AF09-30-10-12



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

General Information

 Extended Product Type:
 AF09-30-10-12

 Product ID:
 1SBL137001R1210

 EAN:
 3471523110021

Catalog Description: AF09-30-10-12 48-130V50/60HZ-DC Contactor

Long Description: AF09 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, 1 built-in auxiliary contact, 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 operat

ed - Accessories: a wide range 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	
Block Contactor Type:	3-Pole Contactor	
CB Certificate:	CB_SE_70855M1	
CCC Certificate:	CCC_2010010304445624	
Class NK Certificate:	ClassNK_TA17156M_AF	
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q	
Coil Voltage Code:	12	
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid 1/2x 1 2.5 mm²	
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 1x 0.75 4 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible with Ferrule 1/2x 0.75 6 mm² Rigid 1/2x 1 6 mm²	
Conventional Free-air Thermal Current (Ith):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 35 A acc. to IEC 60947-5-1, q = 40 °C 16 A	
Country of Origin:	France (FR)	
Customs Tariff Number:	85364900	
DNV Certificate:	DNV-GL_TAE00001AF-1	
DNV GL Certificate:	DNV-GL_TAE00001AF-1	
Data Sheet, Technical Information:	1SBC101401D0201	
Declaration of Conformity - CE:	1SBD250000U1000	
Degree of Protection:	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,	IFC 60947-1	FN 60529 Main	Terminals IP20
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E-nummer:	3210007	
EAC Certificate:	EAC_RU C-FR ME77 B01010	
EAN:	3471523110021	
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 NO contact / NO contact, 2 connection points / Power NO contact 3_4 NO contact / NO contact, 2 connection points / Power NO contact 5_6 NO contact / NO contact, 2 connection points / NO auxiliary contact 13_14	
EPLAN Graphical Macro:	9AKK106930A0693	
EPLAN Macro:	9AKK106930A0692	
ETIM 4:	EC000066 - Magnet contactor, AC-switching	
ETIM 5:	EC000066 - Magnet contactor, AC-switching	
ЕТІМ 6:	EC000066 - Power contactor, AC switching	
Environmental Information:	1SBD250147E1000	
Full Load Amps Motor Use:	(120 V AC) Single Phase 13.8 A (240 V AC) Single Phase 10 A (200 208 V AC) Three Phase 7.8 A (220 240 V AC) Three Phase 6.8 A (440 480 V AC) Three Phase 7.6 A (550 600 V AC) Three Phase 9 A	
GOST Certificate:	GOST_POCCFR.ME77.B07175.pdf	
General Use Rating UL/CSA:	(600 V AC) 25 A	
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 3/4 Hp (240 V AC) Single Phase 1-1/2 Hp (200 208 V AC) Three Phase 2 Hp (220 240 V AC) Three Phase 2 Hp (440 480 V AC) Three Phase 5 Hp (550 600 V AC) Three Phase 7-1/2 Hp	
IIT Publishing Status:	Level 0 - Information enabled	
Industrial IT Certification Level:	0	
Instructions and Manuals:	1SBC101027M6801	
Invoice Description:	AF09-30-10-12 48-130V50/60HZ-DC Contactor	
KC Certificate:	KC_HW02016-15004A	
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 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 A	
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-15 1200 cycles per hour AC-2 / AC-4 300 cycles per hour AC-3 1200 cycles per hour DC-13 900 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:	1 NO, 0 NC	
Mounted Auxiliary Contacts 1st Stack:	1 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 AF09 AF38	
Mounting Positions:	1SBC500297F0000	

Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
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 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
Order Multiple:	1 piece
Package Level 1 EAN:	3471523110021
Package Level 1 Gross Weight:	0.27 kg
Package Level 1 Height:	47 mm
Package Level 1 Length:	79 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	87 mm
Package Level 2 Height:	315 mm
Package Level 2 Length:	300 mm
Package Level 2 Units:	54 piece
Package Level 2 Width:	250 mm
Package Level 3 Units:	1296 piece
Power Loss:	at Rated Operating Conditions AC-1 per Pole 0.8 W at Rated Operating Conditions AC-3 per Pole 0.1 W
Product Main Type:	AF09
Product Name:	Block Contactor
Product Net Depth:	77 mm
Product Net Height:	86 mm
Product Net Weight:	0.270 kg
Product Net Width:	45 mm
Product Packing Type:	Box
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
Rated Control Circuit Voltage (U _c):	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V
Rated Frequency (f):	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U _{imp}):	6 kV
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 Operational Current AC-1 (I _e):	(690 V) 40 °C 25 A (690 V) 60 °C 25 A (690 V) 70 °C 22 A
Rated Operational Current AC-15 (I _e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Rated Operational Current AC-3 (I _e):	(220 / 230 / 240 V) 60 °C 9 A (380 / 400 V) 60 °C 9 A (415 V) 60 °C 9 A (440 V) 60 °C 9 A (500 V) 60 °C 9.5 A

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Rated Operational Current DC-13 (l _e):	(110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (48 V) 2.8 A / 134 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W (72 V) 1 A / 72 W
Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 2.2 kW (380 / 400 V) 4 kW (400 V) 4 kW (415 V) 4 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW
Rated Operational Voltage:	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Short-time Withstand Current (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
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
Resistance to Vibrations acc. to IEC 60068-2-6:	5 300 Hz 4 g closed position / 2 g open position
RoHS Date:	20090609
RoHS Information:	1SBD251013E1000
Selling Unit of Measure:	piece
Short Description:	AF09-30-10-12 48-130V50/60HZ-DC Contactor
Standards:	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14
Terminal Type:	Screw Terminals
Tightening Torque:	Auxiliary Circuit 1.2 N·m Control Circuit 1.2 N·m Main Circuit 1.5 N·m
Tightening Torque UL/CSA:	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb Main Circuit 13 in·lb
UL Certificate:	UL_20140305-E312527_7_1
UL Listing Card:	E312527
UNSPSC:	39121529
Wire Stripping Length:	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm

UL_20170607-E312527-7-1

cUL Certificate:

