



## Automatización Eléctrica Especialistas en Automatización

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## **General Information**

Extended Product Type:	AF80-30-11-13
Product ID:	1SBL397001R1311
EAN:	3471523133037
Catalog Description:	AF80-30-11-13 100-250V50/60HZ-DC Contactor
Long Description:	AF80 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. 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

Ordoring		
Ordering EAN:	3471523133037	
Minimum Order Quantity:	1 piece	
Customs Tariff Number:	85369085	
	0.00000	
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:	3471523133037	
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 <sub>th</sub> ):	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 <sub>e</sub> ):	(690 V) 40 °C 125 A (690 V) 60 °C 100 A (690 V) 70 °C 85 A	
Rated Operational Current AC-3 (I <sub>e</sub> ):	(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			
Rated Operational Power AC-3 (P <sub>e</sub> ):				
Rated Operational Current AC-15 (I <sub>e</sub> ):	(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 <sub>cw</sub> ):	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 <sub>e</sub> ):	(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 <sub>imp</sub> ):	8 kV			
Maximum Mechanical Switching Frequency:	3600 cycles per hour			
Rated Control Circuit Voltage (U <sub>c</sub> ):	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 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 <sup>2</sup> Flexible with Ferrule 1/2x 650 mm <sup>2</sup> Rigid 1x 670 mm <sup>2</sup> Rigid 2x 650 mm <sup>2</sup>			
Connecting Capacity-Auxiliary Circuit:	Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 1.5 mm <sup>2</sup> Rigid 1/2x 12.5 mm <sup>2</sup>			
Connecting Capacity-Control Circuit	:: Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.752.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.751.5 mm <sup>2</sup> Rigid 1/2x 12.5 mm <sup>2</sup>			
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 IEC 60068-2-6:	5300 Hz 3 g closed position / 3 g open position		
Technical UL/CSA			
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		
Tightening Torque UL/CSA:	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb Main Circuit 53 in·lb		
Certificates and Declarations (D	ocument 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		

## Classifications

RMRS Certificate: RoHS Information:

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

RMRS\_1400682124

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- Purchasing management, order record and tracking of shipments.

To access the product, <u>click on the green button</u>.

Product	Code	Reference	Product link
AF80-30-11-13 100-250V50/60HZ-DC Contactor	1SBL397001R1311	AF80-30-11-13	Buy on EAN