## AF40-30-00-11



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

General Information	
extended Product Type:	AF40-30-00-11
Product ID:	1SBL347001R1100
AN:	3471523132016
Catalog Description:	AF40-30-00-11 24-60V50/60HZ 20-60VDC Contactor
ong Description:	AF40 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. The y 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-sta ck 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 3 main poles, 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 r ange of accessories is available.
Additional Information	
ABB Industrial IT Suite:	Control IT
ABS Certificate:	ABS_15-GE1349500-PDA_90682247
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
BV Certificate:	BV_2634H36994A
Block Contactor Type:	3-Pole Contactor
CB Certificate:	CB_SE_77418
CCC Certificate:	CCC_2012010304589737
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
Coil Voltage Code:	11
Connecting Capacity Control 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 1 2.5 mm <sup>2</sup>
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1/2x 435 mm <sup>2</sup> Flexible with Ferrule 1/2x 435 mm <sup>2</sup> Rigid 1/2x 635 mm <sup>2</sup>
Conventional Free-air Thermal Current (I <sub>th</sub> ):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 105 A
Country of Origin:	France (FR)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	1SBC100173C0201
Declaration of Conformity - CE:	1SBD250000U1000
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
E-nummer:	3210030
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471523132016
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / Contactors
EPLAN Function Definition:	Coil / Coil, 2 connection points / Coil for power contactor A1_A2 NO contact / NO contact, 2 connection points / Power NO contact 1_2 NO contact / NO contact, 2 connection points / Power NO contact 3_4

NO contact / NO contact, 2 connection points / Power NO contact 3\_4

	NU contact / NU contact, 2 connection points / Power NU contact 5_6
EPLAN Macro:	9AKK106930A0708
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
Environmental Information:	1SBD250168E1000
Full Load Amps Motor Use:	(120 V AC) Single Phase 34 A (240 V AC) Single Phase 40 A (200 208 V AC) Three Phase 32.2 A (220 240 V AC) Three Phase 42 A (440 480 V AC) Three Phase 40 A (550 600 V AC) Three Phase 41 A
General Use Rating UL/CSA:	(600 V AC) 60 A
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 3 Hp (240 V AC) Single Phase 7-1/2 Hp (200 208 V AC) Three Phase 10 Hp (220 240 V AC) Three Phase 15 Hp (440 480 V AC) Three Phase 30 Hp (550 600 V AC) Three Phase 40 Hp
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SBC101036M6801
Invoice Description:	AF40-30-00-11 24-60V50/60HZ 20-60VDC Contactor
LR Certificate:	LRS_1300087E1
Low Coil Consumption:	No
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 600 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Minimum Order Quantity:	1 piece
Mounted Auxiliary Contacts:	0 NO, 0 NC
Mounted Auxiliary Contacts 1st Stack:	0 NO, 0 NC
Mounted Auxiliary Contacts 2nd Stack:	0 NO, 0 NC
Mounting Position:	Max. N.C. built-in and add-on N.C. auxiliary contacts: see accessory fitting details for a 3-pole contactor AF40 AF96
Mounting Positions:	1SBC500297F0000
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Object Classification Code:	Q
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
Order Multiple:	1 piece
Package Level 1 EAN:	3471523132016
Package Level 1 Gross Weight:	1.07 kg
Package Level 1 Height:	97 mm
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Package Level 1 Units:	1 piece
Package Level 1 Width:	150 mm
Package Level 2 Height:	300 mm
Package Level 2 Length:	300 mm
Package Level 2 Units:	10 piece
Package Level 2 Width:	250 mm
Package Level 3 Units:	240 piece
Packing Type:	Box
Power Loss:	at Rated Operating Conditions AC-1 per Pole 3 W at Rated Operating Conditions AC-3 per Pole 1 W
Product Main Type:	AF40
Product Name:	Block Contactor
Product Net Depth:	111 mm
Product Net Height:	125.5 mm
Product Net Weight:	0.970 kg
Product Net Width:	55 mm
Product Packing Type:	Box
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
Rated Control Circuit Voltage (U <sub>c</sub> ):	50 Hz 24 60 V 60 Hz 24 60 V DC Operation 20 60 V
Rated Frequency (f):	Main Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U <sub>imp</sub> ):	6 kV
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 Operational Current AC-1 ( $I_e$ ):	(690 V) 40 °C 70 A (690 V) 60 °C 60 A (690 V) 70 °C 50 A
Rated Operational Current AC-3 ( $I_e$ ):	(220 / 230 / 240 V) 60 °C 40 A (380 / 400 V) 60 °C 40 A (415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A
Rated Operational Power AC-3 (P <sub>e</sub> ):	(220 / 230 / 240 V) 11 kW (380 / 400 V) 18.5 kW (400 V) 18.5 kW (415 V) 22 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW
Rated Operational Voltage:	Main Circuit 690 V
Rated Short-time Withstand Current (I <sub>cw</sub> ):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A
Resistance to Shock acc. to IEC 60068-2- 27:	Closed, Shock Direction: A 25 g 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	5 300 Hz 3 g closed position / 3 g open position

60068-2-6:	
RoHS Information:	1SBD251021E1000
Selling Unit of Measure:	piece
Short Description:	AF40-30-00-11 24-60V50/60HZ 20-60VDC Contactor
Terminal Type:	Screw Terminals
Tightening Torque:	Control Circuit 1.2 N·m Main Circuit 4 N·m
Tightening Torque UL/CSA:	Control Circuit 11 in·lb Main Circuit 35 in·lb
UL Certificate:	UL_20130926-E312527_14_1
UL Listing Card:	UL_E312527
UNSPSC:	39121529
Wire Stripping Length:	Main Circuit 16 mm
DNV GL Certificate:	DNV-GL_E13871

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