

PRODUCT-DETAILS

AF26-30-11-11 AF26-30-11-11 24-60V50/60HZ 20-60VDC Contactor



Extended Product Type	AF26-30-11-11
Product ID	1SBL237001R1111
EAN	3471523111011
Catalog Description	AF26-30-11-11 24-60V50/60HZ 20-60VDC Contactor
Long Description	AF26 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 betweer 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 a non- removable front-mounted 1 N.O. + 1 N.C. auxiliary contact block, side-mounted add-or 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. AF3 11 not suitable for a direct control by PLC-output

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Instructions and 1SBC101027M6801 Manuals

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	111.5 mm
Product Net Height	86 mm
Product Net Weight	0.35 kg

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
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 50 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 45 (690 V) 60 °C 40 A (690 V) 70 °C 32
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A (380 / 400 V) 60 °C 26 A (220 / 230 / 240 V) 60 °C 26 A
Rated Operational Power AC-3 (P _e)	(400 V) 11 kw (415 V) 11 kw (440 V) 15 kw (500 V) 15 kw (690 V) 15 kw (380 / 400 V) 11 kw (220 / 230 / 240 V) 6.5 kw
Rated Operational Current AC-15 (I _e)	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 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 500 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 200 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 (24 V) 6 A / 144 W Current DC-13 (Ia) (a) (28 V) 28 A / 134 W (72 V) 1A / 72 W (10 V) 0.55 A / 60 W (125 V) 0.57 A / 60 W (220 V) 0.27 A / 60 W (220 V) 0.27 A / 60 W (200 V) 0.13 A / 60 W (500 V) 0.13 A / 60 W (10) M Rated Impulse 6 kV Withstand Voltage (Uimp) Maximum Mechanical 3600 cycles per hour Switching Frequency Switching Frequency Switching Frequency Switching Frequency Sol Hz / 60 Hz 24 60 V Voltage (Uc) 50 Hz / 60 Hz 24 60 V DC Operation 20 60 V DC Ontact Closing 13 98 ms Between Coil De-energization and NC Contact Opening 11 95 ms Eutween Coil De-energization and NC Contact Closing 40 95 ms Connecting Capacity Flexible with Insulated Ferrule 12 X 15 10 mm ² Rigid 1/2X 1 25 mm ² Connecting Capacity Flexible with Insulated Ferrule 12 X 0.5 25 mm ³ Rigid 1/2X 1 25 m		
(10 V) 0.55 A / 69 W (110 V) 0.55 A / 69 W (22 V) 0.57 A / 60 W (600 V) 0.18 A / 60 W (60 V) 0.18 A / 60 V (70 V) 0.18 A	Rated Operational	(24 V) 6 A / 144 W
(10 V) 0.55 A / 60 W (125 V) 0.27 A / 60 W (220 V) 0.27 A / 60 W (220 V) 0.27 A / 68 W (200 V) 0.15 A / 68 W (500 V) 0.15 A / 65 W (500 V) 0.13 A / 65 W Withstand Voltage (U _{inp})) Nated Impulse Maximum Mechanical Solution 2 (10 C) Solution 2 (10 C) Operate Time Decomposition 2 (10 C) Operate Time Detween Coil De-energization and NC Contact Opening 1398 ms Between Coil De-energization and NC Contact Opening 1395 ms Between Coil Energization and NC Contact Opening 1495 ms Between Coil Energization and NC Contact Opening 14	Current DC-13 (I _e)	
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(250 Y) 0.27 Å / 68 W (400 V) 0.15 Å / 60 W (500 V) 0.13 Å / 65 W (600 V) 0.13 Å / 65 W (600 V) 0.13 Å / 65 W (600 V) 0.13 Å / 65 W (10) (67. C) 690 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V (U1) acc. to UL/CSÅ 600 V Rated Impulse 6 kV Withstand Voltage (Uimp 3600 cycles per hour Switching Frequency 3600 cycles per hour Rated Control Circuit 50 Hz 24 60 V Voltage (U_c) 50 Hz / 60 Hz 24 60 V Operate Time Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 13 97 ms Between Coil Energization and NC Contact Closing 14 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Connecting Capacity Flexible with Insulated Ferrule 2x 15 10 mm² Rigid 1/2x 2.5 10 mm² Rigid 1/2x 1 2.5 mm² Connecting Capa		
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acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20	Degree of Protection	
Terminal Type Screw Terminals		acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
	Terminal Type	Screw Terminals

Technical UL/CSA	
General Use Rating UL/CSA	(600 V AC) 45 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 2 hp (200 208 V AC) Three Phase 7-1/2 hp (220 240 V AC) Three Phase 7-1/2 hp (240 V AC) Single Phase 3 hp (440 480 V AC) Three Phase 15 hp (550 600 V AC) Three Phase 20 hp
Tightening Torque UL/CSA	Auxiliary Circuit 11 IA Control Circuit 11 IA Main Circuit 22 IA
Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor for Storage -60 +80 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating	3000 m

Maximum Operating Altitude Permissible

Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position
Resistance to Shock acc.	Closed, Shock Direction: B1 25 K40
to IEC 60068-2-27	Open, Shock Direction: B1 5 K40
	Shock Direction: A 30 K40
	Shock Direction: B2 15 K40
	Shock Direction: C1 25 K40
	Shock Direction: C2 25 K40
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

ABS Certificate	ABS_15-GE1349500-PDA_90682247
BV Certificate	BV_2634H24898B0
CB Certificate	CB_SE-96552
CCC Certificate	CCC_2010010304445623
cUL Certificate	UL_20180227_E312527_7_1
Declaration of Conformity - CE	1SBD250000U1000
DNV Certificate	DNV-GL_TAE00001AF-3
DNV GL Certificate	DNV-GL_TAE00001AF-3
EAC Certificate	EAC_RU_FRME77B03447
Environmental Information	1SBD250150E1000
GL Certificate	DNV-GL_TAE00001AF-3
GOST Certificate	GOST_POCCFR.ME77.B07175.pdf
Instructions and Manuals	1SBC101027M6801
KC Certificate	KC_HW02016-15001C
LR Certificate	LRS_1300087E1
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802705280
RoHS Information	1SBD250000U1000
UL Certificate	UL_20140305-E312527_7_1
UL Listing Card	E312527

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	121 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.35 kg
Package Level 1 EAN	3471523111011
Package Level 2 Units	box 18 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	6.3 kg
Package Level 3 Units	864 piece

Classifications	
Object Classification Code	Q

ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

