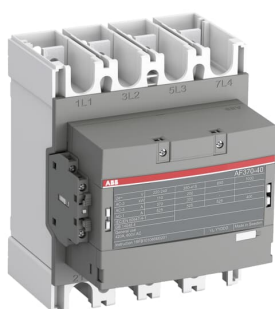


PRODUCT-DETAILS

AF370-40-11-13

AF370-40-11-13 Contactor



Informations générales

| | |
|------------------------------|--------------------------|
| Extension du type de produit | AF370-40-11-13 |
| Code de produit | 1SFL607102R1311 |
| EAN | 7320500504390 |
| Description courte | AF370-40-11-13 Contactor |

Description longue

The AF370-40-11-13 is a 4 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 200 kW / 400 V AC (AC-3) / and switching power circuits up to 525 A (AC-1) or 420 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 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

| | |
|--|-----------------|
| Fiche produit, informations techniques | 1SBC100192C0206 |
| Instructions et manuels | 1SFC100008M0201 |
| CAD Dimensional | 2CDC001079B0201 |

Drawing

Schéma dimensionnel

1SFB535001G1123

Dimensions

| | |
|----------------------|--------|
| Produit Largeur Net | 184 mm |
| Produit Longueur Net | 180 mm |
| Produit Hauteur Net | 225 mm |
| Poids net | 5.7 kg |

Technique

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| Number of Main Contacts NO | 4 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 1 |
| Number of Auxiliary Contacts NC | 1 |
| Tension | Circuit principal 1000 V |
| Fréquence assignée (f) | Circuit principal 50 Hz |
| Courant thermique conventionnel à l'air libre (I_{th}) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 525 A |
| Courant assignée d'emploi AC-1 (I_e) | (1000 V) 40 °C 400 A (1000 V) 60 °C 350 A (1000 V) 70 °C 290 A (690 V) 40 °C 525 A (690 V) 60 °C 425 A (690 V) 70 °C 350 A |
| Courant assignée d'emploi AC-3 (I_e) | (415 V) 55 °C 370 A (440 V) 55 °C 370 A (380 / 400 V) 55 °C 370 A (220 / 230 / 240 V) 55 °C 370 A |
| Puissance assignée d'emploi AC-3 (P_e) | (415 V) 200 kW (440 V) 200 kW (380 / 400 V) 200 kW (220 / 230 / 240 V) 110 kW |
| Pouvoir assigné de coupure AC-3 | 8 x le AC-3 |
| Pouvoir assigné de fermeture AC-3 | 10 x le AC-3 |
| Dispositif de protection contre les courts-circuits | gG Type Fuses 630 A |
| Courant assigné de courte durée admissible (I_{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2960 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1208 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1709 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 440 V 5000 A |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour |
| Tension assignée d'isolement (U_i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V |
| Tension assignée de tenue aux chocs (U_{imp}) | Circuit principal 8 kV |
| Durabilité mécanique | 5 million |
| Maximum Mechanical Switching Frequency | 300 cycles per hour |
| Plage d'utilisation de la | (acc. to IEC 60947-4-1) 0.85 x U_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70\text{ °C}$) |

| | |
|---|--|
| bobine selon | |
| Rated Control Circuit Voltage (U _c) | 50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 17.5 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 17.5 V-A Holding at Max. Rated Control Circuit Voltage DC 4.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 385 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 385 V-A Pull-in at Max. Rated Control Circuit Voltage DC 410 W |
| Durée de fonctionnement nominale | Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 45 ... 80 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 30 ... 60 ms |
| Connecting Capacity Main Circuit | Flexible 2 x 70 ... 185 mm ² Rigid Al-Cable 1 x 185 ... 240 mm ² Rigid Cu-Cable 1 x 6 ... 300 mm ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 2 x 1 ... 4 mm ² |
| Indice de protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 |
| Type de borne | Main Circuit: Bars |

Technique UL/CSA

| | |
|----------------------------------|---|
| Maximum Operating Voltage UL/CSA | Circuit principal 1000 V |
| General Use Rating UL/CSA | (600 V AC) 420 A |
| Puissance nominale UL/CSA | (200 ... 208 V AC) Three Phase 50 Hp (200 V AC) Three Phase 125 hp (208 V AC) Three Phase 125 hp (220 ... 240 V AC) Three Phase 60 Hp (220 ... 240 V AC) Three Phase 150 hp (440 ... 480 V AC) Three Phase 125 Hp (440 ... 480 V AC) Three Phase 300 hp (550 ... 600 V AC) Three Phase 150 Hp (550 ... 600 V AC) Three Phase 350 hp |

Environnement

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|---|--|
| Température de l'air ambiant | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U _c) -25 ... 50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U _c) -40 ... 70 °C Close to Contactor for Storage -40 ... 70 °C |
| Altitude de fonctionnement maximale autorisée | Without Derating 3000 m |
| REACH Declaration | 2CMT2021-006202 |
| Informations RoHS | 2CMT2021-006277 |
| Statut RoHS | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

Valeur Circulaire

| | |
|--|--|
| ABB EcoSolutions | Oui |
| Principes du Design Circulaire - Taux de Recyclabilité | Conçu pour utiliser des ressources recyclables et réutilisables - Norme EN45555 - 76.3 % |
| Instructions relatives à la fin de vie | 1SFC100112M0001 |
| Déchets destinés à l'enfouissement en | Déchet non-dangereux mis en décharge, lorsqu'il n'existe aucune autre alternative à moins de 100km d'un bâtiment - |

décharge - Destination

Amélioration de l'efficacité
des ressources pour les
clients

Efficacité du produit - Produit considéré comme plus économe en énergie par
rapport à un produit similaire sur le marché. -

Matériau Durable
Constitutif

Métal recyclé - 33 %

Eco Transparence

Environmental Product
Declaration - EPD

1SFC100104D0201

Certificats et Déclarations (Numéro de document)

| | |
|-------------------------------------|---------------------|
| Certificat ABS | 14-LD1092198-PDA |
| Certificat BV | BV_36353_A0BV |
| CB Certificate | SE-89316 |
| CQC Certificate | CQC2014010304676670 |
| Declaration of Conformity - CCC | 2020980304001305 |
| Déclaration de Conformité - CE | 2CMT2015-005439 |
| Declaration of Conformity - UKCA | 2CMT2020-006118 |
| EAC Certificate | 9AKK107046A8618 |
| Certificat LR | LR_14_70011(E1) |
| Certificat PRS | TE_2092_880423_16 |
| Certificat RINA | ELE060313XG_002 |
| Certificat RMRS | 9AKK107045A6978 |
| Certificat UL | 20140910-E73397 |

Emballage

| | |
|--------------------------------|---------------|
| Emballage Niveau 1 Unités | box 1 pièce |
| Emballage Niveau 1 Largeur | 212 mm |
| Emballage Niveau 1 Longueur | 262 mm |
| Emballage Niveau 1 Hauteur | 212 mm |
| Emballage Niveau 1 Poids | 6.4 kg |
| Emballage Niveau 1 EAN | 7320500504390 |

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 IDÉA (IGCC) | 4758 >> Iec Contactors |
| E-Number (Finland) | 3707250 |
| E-Number (Norway) | 4117791 |
| E-Number (Sweden) | 3210348 |

