AF30-30-00-13



Products . Low Voltage Products and Systems . Control Products . Contactors . Block Contactors

General Information

 Extended Product Type:
 AF30-30-00-13

 Product ID:
 1SBL277001R1300

 EAN:
 3471523111233

Catalog Description: AF30-30-00-13 100-250V50/60HZ-DC Contactor

Long Description: AF30 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. The

y are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. AF... contactors include an electronic coil interface accepting a wide control voltage Uc min Uc max. Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 V DC. AF contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF contactors have built-in surge protection and do not require additional surge suppressors. The AF... series 1-sta ck 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: AC or DC operated - Accessories: a wide r

ange of accessories is available.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SBC101411D0201

Dimensions

 Product Net Width:
 45 mm

 Product Net Depth:
 86 mm

 Product Net Height:
 86 mm

 Product Net Weight:
 0.310 kg

Technical

Number of Main Contacts NO: 3 Number of Main Contacts NC: 0 0 Number of Auxiliary Contacts NO: **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 acc. to IEC 60947-4-1, Open Contactors $q = 40 \, ^{\circ}\text{C}$ 50 A (l_{th}) : 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 (Ie): (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 (Pe): (220 / 230 / 240 V) 9 kW

(380 / 400 V) 15 kW

/40010 45114

	(4UU V) 15 KVV (415 V) 15 kW (440 V) 18.5 kW (500 V) 18.5 kW (690 V) 18.5 kW
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):	50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 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:	Flexible with Insulated Ferrule 1x 1.5 10 mm ² Flexible with Insulated Ferrule 2x 1.5 4 mm ² Flexible with Ferrule 1/2x 1.5 10 mm ² Rigid 1/2x 2.5 10 mm ²
Connecting Capacity Control Circuit:	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
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
Environmental	
Ambient Air Temperature:	Close to Contactor for Storage -60 +80 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °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:	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
Technical UL/CSA	

General Use Rating UL/CSA: (600 V AC) 50 A

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Horsepower Rating UL/CSA:	(120 V AC) Single Phase 2 Hp
	(240 V AC) Single Phase 5 Hp
	(200 208 V AC) Three Phase 10 Hp
	(220 240 V AC) Three Phase 10 Hp
	(440 480 V AC) Three Phase 20 Hp
	(550 600 V AC) Three Phase 25 Hp
Tightening Torque UL/CSA:	Control Circuit 11 in·lb
	Main Circuit 22 in·lb

Certificates and Declarations (Document Number)

ABS Certificate:	ABS_15-GE1349500-PDA_90682247
CB Certificate:	CB_SE_70856M1
CCC Certificate:	CCC_2010010304445623
cUL Certificate:	UL_20170607-E312527-7-1
Declaration of Conformity - CE:	1SBD250000U1000
DNV Certificate:	DNV-GL_TAE00001AF-1
DNV GL Certificate:	DNV-GL_TAE00001AF-1
EAC Certificate:	EAC_RU C-FR ME77 B01010
Environmental Information:	1SBD250149E1000
GOST Certificate:	GOST_POCCFR.ME77.B07175.pdf
Instructions and Manuals:	1SBC101027M6801
KC Certificate:	KC_HW02016-15001A
LR Certificate:	LRS_1300087E1
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251012E1000
UL Certificate:	UL_20140305-E312527_7_1
UL Listing Card:	E312527

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	87 mm
Package Level 1 Length:	87 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.31 kg
Package Level 1 EAN:	3471523111233
Package Level 2 Units:	45 piece
Package Level 2 Width:	250 mm
Package Level 2 Length:	300 mm
Package Level 2 Height:	315 mm
Package Level 3 Units:	1080 piece

Classifications

Object Classification Code:	Q
E-nummer:	3211382
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ЕПМ 5:	EC000066 - Magnet contactor, AC-switching
ЕПМ 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529

