

PRODUCT-DETAILS

AF16Z-30-22-20

AF16Z-30-22-20 12-20VDC Kontaktor



Generell information

Utökad produkttyp	AF16Z-30-22-20
Artikelnummer	1SBL176001R2022
EAN	3471523114005
Katalogbeskrivning	AF16Z-30-22-20 12-20VDC Kontaktor

Beskrivning, lång

AF16Z contactors are used for controlling power circuits up to 690 V AC and 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. AF..Z contactors include an electronic coil interface accepting a wide control voltage $U_c \text{ min.} \dots U_c \text{ max.}$ Only four coils cover control voltages between 24...250 V 50/60 Hz or 12...250 V DC. AF..Z contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF..Z contactors allow direct control by PLC-output $\geq 24 \text{ V DC } 500 \text{ mA}$ and obtain a reduced holding coil consumption. AF..Z contactors withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24...250 V 50/60 Hz AF..Z contactors have built-in surge protection and do not require additional surge suppressors The AF... series 2-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles with a non-removable front-mounted 2 N.O. + 2 N.C. auxiliary contact block, side-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 including the "Mechanically Linked" symbol on the contactor side. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: DC operated for AF..Z-30-...-20 contactors. Only AF..Z-30-...-20 contactors need to respect the polarity on the coil terminals (A1+ and A2-). - Accessories: a wide range of accessories is available. Note: 2-stack contactors available in some countries: please consult your ABB representative.

Beställningsdata

Min. kvantitet	1 styck
Tullens tariffnummer	85364900

Populära dokument

Instruktioner och manualer	1SBC101027M6801
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Dimensioner

Bredd netto	45 mm
Djup netto	110.5 mm
Höjd netto	86 mm
Nettovikt	0.36 kg

Teknisk data

Antal huvudkontakter NO	3
Antal huvudkontakter NC	0
Antal hjälpkontakter NO	2
Antal hjälpkontakter NC	2
Standarder	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N° 14
Märkdriftspänning	Auxiliary Circuit 690 V Main Circuit 690 V
Märkfrekvens (f)	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Termisk märkström i luft I_{th}	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 35 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Märkdriftsström AC-1 (I_e)	(690 V) 40 °C 30 (690 V) 60 °C 30 A (690 V) 70 °C 26
Märkdriftström AC-3 (I_e)	(415 V) 60 °C 18 A (440 V) 60 °C 18 A (500 V) 60 °C 15 A (690 V) 60 °C 10.5 A (380 / 400 V) 60 °C 18 A (220 / 230 / 240 V) 60 °C 18 A
Märkeffekt AC-3 (P_e)	(400 V) 7.5 kW (415 V) 9 kW (440 V) 9 kW (500 V) 9 kW (690 V) 9 kW (380 / 400 V) 7.5 kW (220 / 230 / 240 V) 4 kW
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
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
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
Mäskström DC-13 (I _g)	(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
Märkisolationsspänning (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Märkstötspänning (U _{imp})	6 kV
Maximal mekanisk kopplingsfrekvens	3600 cykler per timme
Manöverspänning (U _c)	50 Hz - 50 Hz / 60 Hz 100 ... 250 V 60 Hz - DC Operation 12 ... 20 V
Tid mellan spolens frånslag 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
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 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 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 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 IP40 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
Plinttyp	Screw Terminals

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 30 A
Horse Power Rating UL/CSA	(120 V AC) Single Phase 1-1/2 hp (200 ... 208 V AC) Three Phase 5 hp (220 ... 240 V AC) Three Phase 5 hp (240 V AC) Single Phase 3 hp (440 ... 480 V AC) Three Phase 10 hp (550 ... 600 V AC) Three Phase 15 hp

Åtdragningsmoment
UL/CSA

Auxiliary Circuit 11 IA
Control Circuit 11 IA
Main Circuit 13 IA

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	3000 m
Vibrationshållfasthet enligt IEC 60068-2-6	5 ... 300 Hz 4 g closed position / 2 g open position
Chockhållfasthet enligt IEC 68-2-27	Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40 Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40
RoHS-status	Following EU Directive 2011/65/EU

Certifikat och deklARATIONER

ABS-certifikat	ABS_15-GE1349500-PDA_90682247
BV-certifikat	BV_2634H24898B0
CB-certifikat	CB_SE-96551
CCC-certifikat	CCC_2010010304445624
cUL-certifikat	UL_20180227_E312527_7_1
Intyg om överensstämmelse - CE	1SBD250000U1000
DNV-certifikat	DNV-GL_TAE00001AF-3
DNV GL-certifikat	DNV-GL_TAE00001AF-3
EAC-certifikat	EAC_RU_FRME77B03447
Miljöinformation	1SBD250148E1000
GL-certifikat	DNV-GL_TAE00001AF-3
GOST-certifikat	GOST_POCCFR.ME77.B07175.pdf
Instruktioner och manualer	1SBC101027M6801
KC-certifikat	KC_HW02016-15005C
LR-certifikat	LRS_1300087E1
RINA-certifikat	RINA_ELE240318XG
RMRS-certifikat	RMRS_1802705280
RoHS information	1SBD250000U1000
UL-certifikat	UL_20140305-E312527_7_1
UL Listing Card	E312527

Förpackningsinformation

Förpackning 1 - enheter	box 1 styck
Förpackning 1 - bredd	87 mm

Förpackning 1 - längd	113 mm
Förpackning 1 - höjd	47 mm
Förpackning 1 - bruttovikt	0.36 kg
Förpackning 1 - EAN	3471523114005
Förpackning 2 - enheter	box 18 styck
Förpackning 2 - bredd	250 mm
Förpackning 2 - längd	300 mm
Förpackning 2 - höjd	315 mm
Förpackning 2 - bruttovikt	6.48 kg
Förpackning 3 - enheter	864 styck

Klassificeringar

Klassificeringskod	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
UNSPSC	39121529

Kategorier

Lågspänningsprodukter → Kontroll- och skyddsapparater → Kontaktorer → Kontaktorer

