AF09-30-01-11



AF09-30-01-11 24-60V50/60HZ 20-60VDC Contactor



General Information	
Extended Product Type	AF09-30-01-11
Product ID	1SBL137001R1101
EAN	3471523110113
Catalog Description	AF09-30-01-11 24-60V50/60HZ 20-60VDC Contactor
Long Description	AF09 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 1 -stack 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 operated - Accessories: a wide range of accessories is available. Note: AF3011 not suitable for a direct control by PLC-output. AF3011 contactor type available in some countries: please consult your ABB representative.
— Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads

Instructions and Manuals	1SBC101027M6801

Dimensions

D. J. (AL CARTH)	45	
Product Net Width	45 mm	
Product Net Depth / Length	77 mm	
Product Net Height	86 mm	
Product Net Weight	0.27 kg	

Technical

Number of Main Contacts NO	3	
Number of Main Contacts NC	0	
Number of Auxiliary Contacts NO	0	
Number of Auxiliary Contacts NC	1	

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Standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14	
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 35 A acc. to IEC 60947-5-1, q = 40 °C 16 A	
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-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 (690 V) 60 °C 7 A	
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 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})	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	
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	
Rated Operational Current DC-13 (I _e)	(110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W (125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W	
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 24 60 V 60 Hz 24 60 V DC Operation 20 60 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 0.75 4 mm ² Flexible with Insulated Ferrule 2x 0.75 2.5 mm ²	