## AF38-30-00-14



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

General Information

Extended Product Type: AF38-30-00-14

**Product ID:** 1SBL297001R1400

**EAN:** 3471523111547

Catalog Description: AF38-30-00-14 250-500V50/60HZ-DC Contactor

Long Description: AF38 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 1-stack 3-pole contactors are of the block t ype design. - Main poles and auxiliary contact blocks: 3 main poles, front a nd side-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contact s compliant with Annex F of IEC 60947-4-1) - Control circuit: AC or DC ope

rated - Accessories: a wide range of accessories is available.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SBC101412D0201

Instructions and Manuals: 1SBC101027M6801

**Dimensions** 

Product Net Width: 45 mm

Product Net Depth / Length: 86 mm

Product Net Height: 86 mm

Product Net Weight: 0.350 kg

**Technical** 

Number of Main Contacts NO: 3

Number of Main Contacts NC: 0

Number of Auxiliary Contacts NC:

**Number of Auxiliary Contacts NO:** 

0

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 $(I_e)$ :	(690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A
Rated Operational Current AC-3 (I <sub>e</sub> ):	(220 / 230 / 240 V) 60 °C 40 A (380 / 400 V) 60 °C 38 A (415 V) 60 °C 38 A (440 V) 60 °C 38 A (500 V) 60 °C 33 A (690 V) 60 °C 24 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) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW
Rated Short-time Withstand Current (I <sub>cw</sub> ):	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 for 1 s -empty- A
Maximum Breaking Capacity:	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
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour
Rated Insulation Voltage (U <sub>i</sub> ):	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> ):	6 kV
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> ):	50 Hz 250 500 V 60 Hz 250 500 V DC Operation 250 500 V

Operate Time:	Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NO Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NO Contact Closing 40 95 ms
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1x 1.5 10 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.5 4 mm <sup>2</sup> Flexible with Ferrule 1/2x 1.5 10 mm <sup>2</sup> Rigid 1/2x 2.5 10 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:	Control Circuit 10 mm Main Circuit 14 mm
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
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
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
Climatic Withstand:  Maximum Operating Altitude  Permissible:	Category B according to IEC 60947-1 Annex Q 3000 m
Maximum Operating Altitude	
Maximum Operating Altitude Permissible: Resistance to Vibrations acc. to	3000 m
Maximum Operating Altitude Permissible:  Resistance to Vibrations acc. to IEC 60068-2-6:  Resistance to Shock acc. to IEC	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
Maximum Operating Altitude Permissible:  Resistance to Vibrations acc. to IEC 60068-2-6:  Resistance to Shock acc. to IEC 60068-2-27:	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
Maximum Operating Altitude Permissible:  Resistance to Vibrations acc. to IEC 60068-2-6:  Resistance to Shock acc. to IEC 60068-2-27:	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

## Certificates and Declarations (Document Number)

ABS Certificate:	ABS_15-GE1349500-PDA_90682247
BV Certificate:	BV_2634H24898B0
CB Certificate:	CB_SE-80872M3
CCC Certificate:	CCC_2010010304445623
cUL Certificate:	UL_20180227_E312527_7_1
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:	1SBD250149E1000
GOST Certificate:	GOST_POCCFR.ME77.B07175.pdf
Instructions and Manuals:	1SBC101027M6801
KC Certificate:	KC_HW02016-15001A
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:	E312527

## **Container Information**

Package Level 1 Units:	1 piece
Package Level 1 Width:	87 mm
Package Level 1 Depth / Length:	87 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.35 kg
Package Level 1 EAN:	3471523111547
Package Level 2 Units:	45 piece
Package Level 2 Width:	250 mm
Package Level 2 Depth / Length:	300 mm
Package Level 2 Height:	315 mm
Package Level 2 Gross Weight:	15.75 kg
Package Level 3 Units:	1080 piece

## Classifications

Object Classification Code:	Q
E-nummer:	3211387

ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching



