

PRODUCT-DETAILS

# AF1650T-30-11 230-240V 50/60Hz

## AF1650T-30-11 230-240V 50/60Hz Contactor



### Informations générales

|                              |   |
|------------------------------|---|
| Extension du type de produit | AF1650T-30-11 230-240V 50/60Hz  |
| Code de produit              | 1SFL677001R9101   |
| EAN                          | 7320500381090   |
| Description courte           | AF1650T-30-11 230-240V 50/60Hz Contactor  |
| Description longue           | <p>The AF1650T-30-11 230-240V 50/60Hz is a 3 pole - 1000 V IEC or 1000 V UL contactor pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 560 kW / 400 V AC (AC-3) or 900 hp / 480 V UL and switching power circuits up to 1650 A (AC-1) or 1650 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (230-240 V 50/60 Hz), 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.</p> |

### Commande

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

### Downloads Préférés

|  |                 |
|--|-----------------|
| Fiche produit, informations techniques | 1SBC100192C0206 |
| Instructions et manuels                | 1SFC101002M5501 |
| CAD Dimensional Drawing                | 2CDC001079B0201 |
| Schéma dimensionnel                    | 53540930-7      |

## Dimensions

|                      |        |
|----------------------|--------|
| Produit Largeur Net  | 438 mm |
| Produit Longueur Net | 244 mm |
| Produit Hauteur Net  | 392 mm |
| Poids net            | 33 kg  |

## Technique

|  |   |
|--|---|
| Number of Main Contacts NO                                 | 3   |
| 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 / 60 Hz  |
| Courant thermique conventionnel à l'air libre ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 2050 A   |
| Courant assignée d'emploi AC-1 ( $I_e$ )                   | (1000 V) 40 °C 1650 A<br>(1000 V) 55 °C 1450 A<br>(1000 V) 70 °C 1270 A<br>(690 V) 40 °C 1650 A<br>(690 V) 55 °C 1450 A<br>(690 V) 70 °C 1270 A   |
| Courant assignée d'emploi AC-3 ( $I_e$ )                   | (415 V) 55 °C 1060 A<br>(440 V) 55 °C 1060 A<br>(500 V) 55 °C 970 A<br>(690 V) 55 °C 970 A<br>(1000 V) 55 °C 400 A<br>(380 / 400 V) 55 °C 1060 A<br>(220 / 230 / 240 V) 55 °C 1060 A                            |
| Puissance assignée d'emploi AC-3 ( $P_e$ )                 | (415 V) 630 kW<br>(440 V) 710 kW<br>(500 V) 710 kW<br>(690 V) 1000 kW<br>(1000 V) 600 kW<br>(380 / 400 V) 560 kW<br>(220 / 230 / 240 V) 315 kW  |
| Pouvoir assigné de coupure AC-3                            | 8 x Ie AC-3   |
| Pouvoir assigné de fermeture AC-3                          | 10 x Ie AC-3  |
| Courant assigné de courte durée admissible ( $I_{cw}$ )    | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 10000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 2200 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 5500 A |

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 12000 A  
at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 7500 A

