1SBD250022U1000 |
| Declaration of Conformity - UKCA | 1SBD250044U1000 |
| Certificat DNV | DNV_TAE00001AF-4 |
| EAC Certificate | EAC_RUC-FRME77B03199 |
| Certificat LR | LRS_LR2002723TA-02 |
| Certificat RMRS | RMRS_1802705280 |
| Certificat UL | UL-US-L312527-1141-10303102-9 UL-CA-L312527-4141-10303102-9 |
| UL Listing Card | E312527 |

Emballage

| | |
|-----------------------------|---------------|
| Emballage Niveau 1 Unités | box 1 pièce |
| Emballage Niveau 1 Largeur | 167 mm |
| Emballage Niveau 1 Longueur | 180 mm |
| Emballage Niveau 1 Hauteur | 97 mm |
| Emballage Niveau 1 Poids | 1.14 kg |
| Emballage Niveau 1 EAN | 3471523157637 |
| Emballage Niveau 2 Unités | box 6 pièce |
| Emballage Niveau 2 Largeur | 250 mm |
| Emballage Niveau 2 Longueur | 300 mm |
| Emballage Niveau 2 Hauteur | 300 mm |
| Emballage Niveau 2 Poids | 6.84 kg |
| Emballage Niveau 3 Unités | 144 pièce |

Classifications

| | |
|--|---|
| 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) | 3708068 |
| E-Number (Sweden) | 3210668 |

Catégories

Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Contacteurs → Contacteurs monoblocs → AFS Contactors → AFS40

