

PRODUCT-DETAILS

AF38-30-11-12

AF38-30-11-12 48-130V50/60HZ-DC Contactor



General Information			
Extended Product	Гуре		
Product ID			

 Product ID
 1SBL297001R1211

 EAN
 3471523111622

Catalog Description

Long Description

AF38-30-11-12 48-130V50/60HZ-DC Contactor

AF38-30-11-12

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 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 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-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.

AF38 contactors are used for controlling power circuits up to 690 V AC and 220 V DC.

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.

Ordering

Minimu	um Order Quantity	1 piece
Custom	ns Tariff Number	85364900

Popular Downloads

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1SBC101027M6801 Instructions and 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 $^\circ$
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 50 (690 V) 60 °C 42 A (690 V) 70 °C 37
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 38 A (440 V) 60 °C 38 A (500 V) 60 °C 33 A (690 V) 60 °C 24 A (380 / 400 V) 60 °C 38 A
Rated Operational Power AC-3 (P _e)	(220 / 230 / 240 V) 60 °C 40 A (400 V) 18.5 kW (415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 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 Current DC-13 (I _e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W

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	(72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 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 48 130 V 50 Hz / 60 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 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 Ferrule 1/2x 1.5 10 mm² Flexible with Insulated Ferrule 1x 1.5 10 mm² Flexible with Insulated Ferrule 2x 1.5 4 mm² Rigid 1/2x 2.5 10 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Rigid 1/2x 1 2.5 mm ²
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
Wire Stripping Length	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 14 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 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) 50 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 2 hp (200 208 V AC) Three Phase 10 hp (220 240 V AC) Three Phase 10 hp (240 V AC) Single Phase 5 hp (440 480 V AC) Three Phase 25 hp (550 600 V AC) Three Phase 30 hp
Tightening Torque UL/CSA	Auxiliary Circuit 11 IA Control Circuit 11 IA Main Circuit 22 IA

Ambient Air	Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C
Temperature	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 Altitude Permissible	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position

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Resistance to Shock acc. to IEC 60068-2-27

Closed, Shock Direction: B1 25 K40 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

Following EU Directive 2011/65/EU

E312527

RoHS Status

UL Listing Card

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 UL_20180227_E312527_7_1 cUL Certificate 1SBD250000U1000 Declaration of Conformity - CE **DNV** Certificate DNV-GL_TAE00001AF-3 **DNV GL Certificate** DNV-GL_TAE00001AF-3 **EAC Certificate** EAC_RU_FRME77B03447 Environmental 1SBD250150E1000 Information GL Certificate DNV-GL_TAE00001AF-3 **GOST Certificate** GOST POCCFR.ME77.B07175.pdf Instructions and 1SBC101027M6801 Manuals KC_HW02016-15001C **KC** Certificate LR Certificate LRS_1300087E1 **RINA Certificate** RINA_ELE240318XG **RMRS** Certificate RMRS_1802705280 1SBD250000U1000 **RoHS Information UL** Certificate UL 20140305-E312527 7 1

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	114 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.35 kg
Package Level 1 EAN	3471523111622
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	12.6 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

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ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
UNSPSC	39121529

Categories

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

