AF80-30-00-13



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

 Extended Product Type:
 AF80-30-00-13

 Product ID:
 1SBL397001R1300

 EAN:
 3471523132931

Catalog Description: AF80-30-00-13 100-250V50/60HZ-DC Contactor

Long Description: AF80 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.

Additional Information

ABB Industrial IT Suite:	Control IT
ABS Certificate:	ABS_15-GE1349500-PDA_90682247
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
BV Certificate:	BV_2634H36994A
Block Contactor Type:	3-Pole Contactor
CB Certificate:	CB_SE-77417M1
CCC Certificate:	CCC_2013010304646569
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
Coil Voltage Code:	13
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
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1/2x 650 mm² Flexible with Ferrule 1/2x 650 mm² Rigid 1x 670 mm² Rigid 2x 650 mm²
Conventional Free-air Thermal Current (Ith):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 130 A
Country of Origin:	France (FR)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	1SBC100173C0201
Declaration of Conformity - CE:	1SBD250000U1000
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
E-nummer:	3210053
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471523132931
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / Contactors
EPLAN Function Definition:	Coil / Coil, 2 connection points / Coil for power contactor A1_A2 NO contact / NO contact, 2 connection points / Power NO contact 1_2

	NU contact / NU contact, 2 connection points / Power NU contact 3_4
EPLAN Macro:	NO contact / NO contact, 2 connection points / Power NO contact 5_6
ETIM 4:	9AKK106930A0720
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Magnet contactor, AC-switching
	EC000066 - Power contactor, AC switching
Environmental Information:	1SBD250168E1000
Full Load Amps Motor Use:	(120 V AC) Single Phase 80 A (240 V AC) Single Phase 68 A (200 208 V AC) Three Phase 78.2 A (220 240 V AC) Three Phase 80 A (440 480 V AC) Three Phase 77 A (550 600 V AC) Three Phase 77 A
General Use Rating UL/CSA:	(600 V AC) 105 A
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 7-1/2 Hp (240 V AC) Single Phase 15 Hp (200 208 V AC) Three Phase 25 Hp (220 240 V AC) Three Phase 30 Hp (440 480 V AC) Three Phase 60 Hp (550 600 V AC) Three Phase 75 Hp
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SBC101036M6801
Invoice Description:	AF80-30-00-13 100-250V50/60HZ-DC Contactor
LR Certificate:	LRS_1300087E1
Low Coil Consumption:	No
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1150 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 750 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
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Minimum Order Quantity:	1 piece
Mounted Auxiliary Contacts:	0 NO, 0 NC
Mounted Auxiliary Contacts 1st Stack:	0 NO, 0 NC
Mounted Auxiliary Contacts 2nd Stack:	0 NO, 0 NC
Mounting Position:	Max. N.C. built-in and add-on N.C. auxiliary contacts: see accessory fitting details for a 3-pole contactor AF40 AF96
Mounting Positions:	1SBC500297F0000
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Object Classification Code:	Q
Operate Time:	Between Coil De-energization and NC Contact Closing 19 105 ms Between Coil De-energization and NO Contact Opening 17 100 ms Between Coil Energization and NC Contact Opening 38 95 ms Between Coil Energization and NO Contact Closing 42 100 ms
Order Multiple:	1 piece
Package Level 1 EAN:	3471523132931
Package Level 1 Gross Weight:	1.29 kg
Package Level 1 Height:	103 mm

Package Level 1 Length:	150 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	150 mm
Package Level 2 Height:	300 mm
Package Level 2 Length:	300 mm
Package Level 2 Units:	8 piece
Package Level 2 Width:	250 mm
Package Level 3 Units:	192 piece
Packing Type:	Box
Power Loss:	at Rated Operating Conditions AC-1 per Pole 7.6 W at Rated Operating Conditions AC-3 per Pole 3 W
Product Main Type:	AF80
Product Name:	Block Contactor
Product Net Depth:	116 mm
Product Net Height:	125.5 mm
Product Net Weight:	1.170 kg
Product Net Width:	70 mm
Product Packing Type:	Вох
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
Rated Control Circuit Voltage (U _c):	50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
Rated Frequency (f):	Main Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U _{imp}):	8 kV
	1. III (OOA 000) (
Rated Insulation Voltage (U _i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Insulation Voltage (U _I): Rated Operational Current AC-1 (I _e):	
	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V (690 V) 40 °C 125 A (690 V) 60 °C 100 A
Rated Operational Current AC-1 (I _e):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V (690 V) 40 °C 125 A (690 V) 60 °C 100 A (690 V) 70 °C 85 A (220 / 230 / 240 V) 60 °C 80 A (380 / 400 V) 60 °C 80 A (415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A
Rated Operational Current AC-1 (I _e): Rated Operational Current AC-3 (I _e):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V (690 V) 40 °C 125 A (690 V) 60 °C 100 A (690 V) 70 °C 85 A (220 / 230 / 240 V) 60 °C 80 A (380 / 400 V) 60 °C 80 A (415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A (1000 V) 60 °C 25 A (220 / 230 / 240 V) 22 kW (380 / 400 V) 37 kW (400 V) 37 kW (415 V) 45 kW (440 V) 45 kW (500 V) 45 kW
Rated Operational Current AC-1 (I _e): Rated Operational Current AC-3 (I _e): Rated Operational Power AC-3 (P _e):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V (690 V) 40 °C 125 A (690 V) 60 °C 100 A (690 V) 70 °C 85 A (220 / 230 / 240 V) 60 °C 80 A (380 / 400 V) 60 °C 80 A (415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 25 A (220 / 230 / 240 V) 22 kW (380 / 400 V) 37 kW (400 V) 37 kW (415 V) 45 kW (500 V) 45 kW (500 V) 45 kW

Open, Shock Direction: B1 5 g

Resistance to Vibrations acc. to IEC 60068-2-6:	5 300 Hz 3 g closed position / 3 g open position
RoHS Information:	1SBD251021E1000
Selling Unit of Measure:	piece
Short Description:	AF80-30-00-13 100-250V50/60HZ-DC Contactor
Terminal Type:	ScrewTerminals
Tightening Torque:	Control Circuit 1.2 N·m Main Circuit 6 N·m
Tightening Torque UL/CSA:	Control Circuit 11 in·lb Main Circuit 53 in·lb
UL Certificate:	UL_20130926-E312527_14_1
UL Listing Card:	UL_E312527
UNSPSC:	39121529
Wire Stripping Length:	Main Circuit 17 mm
DNV GL Certificate:	DNV-GL_E13871