AF30Z-30-00-20





AF30Z-30-00-20 12-20VDC Contactor

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General Information

Extended Product Type	AF30Z-30-00-20
Product ID	1SBL276001R2000
EAN	3471523114401
Catalog Description	AF30Z-30-00-20 12-20VDC Contactor
Long Description	AF30Z 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. AFZ contactors include an electronic coil interface accepting a wide control voltage Uc min Uc max. Only four coils cover control voltages between 24250 V 50/60 Hz or 12250 V DC. AFZ contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AFZ contactors allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption. AFZ contactors withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24250 V 50/60 Hz AFZ contactors have built-in surge protection and do not require additional surge suppressors The AF series 1-stack 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 3 main poles, front and side-mounted add-on auxiliary contact blocks. (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: DC operated for AFZ-3020 contactors. Only AFZ-3020 contactors need to respect the polarity on the coil terminals (A1+ and A2-) Accessories: a wide range of accessories is available.

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Classifications

Object Classification Code	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

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Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	87 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.35 kg
Package Level 1 EAN	3471523114401
Package Level 2 Units	21 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm

AF30Z-30-00-20 2

Package Level 2 Gross Weight	15.75 kg
Package Level 3 Units	1080 piece

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Certificates and Declarations (Document Number)

ABS Certificate	ABS_15-GE1349500-PDA_90682247
BV Certificate	BV_2634H24898B0
CB Certificate	CB_SE-80872M3
CCC Certificate	CCC_2010010304445623
cUL Certificate	UL_20180227_E312527_7_1
Declaration of Conformity - CE	1SBD250000U1000
DNV Certificate	DNV-GL_TAE00001AF-3
DNV GL Certificate	DNV-GL_TAE00001AF-3
EAC Certificate	EAC_RU C-FR ME77 B03597
Environmental Information	1SBD250149E1000
GL Certificate	DNV-GL_TAE00001AF-3
GOST Certificate	GOST_POCCFR.ME77.B07175.pdf
Instructions and Manuals	1SBC101027M6801
KC Certificate	KC_HW02016-15001A
LR Certificate	LRS_1300087E1
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802705280
RoHS Information	1SBD250000U1000
UL Certificate	UL_20140305-E312527_7_1
UL Listing Card	E312527

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Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 50 A	
Horsepower Rating UL/CSA	(220 240 V AC) Three Phase 10 hp	
	(440 480 V AC) Three Phase 20 hp	
	(550 600 V AC) Three Phase 25 hp	
	(120 V AC) Single Phase 2 hp	
	(200 208 V AC) Three Phase 10 hp	
	(240 V AC) Single Phase 5 hp	
Tightening Torque UL/CSA	Control Circuit 11 IA Main Circuit 22 IA	

Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C	
·	Close to Contactor without Thermal O/L Relay -40 +70 °C	
	Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C	
Climatic Withstand	Category B according to IEC 60947-1 Annex Q	
Maximum Operating Altitude Permissible	3000 m	
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position	
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 30 K40	
	Shock Direction: B2 15 K40	
	Shock Direction: C1 25 K40	
	Shock Direction: C2 25 K40	
	Closed, Shock Direction: B1 25 K40	
	Open, Shock Direction: B1 5 K40	
RoHS Status	Following EU Directive 2011/65/EU	

AF30Z-30-00-20

3

Technical

Number of Main Contacts NO	3	
Number of Main Contacts NC	0	
Number of Auxiliary Contacts NO	0	
Number of Auxiliary Contacts NC	0	
Standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14	
Rated Operational Voltage	Main Circuit 690 V	
Rated Frequency (f)	Main Circuit 50 / 60 Hz	
Conventional Free-air Thermal Current (${\rm I_{th}}$)	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 50 A	
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A	
Rated Operational Current AC-3 (I _e)	(220 / 230 / 240 V) 60 °C 33 A (380 / 400 V) 60 °C 32 A (415 V) 60 °C 32 A (440 V) 60 °C 32 A (500 V) 60 °C 28 A (690 V) 60 °C 21 A	
Rated Operational Power AC-3 (P _e)	(220 / 230 / 240 V) 9 KWT (380 / 400 V) 15 KWT (415 V) 15 KWT (440 V) 18.5 KWT (500 V) 18.5 KWT (690 V) 18.5 KWT (400 V) 15 KWT	
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 1 s -empty- A	
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 200 A	
Maximum Electrical Switching Frequency	AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour	
Rated Insulation Voltage (U _i)	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V	
Rated Impulse Withstand Voltage (U_{imp})	6 kV	
Maximum Mechanical Switching Frequency	3600 cycles per hour	
Rated Control Circuit Voltage (U _c)	DC Operation 12 20 V	
Operate Time	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	
Connecting Capacity Main Circuit	Rigid 1/2x 2.5 10 m ² Flexible with Ferrule 1/2x 1.5 10 m ² Flexible with Insulated Ferrule 1x 1.5 10 m ² Flexible with Insulated Ferrule 2x 1.5 4 m ²	
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 m ² Flexible with Insulated Ferrule 1x 0.75 2.5 m ² Flexible with Insulated Ferrule 2x 0.75 1.5 m ² Rigid 1/2x 1 2.5 m ²	
Wire Stripping Length	Control Circuit 10 mm Main Circuit 14 mm	
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20	
Terminal Type	Screw Terminals	

AF30Z-30-00-20

4

Dimensions

Product Net Width	45 mm
Product Net Depth / Length	86 mm
Product Net Height	86 mm
Product Net Weight	0.35 kg

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Popular Downloads

Instructions and Manuals	1SBC101027M6801	

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

