

General Information

AF96-30-00-11 **Extended Product Type: Product ID:** 1SBL407001R1100 EAN: 3471523133211

Catalog Description: AF96-30-00-11 24-60V50/60HZ 20-60VDC Contactor

Long Description: AF96 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:** 85369085 EAN: 3471523133211

Dimensions

Product Net Depth: 116 mm 125.5 mm **Product Net Height: Product Net Weight:** 1.220 kg **Product Net Width:** 70 mm

Container Information

150 mm Package Level 1 Width: Package Level 1 Length: 150 mm Package Level 1 Height: 103 mm Package Level 1 Gross Weight: 1.34 kg Package Level 1 EAN: 3471523133211 Package Level 2 Units: 8 piece 250 mm Package Level 2 Width: Package Level 2 Length: 300 mm Package Level 2 Height: 300 mm Package Level 3 Units: 192 piece Package Level 1 Units: 1 piece

Technical

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

Main Circuit 690 V Rated Operational Voltage: Rated Frequency (f): Main Circuit 50 / 60 Hz

Conventional Free-air Thermal

Current (Ith):

acc. to IEC 60947-4-1, Open Contactors q = 40 °C 130 A

Rated Operational Current AC-1 (Ie): (690 V) 40 °C 130 A (690 V) 60 °C 105 A

(690 V) 70 °C 90 A

Rated Operational Current AC-3 (I_B): (220 / 230 / 240 V) 60 °C 96 A

(380 / 400 V) 60 °C 96 A (415 V) 60 °C 96 A (440 V) 60 °C 96 A (500 V) 60 °C 80 A (690 V) 60 °C 57 A (1000 V) 60 °C 30 A

Rated Operational Power AC-3 (Pe): (220 / 230 / 240 V) 25 kW

(380 / 400 V) 45 kW

(400 V) 45 kW

(415 V) 55 kW (440 V) 55 kW (500 V) 55 kW (690 V) 55 kW

Rated Short-time Withstand Current at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 780 A

(I_{cw}):

at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A

Maximum Breaking Capacity:

cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1150 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 750 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 (Ui):

acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V

Rated Impulse Withstand Voltage

(U_{imp}):

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 6...50 mm²

Flexible with Ferrule 1/2x 6...50 mm²

Rigid 1x 6...70 mm² Rigid 2x 6...50 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: Main Circuit 17 mm

acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10

Terminal Type: Screw Terminals

Number of Main Contacts NO:

Environmental

Degree of Protection:

Climatic Withstand: Category B according to IEC 60947-1 Annex Q

Maximum Operating Altitude

Permissible:

3000 m

Resistance to Vibrations acc. to IEC $\, 5 \dots 300 \, \text{Hz} \, 3 \, \text{g}$ closed position / $3 \, \text{g}$ open position

60068-2-6:

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

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 7-1/2 Hp

(240 V AC) Single Phase 20 Hp (200 ... 208 V AC) Three Phase 30 Hp (220 ... 240 V AC) Three Phase 30 Hp (440 ... 480 V AC) Three Phase 60 Hp (550 ... 600 V AC) Three Phase 75 Hp

Tightening Torque UL/CSA:

Control Circuit 11 in·lb Main Circuit 53 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-77417M1 CCC 2013010304646569 **CCC Certificate:** Data Sheet, Technical Information: 1SBC100173C0201

Declaration of Conformity - CE:1SBD250000U1000DNV 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

UL_E312527

Classifications

E-nummer:3210055ETIM 4:EC000066 - Magnet contactor, AC-switchingETIM 5:EC000066 - Magnet contactor, AC-switchingETIM 6:EC000066 - Power contactor, AC switchingUNSPSC:39121529Object Classification Code:Q