|   |  |
|---|--|
| Maximum Breaking Capacity                               | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 12000 A  |
| Maximum Electrical Switching Frequency                  | (AC-1) 60 cycles per hour<br>(AC-2 / AC-4) 60 cycles per hour<br>(AC-3) 60 cycles per hour   |
| Courant assignée d'emploi DC-1 (I <sub>e</sub> )        | (110 V) 1-Pole, 40 °C 1650 A<br>(110 V) 2 Poles in Series, 40 °C 1650 A<br>(220 V) 3 Poles in Series, 40 °C 1650 A<br>(600 V) 3 Poles in Series, 40 °C 1650 A<br>(850 V) 3 Poles in Series, 40 °C 1650 A   |
| Tension assignée d'isolement (U <sub>i</sub> )          | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 1000 V   |
| Tension assignée de tenue aux chocs (U <sub>imp</sub> ) | Circuit principal 8 kV   |
| Durabilité mécanique                                    | 0.5 million  |
| Maximum Mechanical Switching Frequency                  | 300 cycles per hour  |
| Plage d'utilisation de la bobine selon                  | (acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at θ ≤ 70 °C)  |
| Rated Control Circuit Voltage (U <sub>c</sub> )         | 50 Hz 230 ... 240 V<br>60 Hz 230 ... 240 V<br>DC Operation 230 ... 240 V   |
| Coil Consumption  | Holding at Max. Rated Control Circuit Voltage 50 Hz 48 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V·A<br>Holding at Max. Rated Control Circuit Voltage DC 20.5 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2450 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2450 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 2290 V·A   |
| Durée de fonctionnement nominale                        | Entre la mise hors tension de la bobine et la fermeture du contact NC (normally closed) 35 ... 55 ms<br>Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 35 ... 55 ms<br>Entre la mise sous tension de la bobine et l'ouverture du contact NC 50 ... 80 ms<br>Entre la mise sous tension de la bobine et la fermeture du contact NO 50 ... 80 ms |
| Connecting Capacity Main Circuit                        | Bar 100 mm <sup>2</sup>  |
| Connecting Capacity Auxiliary Circuit                   | Flexible with Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible 1x0.75 ... 2.5 mm <sup>2</sup><br>Solid 2 x 1 ... 4 mm <sup>2</sup><br>Stranded 2 x 1 ... 4 mm <sup>2</sup>   |
| 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 IP00   |
| Type de borne   | Main Circuit: Bars   |

## Technique UL/CSA

|                                  |   |
|----------------------------------|---|
| NEMA Size                        | 8   |
| Horsepower Rating NEMA           | (230 V AC) Three Phase 450 Hp<br>(460 V AC) Three Phase 900 Hp<br>(575 V AC) Three Phase 900 Hp |
| Maximum Operating Voltage UL/CSA | Circuit principal 600 V   |
| General Use Rating               | (1000 V AC) 1650 A  |

|                    |  |
|--------------------|--|
| UL/CSA             | (600 V AC) 1650 A                      |
| Puissance nominale | (220 ... 240 V AC) Three Phase 450 hp  |
| UL/CSA             | (440 ... 480 V AC) Three Phase 900 hp  |
|                    | (550 ... 600 V AC) Three Phase 1150 hp |

## Environnement

|   |  |
|---|--|
| Température de l'air ambiant                  | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C<br>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   |

## Certificats et Déclarations (Numéro de document)

|                                  |                     |
|----------------------------------|---------------------|
| Certificat ABS                   | 15-LD1408622-PDA    |
| Certificat BV                    | BV_13409-C0BV       |
| CB Certificate                   | SEMKO_SE-74013      |
| CCS Certificate                  | GB14T00030          |
| CQC Certificate                  | CQC2003010304101933 |
| Declaration of Conformity - CCC  | 2020980304001303    |
| Déclaration de Conformité - CE   | 2CMT2019-005796     |
| Declaration of Conformity - UKCA | 2CMT2020-006118     |
| DNV GL Certificate               | TAE00001W1          |
| EAC Certificate                  | 9AKK107046A8618     |
| Certificat GL                    | GL_20263-04HH       |
| LOVAG Certificate                | SE-201993           |
| Certificat LR                    | 16-20064            |
| Certificat RINA                  | ELE060313XG_002     |
| Certificat UL                    | UL_20130904-E73397  |

## Emballage

|                             |               |
|-----------------------------|---------------|
| Emballage Niveau 1 Unités   | box 1 pièce   |
| Emballage Niveau 1 Largeur  | 555 mm        |
| Emballage Niveau 1 Longueur | 365 mm        |
| Emballage Niveau 1 Hauteur  | 500 mm        |
| Emballage Niveau 1 Poids    | 35 kg         |
| Emballage Niveau 1 EAN      | 7320500381090 |

---

## 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  |

---

