PRODUCT-DETAILS

AF12-30-01-11

AF12-30-01-11 24-60V50/60HZ 20-60VDC Contactor

Algemene informatie

Type	AF12-30-01-11
Artikelnummer	1SBL157001R1101
EAN	3471523110410
Omschrijving	AF12-30-01-11 24-60V50/60HZ 20-60VDC Contactor
Omschrijving	The AF12-30-01-11 is a 3 pole - 690 V IEC or 600 UL contactor with 1 built-in auxiliary contact and screw terminals, controlling motors up to 5.5 kW / 400 V AC (AC-3) or 7-1/2 hp / 480 V UL and switching power circuits up to 28 A (AC-1) or 28 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (24-60 V 50/60 Hz and 20 -60 V 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.

Ordering

Minimale bestelhoeveelheid	1 stuk
Nummer douanetarief	85364900

Popular Downloads

Instructies en handleidingen	1SBC101027M6801
CAD Dimensional	2CDC001079B0201

Drawing

Dimensions

Product netto breedte	45 mm
Product netto diepte	77 mm
Product netto hoogte	86 mm
Product netto gewicht	0.27 kg

Technical

Aantal hoofdcontacten NO	3
Aantal hoofdcontacten NC	0
Aantal hulpcontacten NO	0
Aantal hulpcontacten NC	1
Normen	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1
Nominaal bedrijfsvoltage	Auxiliary Circuit 690 V Main Circuit 690 V
Toegekende frequentie (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventionele vrije-lucht thermische stroom (I_{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 35 A acc. to IEC 60947-5-1, Θ = 40 °C 16 A
Nominale bedrijfsstroom AC-1 (I_e)	(690 V) 40 °C 28 A (690 V) 60 °C 28 A (690 V) 70 °C 24 A
Nominale bedrijfsstroom AC-3 (I_e)	(415 V) 60 °C 12 A (440 V) 60 °C 12 A (500 V) 60 °C 12.5 A (690 V) 60 °C 9 A (380 / 400 V) 60 °C 12 A (220 / 230 / 240 V) 60 °C 12 A
Nominale bedrijfsstroom AC-3e (I_e)	(415 V) 60 °C 12 A (440 V) 60 °C 12 A (500 V) 60 °C 12.5 A (690 V) 60 °C 9 A (380 / 400 V) 60 °C 12 A (220 / 230 / 240 V) 60 °C 12 A
Nominale bedrijfsvermogen AC-3 (P_e)	(400 V) 5.5 kW (415 V) 5.5 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW (380 / 400 V) 5.5 kW (220 / 230 / 240 V) 3 kW
Nominale bedrijfsvermogen AC-3e (P_e)	(415 V) 5.5 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW (380 / 400 V) 5.5 kW (220 / 230 / 240 V) 3 kW
Nominale bedrijfsstroom 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
Nominale kortstondige grensstroom (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 0.1 s 140 A for 1 s 100 A
Maximale breekcapaciteit	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 106 A

