

## **General Information**

Extended Product Type:	AF30-30-00-11
Product ID:	1SBL277001R1100
EAN:	3471523111219
Catalog Description:	AF30-30-00-11 24-60V50/60HZ 20-60VDC Contactor
Long Description:	AF30 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, 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.

## Categories

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

Ordening		
Ordering EAN:	3471523111219	
Minimum Order Quantity:	1 piece	
Customs Tariff Number:	85369085	
Dimensions		
Product Net Width:	45 mm	
Product Net Depth:	86 mm	
Product Net Height:	86 mm	
Product Net Weight:	0.310 kg	
Container Information		
Package Level 1 Units:	1 piece	
Package Level 1 Width:	87 mm	
Package Level 1 Length:	87 mm	
Package Level 1 Height:	47 mm	
Package Level 1 Gross Weight:	0.31 kg	
Package Level 1 EAN:	3471523111219	
Package Level 2 Units:	45 piece	
Package Level 2 Width:	250 mm	
Package Level 2 Length:	300 mm	
Package Level 2 Height:	315 mm	
Package Level 3 Units:	1080 piece	
Technical		
Number of Main Contacts NO:	3	
Number of Main Contacts NC:	0	
Number of Auxiliary Contacts NO:	0	
Number of Auxiliary Contacts NC:	0	
Standards:	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14	
Rated Operational Voltage:	Main Circuit 690 V	
Rated Frequency (f):	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 50 A	
Rated Operational Current AC-1 (Ie):	: (690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A	
Poted Operational Current AC 2 (L)		

Rated Operational Current AC-3 (Ie): (220 / 230 / 240 V) 60  $^\circ$ C 33 A

(380 / 400 V) 60 °C 32 A (415 V) 60 °C 32 A (440 V) 60 °C 32 A (440 V) 60 °C 32 A (500 V) 60 °C 28 A

(690 V) 60 °C 21 A (220 / 230 / 240 V) 9 kW (380 / 400 V) 15 kW (400 V) 15 kW (415 V) 15 kW (440 V) 18.5 kW (500 V) 18.5 kW
(690 V) 18.5 kW 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
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
AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour
acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
6 kV
3600 cycles per hour
50 Hz 24 60 V 60 Hz 24 60 V DC Operation 20 60 V
Between Coil De-energization and NC Contact Closing 1398 ms Between Coil De-energization and NO Contact Opening 1195 ms Between Coil Energization and NC Contact Opening 3890 ms Between Coil Energization and NO Contact Closing 4095 ms
Flexible with Insulated Ferrule 1x 1.510 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.54 mm <sup>2</sup> Flexible with Ferrule 1/2x 1.510 mm <sup>2</sup> Rigid 1/2x 2.510 mm <sup>2</sup>
: 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>
Control Circuit 10 mm Main Circuit 14 mm
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
Screw Terminals
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
Category B according to IEC 60947-1 Annex Q
3000 m
5 300 Hz 4 g closed position / 2 g open position
Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g
Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1
(600 V AC) 50 A
(120 V AC) Single Phase 2 Hp (240 V AC) Single Phase 5 Hp (200 208 V AC) Three Phase 10 Hp (220 240 V AC) Three Phase 10 Hp (440 480 V AC) Three Phase 20 Hp (550 600 V AC) Three Phase 25 Hp

ABS Certificate:	ABS_15-GE1349500-PDA_90682247
CB Certificate:	CB_SE_70856M1
CCC Certificate:	CCC_2010010304445623
Data Sheet, Technical Information:	1SBC101411D0201
Declaration of Conformity - CE:	1SBD250000U1000
DNV Certificate:	DNV-GL_E13871
EAC Certificate:	EAC_RU C-FR ME77 B01010
GL Certificate:	DNV-GL_E13871
GOST Certificate:	GOST_POCCFR.ME77.B07175.pdf
LR Certificate:	LRS_1300087E1
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251012E1000
UL Certificate:	UL_20140305-E312527_7_1
UL Listing Card:	UL_E312527
Instructions and Manuals:	1SBC101027M6801

## Classifications

Object Classification Code:	Q
E-nummer:	3211345
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching

