

PRODUCT-DETAILS

AF1650-30-22-70

AF1650-30-22 100-250V 50/60Hz / 100-250V DC Contactor



Informations générales

Extension du type de produit	AF1650-30-22-70
Code de produit	1SFL677001R7022
EAN	7320500249710
Description courte	AF1650-30-22 100-250V 50/60Hz / 100-250V DC Contactor

Description longue	<p>The AF1650-30-22-70 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 (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.</p>
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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	2
Number of Auxiliary Contacts NC	2
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 $\Theta = 40^\circ\text{C}$ 1650 A
Courant assignée d'emploi AC-1 (I_e)	(1000 V) 40 °C 1650 A (1000 V) 55 °C 1450 A (1000 V) 70 °C 1270 A (690 V) 40 °C 1650 A (690 V) 55 °C 1450 A (690 V) 70 °C 1270 A
Courant assignée d'emploi AC-3 (I_e)	(415 V) 55 °C 1060 A (440 V) 55 °C 1060 A (500 V) 55 °C 970 A (690 V) 55 °C 970 A (1000 V) 55 °C 400 A (380 / 400 V) 55 °C 1060 A (220 / 230 / 240 V) 55 °C 1060 A
Puissance assignée d'emploi AC-3 (P_e)	(415 V) 630 kW (440 V) 710 kW (500 V) 710 kW (690 V) 1000 kW (1000 V) 600 kW (380 / 400 V) 560 kW (220 / 230 / 240 V) 315 kW
Pouvoir assigné de fermeture AC-3	10 x I_e 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 at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 2200 A 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 $I_e > 100$ A) at 440 V 12000 A
Maximum Electrical Switching Frequency	(AC-1) 60 cycles per hour (AC-2 / AC-4) 60 cycles per hour (AC-3) 60 cycles per hour
Courant assignée d'emploi DC-1 (I_e)	(110 V) 1-Pole, 40 °C 1650 A (110 V) 2 Poles in Series, 40 °C 1650 A (220 V) 3 Poles in Series, 40 °C 1650 A (600 V) 3 Poles in Series, 40 °C 1650 A (850 V) 3 Poles in Series, 40 °C 1650 A
Tension assignée d'isolement (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 1000 V

Tension assignée de tenue aux chocs (U_{imp})	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_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70^\circ\text{C}$)
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 48 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V·A Holding at Max. Rated Control Circuit Voltage DC 20.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2450 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2450 V·A 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 Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 35 ... 55 ms Entre la mise sous tension de la bobine et l'ouverture du contact NC 50 ... 80 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 50 ... 80 ms
Connecting Capacity Main Circuit	Bar 100 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 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

NEMA Size	8
Horsepower Rating NEMA	(230 V AC) Three Phase 450 Hp (460 V AC) Three Phase 900 Hp (575 V AC) Three Phase 900 Hp
Maximum Operating Voltage UL/CSA	Circuit principal 1000 V
General Use Rating UL/CSA	(1000 V AC) 1650 A (600 V AC) 1650 A
Puissance nominale UL/CSA	(220 ... 240 V AC) Three Phase 450 hp (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 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

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 CQC2015010304752548
Declaration of Conformity - CCC	2020980304001303 2020980304001043
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 PRS	TE_2092_880423_16
Certificat RINA	ELE060313XG_002
Certificat RMRS	9AKK107045A6978
Certificat UL	UL_20130904-E73397
UL Listing Card	UL_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	7320500249710
Emballage Niveau 2 Unités	1 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)	3707165