Maximale elektrische schakelfrequentie	(AC-1) 600 omwentelingen per uur (AC-15) 1200 omwentelingen per uur (AC-2 / AC-4) 300 omwentelingen per uur (AC-3) 1200 omwentelingen per uur (DC-13) 900 omwentelingen per uur
Nominale bedrijfsstroom DC-1 (I_e)	(110 V) 1-Pole, 40 °C 15 A (110 V) 1-Pole, 60 °C 15 A (110 V) 1-Pole, 70 °C 15 A (110 V) 2 Poles in Series, 40 °C 27 A (110 V) 2 Poles in Series, 60 °C 27 A (110 V) 2 Poles in Series, 70 °C 24 A (110 V) 3 Poles in Series, 40 °C 27 A (110 V) 3 Poles in Series, 60 °C 27 A (110 V) 3 Poles in Series, 70 °C 24 A (220 V) 2 Poles in Series, 40 °C 15 A (220 V) 2 Poles in Series, 60 °C 15 A (220 V) 2 Poles in Series, 70 °C 15 A (220 V) 3 Poles in Series, 40 °C 27 A (220 V) 3 Poles in Series, 60 °C 27 A (220 V) 3 Poles in Series, 70 °C 24 A (72 V) 1-Pole, 40 °C 27 A (72 V) 1-Pole, 60 °C 27 A (72 V) 1-Pole, 70 °C 24 A (72 V) 2 Poles in Series, 40 °C 27 A (72 V) 2 Poles in Series, 60 °C 27 A (72 V) 2 Poles in Series, 70 °C 24 A (72 V) 3 Poles in Series, 40 °C 27 A (72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 70 °C 24 A
Nominale bedrijfsstroom DC-3 (I_e)	(110 V) 1-Pole, 40 °C 7 A (110 V) 1-Pole, 60 °C 7 A (110 V) 1-Pole, 70 °C 7 A (110 V) 2 Poles in Series, 40 °C 27 A (110 V) 2 Poles in Series, 60 °C 27 A (110 V) 2 Poles in Series, 70 °C 24 A (110 V) 3 Poles in Series, 40 °C 27 A (110 V) 3 Poles in Series, 60 °C 27 A (110 V) 3 Poles in Series, 70 °C 24 A (220 V) 2 Poles in Series, 40 °C 7 A (220 V) 2 Poles in Series, 60 °C 7 A (220 V) 2 Poles in Series, 70 °C 7 A (220 V) 3 Poles in Series, 40 °C 27 A (220 V) 3 Poles in Series, 60 °C 27 A (220 V) 3 Poles in Series, 70 °C 24 A (72 V) 1-Pole, 40 °C 27 A (72 V) 1-Pole, 60 °C 27 A (72 V) 1-Pole, 70 °C 24 A (72 V) 2 Poles in Series, 40 °C 27 A (72 V) 2 Poles in Series, 60 °C 27 A (72 V) 2 Poles in Series, 70 °C 24 A (72 V) 3 Poles in Series, 40 °C 27 A (72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 70 °C 24 A
Nominale bedrijfsstroom DC-5 (I_e)	(110 V) 1-Pole, 40 °C 4 A (110 V) 1-Pole, 60 °C 4 A (110 V) 1-Pole, 70 °C 4 A (110 V) 2 Poles in Series, 40 °C 15 A (110 V) 2 Poles in Series, 60 °C 15 A (110 V) 2 Poles in Series, 70 °C 15 A (110 V) 3 Poles in Series, 40 °C 27 A (110 V) 3 Poles in Series, 60 °C 27 A (110 V) 3 Poles in Series, 70 °C 24 A (220 V) 2 Poles in Series, 40 °C 4 A (220 V) 2 Poles in Series, 60 °C 4 A (220 V) 2 Poles in Series, 70 °C 4 A (220 V) 3 Poles in Series, 40 °C 12 A (220 V) 3 Poles in Series, 60 °C 12 A (220 V) 3 Poles in Series, 70 °C 12 A (72 V) 1-Pole, 40 °C 12 A (72 V) 1-Pole, 60 °C 12 A (72 V) 1-Pole, 70 °C 12 A (72 V) 2 Poles in Series, 40 °C 27 A (72 V) 2 Poles in Series, 60 °C 27 A (72 V) 2 Poles in Series, 70 °C 24 A (72 V) 3 Poles in Series, 40 °C 27 A (72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 70 °C 24 A
Nominale bedrijfsstroom 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
Nominaal isolatievoltage (U_i)	acc. to IEC 60947-4-1 690 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Nominale impuls grensvoltage (U_{imp})	6 kV
Maximale mechanische schakelfrequentie	3600 omwentelingen per uur
Nominale stuurstroomkringspanning (U_c)	50 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 V
Bedieningstijd	Between Coil De-energization and NC Contact Closing 13 ... 98 ms Between Coil De-energization and NO Contact Opening 11 ... 95 ms Between Coil Energization and NC Contact Opening 38 ... 90 ms Between Coil Energization and NO Contact Closing 40 ... 95 ms
Montage op DIN-rail	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
Montage door schroeven (niet meegeleverd)	2 x M4 screws placed diagonally
Verbindingscapaciteit hoofdcircuit	Flexible with Ferrule 1/2x 0.75 ... 6 mm² Flexible with Insulated Ferrule 1x 0.75 ... 4 mm² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm² Rigid Solid 1/2x 1 ... 4 mm² Rigid Stranded 1/2x 1 ... 6 mm²
Verbindingscapaciteit hulpcircuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm² Rigid Solid 1/2x 1 ... 2.5 mm² Rigid Stranded 1/2x 1 ... 2.5 mm²
Verbindingscapaciteit controlecircuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm² Rigid Solid 1/2x 1 ... 2.5 mm² Rigid Stranded 1/2x 1 ... 2.5 mm²
Kabelstriplengte	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm
Beschermingsgraad	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 IP20
Terminaltype	Schroef

