



PRODUCT-DETAILS

AF12N0-30-01-11
AF12N0-30-01-11 24-60V50/60HZ 20-60VDC
Kontaktor



Generell information

Utökad produkttyp	AF12N0-30-01-11
Artikelnummer	1SBL157001N1101
EAN	3471523016514
Katalogbeskrivning	AF12N0-30-01-11 24-60V50/60HZ 20-60VDC Kontaktor

Beskrivning, lång	The AF12N0-30-01-11 is a 3 pole - 600 V UL, NEMA size N0 contactor with 1 built-in auxiliary contact and Screw, switching power circuits up to 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.
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Beställningsdata

Min. kvantitet	1 styck
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Populära dokument

Instruktioner och manualer	1SBC101027M6801
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Dimensioner

Bredd netto	45 mm
Djup netto	77 mm
Höjd netto	86 mm
Nettovikt	0.27 kg

Teknisk data

Antal huvudkontakter NO	3
Antal huvudkontakter NC	0
Antal hjälpkontakter NO	0
Antal hjälpkontakter NC	1
Antal poler	3P
Standarder	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60335-2-40 LZGH2 A2L, UL 60947-4-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-4-1
Märkdriftspänning	Auxiliary Circuit 690 V Main Circuit 690 V
Märkfrekvens (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Termisk märkström i luft I _{th} (I _{th})	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ }^{\circ}\text{C}$ 35 A acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
Märkdriftsström AC-1 (I _e)	(690 V) 40 °C 28 A (690 V) 60 °C 28 A (690 V) 70 °C 24 A
Märkdriftström 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
Märkdriftström 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
Märkdriftström 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
Mäskström 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
Märkeffekt 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
Märkeffekt 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
Korttidsström (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
Maximal brytkapacitet	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 106 A
Märkisolationsspänning (U_i)	acc. to IEC 60947-4-1 690 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Märkstötspänning (U_{imp})	6 kV
Maximal elektrisk kopplingsfrekvens	(AC-1) 600 cykler per timme (AC-15) 1200 cykler per timme (AC-2 / AC-4) 300 cykler per timme (AC-3) 1200 cykler per timme (DC-13) 900 cykler per timme
Maximal mekanisk kopplingsfrekvens	3600 cykler per timme
Manöverspänning (U_c)	50 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 V
Effektförlust	at 6 A per Pole 0.1 W at Rated Operating Conditions AC-1 per Pole 1 W at Rated Operating Conditions AC-3 per Pole 0.2 W
Tid mellan spolens fränslag och öppen kontakts slutande [ms]	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
Monteras på DIN skena	35 mm x 15 mm monteringsskena 35 mm x 7.5 mm monteringsskena
Monteras med skruv (ej medskickat)	2 x M4 screws placed diagonally
Anslutning huvudkrets	Flexible with Ferrule 1/2x 0.75 ... 6 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 4 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Rigid Solid 1/2x 1 ... 4 mm ² Rigid Stranded 1/2x 1 ... 6 mm ²
Anslutningsbar area hjälpkontakt	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²
Anslutningsbar area manöverkrets	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²
Skalningslängd	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm
Skyddsform	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
Åtdragningsmoment	Auxiliary Circuit 1.2 N·m Control Circuit 1.2 N·m Main Circuit 1.5 N·m
Plinttyp	Screw Terminals
Produktnamn	Block Contactor

Technical UL/CSA

NEMA Size	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
Maximal spänning UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 28 A
Anslutning huvudkrets UL/CSA	Rigid Solid 1/2x 16-10 AWG Rigid Stranded 1/2x 16-10 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Åtdragningsmoment UL/CSA	Auxiliary Circuit 11 in-lb Control Circuit 11 in-lb Main Circuit 13 in-lb
Full Load Amps Motor Use	(120 V AC) Single Phase 1 A (200 ... 208 V AC) Three Phase 3 A (220 ... 240 V AC) Three Phase 3 A (240 V AC) Single Phase 2 A (440 ... 480 V AC) Three Phase 7-1/2 A (550 ... 600 V AC) Three Phase 10 A

Miljö

Omgivningstemperatur luft	för kontaktor monterad med termiskt överlast relä -25 ... 60 °C för kontaktor utan termiskt överlast relä -40 ... 70 °C för lagerhållen kontaktor -60 ... +80 °C
Klimathållfasthet	Category B according to IEC 60947-1 Annex Q
Maximalt tillåten installationshöjd över havet	Without Derating 3000 m
Chockhållfasthet enligt IEC 68-2-27	Closed, Shock Direction: A 30 g Closed, Shock Direction: B1 25 g Closed, Shock Direction: B2 15 g Closed, Shock Direction: C1 25 g Closed, Shock Direction: C2 25 g Open, Shock Direction: A 30 g Open, Shock Direction: B1 5 g Open, Shock Direction: B2 15 g Open, Shock Direction: C1 25 g Open, Shock Direction: C2 25 g
Vibrationshållfasthet enligt IEC 60068-2-6	4g Closed Position & 2g Open position 5 ... 300 Hz
Miljökrav	3

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS information	2CMT2021-006277
RoHS-status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE-kategori	Product Not in WEEE Scope

ABB EcoSolutions

End Of Life Disassembling Instructions	1SBC101080M6801
Sustainable Material Content in Packaging (wt. %)	Recycled Cardboard - 86 %
Sustainable Material	Recycled Metal - 28 %

Content in Product (wt. %)

Certifikat och deklARATIONER

A2L Certificate - UL	9AKK108469A4875;9AKK108469A4879
CB-certifikat	CB_SE-113345
CQC-certifikat	CQC2010010304445624 CQC2020010304298240
Declaration of Conformity - CCC	2020980304001253 2020980304001082
Intyg om överensstämmelse - CE	1SBD250027U1000
Declaration of Conformity - UKCA	1SBD250056U1000
UL-certifikat	UL-US-2150887-5 UL-CA-2142658-5
UL Listing Card	E312527

Förpackningsinformation

Förpackning 1 - enheter	box 1 styck
Förpackning 1 - bredd	87 mm
Förpackning 1 - längd	79 mm
Förpackning 1 - höjd	47 mm
Förpackning 1 - bruttovikt	0.27 kg
Förpackning 1 - EAN	3471523016514
Förpackning 3 - enheter	1296 styck

Externa klassificeringar och standarder

Klassificeringskod	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529

Kategorier

Lågspänningsprodukter → Kontroll- och skyddsapparater → Kontaktorer → NEMA kontaktorer

