AF52-30-11-13



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

General Information

Extended Product Type: AF52-30-11-13

Product ID: 1SBL367001R1311 **EAN**: 3471523132436

Catalog Description: AF52-30-11-13 100-250V50/60HZ-DC Contactor

Long Description: AF52 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-induct ive or slightly inductive loads. AF... contactors include an electronic coil int erface 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 c ontactors can manage large control voltage variations. One coil can be use d for different control voltages used worldwide without any coil change. AF contactors have built-in surge protection and do not require additional surg e suppressors. The AF... series 2-stack 3-pole contactors are of the block t ype design. - Main poles and auxiliary contact blocks: 3 main poles with sid e-mounted 1 N.O. + 1 N.C. auxiliary contact block, front-mounted add-on a uxiliary contact blocks (mechanically-linked auxiliary contacts compliant wit h 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 609 47-4-1) - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available. Note: 2-stack contactors available in some countri es: please consult your ABB representative. AF ..- 30 - .. - 11 not suitable for a

direct control by PLC-output.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SBC100173C0201

Instructions and Manuals: 1SBC101036M6801

Dimensions

Product Net Width: 67 mm

Product Net Depth: 111 mm

Product Net Height: 125.5 mm

Product Net Weight: 0.990 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
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 105 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I _e):	(690 V) 40 °C 100 A (690 V) 60 °C 80 A (690 V) 70 °C 70 A
Rated Operational Current AC-3 (I _e):	(220 / 230 / 240 V) 60 °C 53 A (380 / 400 V) 60 °C 53 A (415 V) 60 °C 53 A (440 V) 60 °C 53 A (500 V) 60 °C 45 A (690 V) 60 °C 35 A
Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 15 kW (380 / 400 V) 22 kW (400 V) 22 kW (415 V) 30 kW (440 V) 30 kW (500 V) 30 kW (690 V) 30 kW
Rated Operational Current AC-15 (I _e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Rated Short-time Withstand Current (I _{cw}):	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 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 AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour DC-13 900 cycles per hour

Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
nvironmental 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
Terminal Type:	Screw Terminals
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
Wire Stripping Length:	Main Circuit 16 mm
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
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 Rigid 1/2x 1 2.5 mm ²
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1/2x 4 35 mm ² Flexible with Ferrule 1/2x 4 35 mm ² Rigid 1/2x 6 3 5 mm ²
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
Rated Control Circuit Voltage (U _c):	50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Rated Impulse Withstand Voltage (U _{imp}):	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 DC-13 (I _e):	(110 V) 0.55 A / 60 A (125 V) 0.55 A / 69 A (220 V) 0.27 A / 60 A (24 V) 6 A / 144 A (250 V) 0.27 A / 68 A (400 V) 0.15 A / 60 A (48 V) 2.8 A / 134 A (500 V) 0.13 A / 65 A (600 V) 0.1 A / 60 A

Maximum Operating Altitude Permissible:	3000 m	
Resistance to Vibrations acc. to IEC 60068-2-6:	5 300 Hz 3 g closed position / 3 g open position	
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	

Technical UL/CSA

General Use Rating UL/CSA:	(600 V AC) 80 A
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 3 Hp
	(240 V AC) Single Phase 10 Hp
	(200 208 V AC) Three Phase 15 Hp
	(220 240 V AC) Three Phase 20 Hp
	(440 480 V AC) Three Phase 40 Hp
	(550 600 V AC) Three Phase 50 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)

ABS Certificate:	ABS_15-GE1349500-PDA_90682247
BV Certificate:	BV_2634H36994A
CB Certificate:	CB_SE_77418
CCC Certificate:	CCC_2012010304589737 CCC_2015010304824714
Declaration of Conformity - CE:	1SBD250000U1000
DNV Certificate:	DNV-GL_TAE00001AF-1
DNV GL Certificate:	DNV-GL_TAE00001AF-1
EAC Certificate:	EAC_RU C-FR ME77 B01010
Environmental Information:	1SBD250168E1000
Instructions and Manuals:	1SBC101036M6801
KC Certificate:	KC_HW02016-15010A
LR Certificate:	LRS_1300087E1
RINA Certificate:	RINA_ELE084013XG
RMRS Certificate:	RMRS_1400682124
RoHS Information:	1SBD251021E1000
UL Certificate:	UL_20130926-E312527_14_1
UL Listing Card:	UL_E312527

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	150 mm
Package Level 1 Length:	150 mm
Package Level 1 Height:	97 mm
Package Level 1 Gross Weight:	1.09 kg
Package Level 1 EAN:	3471523132436
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

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
UNSPSC:	39121529

