

General Information

 Extended Product Type:
 AF65-30-11-12

 Product ID:
 1SBL387001R1211

 EAN:
 3471523132726

Catalog Description: AF65-30-11-12 48-130V50/60HZ-DC Contactor

Long Description: AF65 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: 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

 Minimum Order Quantity:
 1 piece

 Customs Tariff Number:
 85369085

 EAN:
 3471523132726

Dimensions

Product Net Depth: 111 mm

Product Net Height: 125.5 mm

Product Net Weight: 1.010 kg

Product Net Width: 67 mm

Container Information

150 mm Package Level 1 Width: Package Level 1 Length: 150 mm 97 mm Package Level 1 Height: Package Level 1 Gross Weight: 1.11 kg 3471523132726 Package Level 1 EAN: 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 Package Level 1 Units: 1 piece

Technical

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 (Ie): (690 V) 40 °C 105 A

(690 V) 60 °C 90 A (690 V) 70 °C 80 A

Rated Operational Current AC-3 (I_e): (220 / 230 / 240 V) 60 °C 65 A

(380 / 400 V) 60 °C 65 A (415 V) 60 °C 65 A (440 V) 60 °C 65 A (500 V) 60 °C 55 A

(690 V) 60 °C 39 A Rated Operational Power AC-3 (Pe): (220 / 230 / 240 V) 18.5 kW (380 / 400 V) 30 kW (400 V) 30 kW (415 V) 37 kW (440 V) 37 kW (500 V) 37 kW (690 V) 37 kW **Rated Operational Current AC-15** (220 / 240 V) 4 A (24 / 127 V) 6 A (l_e): (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 at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A (I_{cw}): 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** AC-1 600 cycles per hour Frequency: 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** (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (l_e): (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_{imp}): **Maximum Mechanical Switching** 3600 cycles per hour Frequency: Rated Control Circuit Voltage (Uc): 50 Hz 48 ... 130 V 60 Hz 48 ... 130 V DC Operation 48 ... 130 V Between Coil De-energization and NC Contact Closing 19 ... 105 ms **Operate Time:** 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 4...35 mm² Flexible with Ferrule 1/2x 4...35 mm² Rigid 1/2x 6...35 mm² **Connecting Capacity Auxiliary** Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Circuit: 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 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 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 **Number of Main Contacts NO: Environmental Climatic Withstand:** Category B according to IEC 60947-1 Annex Q **Maximum Operating Altitude** 3000 m Permissible:

Resistance to Vibrations acc. to IEC 5 ... 300 Hz 3 g closed position / 3 g open position 60068-2-6:

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

Ambient Air Temperature: Close to Contactor for Storage -60...+80 °C

Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 $^{\circ}$ C Close to Contactor without Thermal O/L Relay -40 ... +70 $^{\circ}$ C

Technical UL/CSA

Horsepower Rating UL/CSA: (120 V AC) Single Phase 5 Hp

(240 V AC) Single Phase 15 Hp (200 ... 208 V AC) Three Phase 20 Hp (220 ... 240 V AC) Three Phase 25 Hp (440 ... 480 V AC) Three Phase 50 Hp (550 ... 600 V AC) Three Phase 60 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)

Instructions and Manuals: 1SBC101036M6801

ABS Certificate: ABS_15-GE1349500-PDA_90682247

 BV Certificate:
 BV_2634H36994A

 CB Certificate:
 CB_SE_77418

 CCC Certificate:
 CCC_2012010304589737

 Data Sheet, Technical Information:
 1SBC100173C0201

 Declaration of Conformity - CE:
 1SBD250000U1000

 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

Classifications

ETIM 4: EC000066 - Magnet contactor, AC-switching

ETIM 5: EC000066 - Magnet contactor, AC-switching

ETIM 6: EC000066 - Power contactor, AC switching

UNSPSC: 39121529

Object Classification Code: Q

