



Automatización Eléctrica Especialistas en Automatización

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General Information

Extended Product Type:	AF96-30-11-14			
Product ID:	1SBL407001R1411			
EAN:	3471523133341			
Catalog Description:	AF96-30-11-14 250-500V50/60HZ-DC Contactor			
Long Description:	AF96 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 contactors include an electronic coil interface accepting a wide control voltage Uc min Uc max. Only four coils cover control voltages between 24500 V 50/60 Hz or 20500 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 2-stack 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 3 main poles with side-mounted 1 N.O. + 1 N.C. auxiliary contact block, front-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: AC or DC operated - Accessories: a wide range of accessories is available. Note: 2-stack contactors available in some countries: please consult your ABB representative. AF3011 not suitable for a direct control by PLC-output.			

Categories

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

Ordering			
EAN:	3471523133341		
Minimum Order Quantity:	1 piece		
Customs Tariff Number:	85369085		
Dimensions			
Product Net Width:	82 mm		
Product Net Depth:	116 mm		
Product Net Height:	125.5 mm		
Product Net Weight:	1.210 kg		
Container Information			
Package Level 1 Units:	1 piece		
Package Level 1 Width:	150 mm		
Package Level 1 Length:	150 mm		
Package Level 1 Height:	103 mm		
Package Level 1 Gross Weight:	1.33 kg		
Package Level 1 EAN:	3471523133341		
Package Level 2 Units:	10 piece		
Package Level 2 Width:	300 mm		
Package Level 2 Length:	320 mm		
Package Level 2 Height:	500 mm		
Package Level 3 Units:	1296 piece		
Technical			
Number of Main Contacts NO:	3		
Number of Main Contacts NC:	0		
Number of Auxiliary Contacts NO:	1		
Number of Auxiliary Contacts NC:	1		
Rated Operational Voltage:	Auxiliary Circuit 690 V Main Circuit 690 V		
Rated Frequency (f):	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz		
Conventional Free-air Thermal Current (I _{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 130 A acc. to IEC 60947-5-1, q = 40 °C 16 A		
Rated Operational Current AC-1 (I _e):	(690 V) 40 °C 130 A (690 V) 60 °C 105 A (690 V) 70 °C 90 A		
Rated Operational Current AC-3 (I _e):	(220 / 230 / 240 V) 60 °C 96 A (380 / 400 V) 60 °C 96 A (415 V) 60 °C 96 A (440 V) 60 °C 96 A		

	(500 V) 60 °C 80 A (690 V) 60 °C 57 A (1000 V) 60 °C 30 A		
Rated Operational Power AC-3 (P _e):			
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 Short-time Withstand Current (I _{cw}):	t at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 780 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A for 0.1 s 140 A for 1 s 100 A		
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-15 1200 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour DC-13 900 cycles per hour		
Rated Operational Current DC-13 (I _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 Insulation Voltage (Ui):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V		
Rated Impulse Withstand Voltage (U _{imp}):	8 kV		
Maximum Mechanical Switching Frequency:	3600 cycles per hour		
Rated Control Circuit Voltage (U _c):	50 Hz 250 500 V 60 Hz 250 500 V DC Operation 250 500 V		
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		
Connecting Capacity-Main Circuit:	Flexible with Insulated Ferrule 1/2x 650 mm ² Flexible with Ferrule 1/2x 650 mm ² Rigid 1x 670 mm ² Rigid 2x 650 mm ²		
Connecting Capacity-Auxiliary 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 12.5 mm ²		
Connecting Capacity-Control Circuit	:: Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.752.5 mm ² Flexible with Insulated Ferrule 2x 0.751.5 mm ² Rigid 1/2x 12.5 mm ²		
Wire Stripping Length:	Main Circuit 17 mm		
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, IEC 60947-1, EN 60529 Main Terminals IP10		
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		
Maximum Operating Altitude Permissible:	3000 m		
Resistance to Shock acc. to IEC	Closed, Shock Direction: A 25 g		

60068-2-27:	Closed, Shock Direction: B1 25 g Closed, Shock Direction: B2 15 g Closed, Shock Direction: C1 25 g Closed, Shock Direction: C2 25 g Open, Shock Direction: B1 5 g				
Resistance to Vibrations acc. to IE 60068-2-6:	C 5300 Hz 3 g closed position / 3 g open position				
Technical UL/CSA					
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 7-1/2 Hp (240 V AC) Single Phase 20 Hp (200 208 V AC) Three Phase 30 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				
Tightening Torque UL/CSA:	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb Main Circuit 53 in·lb				
Certificates and Declarations (I	Document Number)				
ABS Certificate:	ABS_15-GE1349500-PDA_90682247				
BV Certificate:	BV_2634H36994A				
CB Certificate:	CB_SE_77417				
CCC Certificate:	CCC_2013010304646569				
cUL Certificate:	UL_20130926-E312527_14_1				
Declaration of Conformity - CE:	1SBD250176C3000				
DNV Certificate:	DNV-GL_E13871				
EAC Certificate:	EAC_RU C-FR ME77 B01010				
GL Certificate:	DNV-GL_E13871				
LR Certificate:	LRS_1300087E1				
RINA Certificate:	RINA_ELE084013XG				
RMRS Certificate:	RMRS_1400682124				
RoHS Information:	1SBD251021E1000				
	136D231021E1000				

Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529







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Product	Code	Reference	Product link
AF96-30-11-14 250-500V50/60HZ-DC Contactor	1SBL407001R1411	AF96-30-11-14	Buy on EAN