

PRODUCT-DETAILS

AF63-30-11 100-250V 50Hz / 100-250V 60Hz /
100-250V DC

AF63-30-11 100-250V 50Hz / 100-250V 60Hz /
100-250V DC Contactor



Informations générales

Extension du type de produit	AF63-30-11 100-250V 50Hz / 100-250V 60Hz / 100-250V DC
Code de produit	1SBL377001R7011
EAN	3471522115003
Description courte	AF63-30-11 100-250V 50Hz / 100-250V 60Hz / 100-250V DC Contactor

Description longue	AF63 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC and 220 V DC. The contactors can also be used for many other applications such as bypass, capacitor switching, lighting, DC power circuits... The AF... contactors are fitted with an electronic coil interface which accepts a wide control voltage range, on AC 50/60 Hz or DC supplies. The same contactor can accept various supply voltages according to the different countries where the electrical equipment will be installed, or some fluctuation in the control voltage due to the local supply or network. The AF... contactors are also fully suitable for operation in AC or DC control circuit liable to voltage interruptions or voltage dip risks. Advantages: - Wide voltage range, e.g. 100 ... 250 V AC and DC - Can manage large voltage variations - Reduced power consumption - Very distinct closing and opening - Noise free - Can withstand voltage interruptions or voltage dips in the control supply (≤ 20 ms). The AF... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles and 2 built-in auxiliary contacts, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available.
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Commande

Quantité minimum	1 pièce
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Code douanier

85364900

Downloads Préférés

Fiche produit, informations techniques	1SNC001003C0202
Instructions et manuels	FPTC407734P0003
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Produit Largeur Net	82 mm
Produit Longueur Net	108 mm
Produit Hauteur Net	110 mm
Poids net	1.22 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
Normes et standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, CSA C22.2 No. 14, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011 (on request), IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.
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 $\Theta = 40\text{ °C}$ 125 A acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 16 A
Courant assignée d'emploi AC-1 (I_e)	(690 V) 40 °C 115 A (690 V) 55 °C 95 A (690 V) 70 °C 80 A
Courant assignée d'emploi AC-3 (I_e)	(415 V) 55 °C 65 A (440 V) 55 °C 65 A (500 V) 55 °C 55 A (690 V) 55 °C 43 A (380 / 400 V) 55 °C 65 A (220 / 230 / 240 V) 55 °C 65
Puissance assignée d'emploi AC-3 (P_e)	(415 V) 37 kW (440 V) 37 kW (500 V) 37 kW (690 V) 37 kW (380 / 400 V) 30 kW (220 / 230 / 240 V) 18.5 kW

Rated Operational Power AC-6b (P_e)	(230 / 240 V) 40 °C, 50 / 60 Hz 25 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 25 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 23 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 43 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 39 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 43 kvar (440 V) 40 °C, 50 / 60 Hz 47 kvar (440 V) 55 °C, 50 / 60 Hz 47 kvar (440 V) 70 °C, 50 / 60 Hz 42.5 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 54 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 54 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 48.5 kvar (690 V) 40 °C, 50 / 60 Hz 74 kvar (690 V) 55 °C, 50 / 60 Hz 74 kvar (690 V) 70 °C, 50 / 60 Hz 67 kvar
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 (380 / 400 V) 3 A
Dispositif de protection contre les courts-circuits	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 125 A
Courant assigné de courte durée admissible (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 135 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 370 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 1300 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 630 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Courant assignée d' emploi DC-1 (I_e)	(110 V) 2 Poles in Series, 40 °C 110 A (110 V) 2 Poles in Series, 55 °C 95 A (110 V) 2 Poles in Series, 70 °C 80 A (110 V) 3 Poles in Series, 40 °C 110 A (110 V) 3 Poles in Series, 55 °C 95 A (110 V) 3 Poles in Series, 70 °C 80 A (220 V) 3 Poles in Series, 40 °C 110 A (220 V) 3 Poles in Series, 55 °C 95 A (220 V) 3 Poles in Series, 70 °C 80 A (72 V) 1-Pole, 40 °C 110 A (72 V) 1-Pole, 55 °C 95 A (72 V) 1-Pole, 70 °C 80 A (72 V) 2 Poles in Series, 40 °C 110 A (72 V) 2 Poles in Series, 55 °C 95 A (72 V) 2 Poles in Series, 70 °C 80 A (72 V) 3 Poles in Series, 40 °C 110 A (72 V) 3 Poles in Series, 55 °C 95 A (72 V) 3 Poles in Series, 70 °C 80 A
Courant assignée d' emploi DC-3 (I_e)	(110 V) 2 Poles in Series, 40 °C 110 A (110 V) 2 Poles in Series, 55 °C 95 A (110 V) 2 Poles in Series, 70 °C 80 A (110 V) 3 Poles in Series, 40 °C 110 A (110 V) 3 Poles in Series, 55 °C 95 A (110 V) 3 Poles in Series, 70 °C 80 A (220 V) 3 Poles in Series, 40 °C 110 A (220 V) 3 Poles in Series, 55 °C 95 A (220 V) 3 Poles in Series, 70 °C 80 A (72 V) 1-Pole, 40 °C 110 A (72 V) 1-Pole, 55 °C 95 A (72 V) 1-Pole, 70 °C 80 A (72 V) 2 Poles in Series, 40 °C 110 A (72 V) 2 Poles in Series, 55 °C 95 A (72 V) 2 Poles in Series, 70 °C 80 A

