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#### **General Information**

AF52-30-11-14 **Extended Product Type:** 1SBL367001R1411 Product ID: EAN: 3471523132443

**Catalog Description:** AF52-30-11-14 250-500V50/60HZ-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-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:  $\boldsymbol{3}$ main poles with side-mounted 1 N.O. + 1 N.C. auxiliary contact block, front-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. 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. AF..-30-..-11 not suitable for a direct control by PLC-output.

**Categories** 

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

Ordering

EAN: 3471523132443 **Minimum Order Quantity:** 1 piece **Customs Tariff Number:** 85369085

#### **Dimensions**

**Product Net Width:** 67 mm **Product Net Depth:** 111 mm **Product Net Height:** 125.5 mm **Product Net Weight:** 0.990 kg

### **Container Information**

Package Level 1 Units: 1 piece Package Level 1 Width: 150 mm 150 mm Package Level 1 Length: Package Level 1 Height: 97 mm Package Level 1 Gross Weight: 1.09 kg Package Level 1 EAN: 3471523132443 Package Level 2 Units: 12 piece Package Level 2 Width: 300 mm Package Level 2 Length: 320 mm Package Level 2 Height: 500 mm

acc. to IEC 60947-4-1, Open Contactors q = 40 °C 105 A

#### **Technical**

Number of Main Contacts NO: 3 Number of Main Contacts NC: 0 **Number of Auxiliary Contacts NO: Number of Auxiliary Contacts NC:** 

Conventional Free-air Thermal

Auxiliary Circuit 690 V Rated Operational Voltage: Main Circuit 690 V

Rated Frequency (f): Auxiliary Circuit 50 / 60 Hz

Main Circuit 50 / 60 Hz

Current (Ith):

acc. to IEC 60947-5-1, q = 40 °C 16 A

Rated Operational Current AC-1 (Ie): (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

(220 / 230 / 240 V) 15 kW Rated Operational Power AC-3 (P<sub>e</sub>):

(380 / 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** 

(l<sub>e</sub>):

(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 at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A

(I<sub>cw</sub>):

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

**Rated Operational Current DC-13** 

(l<sub>e</sub>):

(110 V) 0.55 A / 60 W (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<sub>imp</sub>):

**Maximum Mechanical Switching** 

Frequency:

**Operate Time:** 

Rated Control Circuit Voltage (U<sub>c</sub>):

3600 cycles per hour

50 Hz 250 ... 500 V 60 Hz 250 ... 500 V

DC Operation 250 ... 500 V

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

Flexible with Insulated Ferrule 1/2x 4...35 mm² **Connecting Capacity-Main Circuit:** 

Flexible with Ferrule 1/2x 4...35 mm<sup>2</sup> Rigid 1/2x 6...35 mm<sup>2</sup>

**Connecting Capacity-Auxiliary** 

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-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>

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

**Environmental** 

**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

**Maximum Operating Altitude** 

Permissible:

3000 m

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:

# 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		
cUL Certificate:	UL_20130926-E312527_14_1		
Declaration of Conformity - CE:	1SBD250176C3000		
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		

## Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529







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Product	Code	Reference	Product link
AF52-30-11-14 250-500V50/60HZ-DC Contactor	1SBL367001R1411	AF52-30-11-14	Buy on EAN