

General Information

 Extended Product Type:
 AF38-30-00-13

 Product ID:
 1SBL297001R1300

 EAN:
 3471523111530

Catalog Description: AF38-30-00-13 100-250V50/60HZ-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-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 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.

Categories

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

Ordering

Minimum Order Quantity: 1 piece
Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SBC101412D0201

Dimensions

Product Net Width: 45 mm
Product Net Depth: 86 mm
Product Net Height: 86 mm
Product Net Weight: 0.310 kg

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 (Ith):

acc. to IEC 60947-4-1, Open Contactors q = 40 & #176; 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

Rated Operational Current AC-3 (Ie): (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 (Pe): (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 at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A

(I_{cw}):

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

acc. to UL/CSA 600 V Rated Insulation Voltage (Ui):

acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V

Rated Impulse Withstand Voltage

(U_{imp}):

Maximum Mechanical Switching

Frequency:

3600 cycles per hour

Rated Control Circuit Voltage (U_c):

50 Hz 100 ... 250 V

60 Hz 100 ... 250 V DC Operation 100 ... 250 V

Between Coil De-energization and NC Contact Closing 13 ... 98 ms Operate Time:

> 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 mm² Flexible with Insulated Ferrule 2x 1.5 ... 4 mm²

Flexible with Ferrule 1/2x 1.5 ... 10 mm² Rigid 1/2x 2.5 ... 10 mm²

Connecting Capacity Control Circuit: Flexible with Ferrule 1/2x 0.75 ... 2.5 mm²

Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm²

Rigid 1/2x 1 ... 2.5 mm²

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

Maximum Operating Altitude

Permissible:

3000 m

Resistance to Vibrations acc. to IEC 5 ... 300 Hz 4 g closed position / 2 g open position

60068-2-6:

Resistance to Shock acc. to IEC

60068-2-27:

Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 q Shock Direction: A 30 g

Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 q

Technical UL/CSA

General Use Rating UL/CSA: (600 V AC) 50 A

Horsepower Rating UL/CSA: (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 25 Hp (550 ... 600 V AC) Three Phase 30 Hp

Tightening Torque UL/CSA: Control Circuit 11 in·lb

Main Circuit 22 in·lb

Certificates and Declarations (Document Number)

ABS Certificate: ABS 15-GE1349500-PDA 90682247

CB Certificate: CB_SE_70856M1 **CCC Certificate:** CCC_2010010304445623 **cUL Certificate:** UL 20170607-E312527-7-1 Declaration of Conformity - CE: 1SBD250000U1000 DNV-GL_TAE00001AF-1 **DNV Certificate: 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 Length: 87 mm 47 mm Package Level 1 Height: Package Level 1 Gross Weight: 0.31 kg Package Level 1 EAN: 3471523111530 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

Classifications

Object Classification Code:

E-nummer:

3211386

ETIM 4:

EC000066 - Magnet contactor, AC-switching

ETIM 5:

EC000066 - Magnet contactor, AC-switching

ETIM 6:

EC000066 - Power contactor, AC switching

UNSPSC:

39121529

