AF65-30-11-11



General Information

Extended Product Type:	AF65-30-11-11
Product ID:	1SBL387001R1111
EAN:	3471523132719
Catalog Description:	AF65-30-11-11 24-60V50/60HZ 20-60VDC Contactor
Long Description:	AF65 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 2-stack 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 3 main poles with side-mounted 1 N.O. + 1 N.C. 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. AF3011 not suitable for a direct control by PLC-output.

Categories

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

Ordering	
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85369085
EAN:	3471523132719
Dimensions	
Product Net Depth:	111 mm
Product Net Height:	125.5 mm
Product Net Weight:	1.010 kg
Product Net Width:	67 mm
Container Information	
Package Level 1 Width:	150 mm
Package Level 1 Length:	150 mm
Package Level 1 Height:	97 mm
Package Level 1 Gross Weight:	1.11 kg
Package Level 1 EAN:	3471523132719
Package Level 2 Units:	10 piece
Package Level 2 Width:	250 mm
Package Level 2 Length:	300 mm
Package Level 2 Height:	300 mm
Package Level 3 Units:	240 piece
Package Level 1 Units:	1 piece
Technical	
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	1
Rated Operational Voltage:	Auxiliary Circuit 690 V
Taled operational Voltage.	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 105 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I _e):	(690 V) 40 °C 105 A (690 V) 60 °C 90 A (690 V) 70 °C 80 A
Rated Operational Current AC-3 (I _e):	(220 / 230 / 240 V) 60 °C 65 A (380 / 400 V) 60 °C 65 A (415 V) 60 °C 65 A (440 V) 60 °C 65 A (500 V) 60 °C 55 A

	(600.) () 60. °C 20. A
Rated Operational Power AC-3 (Pe):	(690 V) 60 °C 39 A (220 / 230 / 240 V) 18 5 kW
Nated Operational Fower AC-5 (Fe).	(380 / 400 V) 30 kW
	(400 V) 30 kW
	(415 V) 37 kW (440 V) 37 kW
	(500 V) 37 kW
Poted Operational Current AC 15	(690 V) 37 kW
Rated Operational Current AC-15 (I _e):	(220 / 240 V) 4 A (24 / 127 V) 6 A
	(400 / 440 Ý) 3 A
	(500 V) 2 A (690 V) 2 A
Rated Short-time Withstand Current	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A
(I _{cw}):	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
	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 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-15 1200 cycles per hour
. i equeiloji	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	(110 V) 0.55 A / 60 W
(l _e):	(125 V) 0.55 A / 69 W
	(220 V) 0.27 A / 60 W (24 V) 6 A / 144 W
	(250 V) 0.27 A / 68 W
	(400 V) 0.15 A / 60 W (48 V) 2.8 A / 134 W
	(500 V) 0.13 A / 65 W
	(600 V) 0.1 A / 60 W (72 V) 1 A / 72 W
Rated Insulation Voltage (Ui):	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 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
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1/2x 435 mm ² Flexible with Ferrule 1/2x 435 mm ²
	Rigid 1/2x 635 mm²
Connecting Capacity Auxiliary 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
Connecting Canacity Control Circuit	Rigid 1/2x 12.5 mm² : Flexible with Ferrule 1/2x 0.75 2.5 mm²
connecting capacity control circuit	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:	Main Circuit 16 mm
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Terminal Type:	Screw Terminals
Number of Main Contacts NO:	3
Environmental	
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible:	3000 m
	5 300 Hz 3 g closed position / 3 g open position
60068-2-6:	
Resistance to Shock acc. to IEC	Closed, Shock Direction: A 25 g

60068-2-27:	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
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

Technical UL/CSA

Horsepower Rating UL/CSA:	(120 V AC) Single Phase 5 Hp (240 V AC) Single Phase 15 Hp (200 208 V AC) Three Phase 20 Hp (220 240 V AC) Three Phase 25 Hp (440 480 V AC) Three Phase 50 Hp (550 600 V AC) Three Phase 60 Hp
Tightening Torque UL/CSA:	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb Main Circuit 35 in·lb

Certificates and Declarations (Document Number)

Instructions and Manuals:	1SBC101036M6801
ABS Certificate:	ABS_15-GE1349500-PDA_90682247
BV Certificate:	BV_2634H36994A
CB Certificate:	CB_SE_77418
CCC Certificate:	CCC_2012010304589737
Data Sheet, Technical Information:	1SBC100173C0201
Declaration of Conformity - CE:	1SBD250000U1000
DNV Certificate:	DNV-GL_E13871
EAC Certificate:	EAC_RU C-FR ME77 B01010
GL Certificate:	DNV-GL_E13871
LR Certificate:	LRS_1300087E1
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251021E1000
UL Certificate:	UL_20130926-E312527_14_1

Classifications

ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529
Object Classification Code:	Q