Technical UL/CSA

NEMA-grootte	0
Continuous Current Rating NEMA	18 A
Horsepower Rating NEMA	(115 V AC) Single Phase 1 Hp (200 V AC) Three Phase 3 Hp (230 V AC) Single Phase 2 Hp (230 V AC) Three Phase 3 Hp (460 V AC) Three Phase 5 Hp (575 V AC) Three Phase 5 Hp
Maximale bedrijfsspanning UL/CSA	Main Circuit 600 V
Algemeen gebruik klasse UL/CSA	(600 V AC) 28 A
Paardenkrachtklasse UL/CSA	(120 V AC) Single Phase 1 hp (200 ... 208 V AC) Three Phase 3 hp (220 ... 240 V AC) Three Phase 3 hp (240 V AC) Single Phase 2 hp (440 ... 480 V AC) Three Phase 7-1/2 hp

	(550 ... 600 V AC) Three Phase 10 hp
Verbindingscapaciteit hoofdcircuit UL/CSA	Rigid Solid 1/2x 16-10 AWG Rigid Stranded 1/2x 16-10 AWG
Verbindingscapaciteit hulpcircuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Verbindingscapaciteit controlecircuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Aanhaalmoment UL/CSA	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb Main Circuit 13 in·lb

Environmental

Omgevingsluchttemperatuur	bij schakelaar uitgevoerd met thermisch overbelastingsrelais -25 ... 60 °C bij schakelaar zonder thermisch overbelastingsrelais -40 ... 70 °C bij schakelaar voor opslag -60 ... +80 °C
Klimaatbestendig	Category B according to IEC 60947-1 Annex Q
Maximale werkhoogte toegestaan	Without Derating 3000 m
Weerstand tegen trillingen volgens IEC 60068-2-6	5 ... 300 Hz 4 g closed position / 2 g open position
Schokweerstand volgens IEC 60068-2-27	Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g
RoHS-status	Following EU Directive 2011/65/EU

Certificates and Declarations

ABS-certificaat	ABS_20-2060694-PDA
BV-certificaat	BV_2634H24898C0
CB-certificaat	CB_SE-108879
CCC-certificaat	CCC_2010010304445624
CQC-certificaat	CQC2010010304445624 CQC2020010304298240
Declaration of Conformity - CCC	2020980304001253 2020980304001082
Conformiteitsverklaring - CE	1SBD250000U1000
Declaration of Conformity - UKCA	1SBD250031U1000
DNV-certificaat	DNV_TAE00001AF-4
EAC-certificaat	EAC_RU_FRME77B03447
GOST-certificaat	GOST_POCCFR.ME77.B07175.pdf
KC-certificaat	KC_HW02016-15005C
LR-certificaat	LRS_LR2002723TA-02
RINA-certificaat	RINA_ELE240318XG
RMRS-certificaat	RMRS_1802705280
UL-certificaat	UL-US-2150887-5 UL-CA-2142658-5
UL-noteringskaart	E312527

Container Information

Pakketniveau 1 Units	doos 1 stuk
Pakketniveau 1 Breedte	87 mm

Pakketniveau 1 Lengte	79 mm
Pakketniveau 1 Hoogte	47 mm
Pakketniveau 1 Brutogewicht	0.27 kg
Pakketniveau 1 EAN	3471523110410
Pakketniveau 2 Units	doos 27 stuk
Pakketniveau 2 Breedte	250 mm
Pakketniveau 2 Lengte	300 mm
Pakketniveau 2 Hoogte	315 mm
Pakketniveau 2 Brutogewicht	7.29 kg
Pakketniveau 3 Units	1296 stuk

Classifications

Object classificatiecode	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Magneetschakelaar
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Magneetschakelaar
eClass	V11.0 : 27371003
UNSPSC	39121529
IGCC (IDEA granulaire categoriecode)	4758 >> Iec Contactors
E-Number (Finland)	3705803
E-Number (Sweden)	3211340

Categorieën

Laagspanningsproducten en -systemen → Control Producten → Magneetschakelaars → Magneetschakelaars