	(72 V) 3 Poles in Series, 40 °C 110 A (72 V) 3 Poles in Series, 55 °C 95 A (72 V) 3 Poles in Series, 70 °C 80 A
Courant assignée d'emploi DC-5 (I_e)	(110 V) 2 Poles in Series, 40 °C 90 A (110 V) 2 Poles in Series, 55 °C 90 A (110 V) 2 Poles in Series, 70 °C 80 A (110 V) 3 Poles in Series, 40 °C 110 A (110 V) 3 Poles in Series, 55 °C 95 A (110 V) 3 Poles in Series, 70 °C 80 A (220 V) 3 Poles in Series, 40 °C 63 A (220 V) 3 Poles in Series, 55 °C 63 A (220 V) 3 Poles in Series, 70 °C 63 A (72 V) 1-Pole, 40 °C 63 A (72 V) 1-Pole, 55 °C 63 A (72 V) 1-Pole, 70 °C 63 A (72 V) 2 Poles in Series, 40 °C 110 A (72 V) 2 Poles in Series, 55 °C 95 A (72 V) 2 Poles in Series, 70 °C 80 A (72 V) 3 Poles in Series, 40 °C 110 A (72 V) 3 Poles in Series, 55 °C 95 A (72 V) 3 Poles in Series, 70 °C 80 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) 0.30 A / 66 W (250 V) 0.3 / 75 W
Tension assignée d'isolement (U_i)	acc. to IEC 60947-4-1 1000 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Tension assignée de tenue aux chocs (U_{imp})	8 kV
Maximum Mechanical Switching Frequency	300 cycles per hour
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 7 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.8 W Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 2.8 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A
Durée de fonctionnement nominale	Entre la mise hors tension de la bobine et la fermeture du contact NC (normally closed) 35 ... 115 ms Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 30 ... 110 ms Entre la mise sous tension de la bobine et l'ouverture du contact NC 27 ... 95 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 30 ... 100 ms
Montage sur rail DIN	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M6 screws placed diagonally
Connecting Capacity Main Circuit	Flexible with Cable End 6 ... 16 mm² Rigid Cable 6 ... 25 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 ... 2.5 mm² Rigid Cable 1 ... 4 mm²
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
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Technique UL/CSA

Maximum Operating Voltage UL/CSA	Circuit principal 600 V
General Use Rating UL/CSA	(600 V AC) 90 A
Puissance nominale UL/CSA	(120 V AC) Single Phase 5 hp (200 ... 208 V AC) Three Phase 20 hp (220 ... 240 V AC) Three Phase 25 hp (240 V AC) Single Phase 10 hp (440 ... 480 V AC) Three Phase 60 hp (550 ... 600 V AC) Three Phase 75 hp

Environnement

Température de l'air ambiant	Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C Close to Contactor without Thermal O/L Relay -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °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
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class B

Certificats et Déclarations (Numéro de document)

CB Certificate	CB_CN45489
CCC Certificate	CCC_2018010304134049 CCC_2010010304402983
CQC Certificate	CQC2018010304134049 CQC2010010304402983
Declaration of Conformity - CCC	2020980304001624 2020980304001225
Déclaration de Conformité - CE	1SBD250803U1000
Declaration of Conformity - UKCA	1SBD250820U1000
EAC Certificate	EAC_RU C-FR ME77 B01010
Certificat GOST	GOST_POCCFRME77B07175
KC Certificate	KC_HW02032-21002B
Certificat UL	UL-US-L312527-1101-21215991-6 UL-CA-2139468-4
UL Listing Card	UL_E312527

Emballage

Emballage Niveau 1 Unités	1 pièce
Emballage Niveau 1 Largeur	140 mm
Emballage Niveau 1 Longueur	146 mm
Emballage Niveau 1 Hauteur	96 mm
Emballage Niveau 1 Poids	1.22 kg
Emballage Niveau 1 EAN	3471522115003
Emballage Niveau 2 Unités	box 20 pièce
Emballage Niveau 2 Poids	24.4 kg

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)	4756 >> Capacitor magnet contactor

