

Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

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| Extended Product Type: | AF26-30-00-12 |
| Product ID: | 1SBL237001R1200 |
| EAN: | 3471523110922 |
| Catalog Description: | AF26-30-00-12 48-130V50/60HZ-DC Contactor |
| Long Description: | AF26 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 $U_c \text{ min} \dots U_c \text{ max}$. 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. |

Additional Information

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| ABB Industrial IT Suite: | Control IT |
| ABS Certificate: | ABS_15-GE1349500-PDA_90682247 |
| 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 |
| Block Contactor Type: | 3-Pole Contactor |
| CB Certificate: | CB_SE_70856M1 |
| CCC Certificate: | CCC_2010010304445623 |
| Climatic Withstand: | Category B according to IEC 60947-1 Annex Q |
| Coil Voltage Code: | 12 |
| Connecting Capacity Control Circuit: | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid 1/2x 1 ... 2.5 mm ² |
| Connecting Capacity Main Circuit: | Flexible with Insulated Ferrule 1x 1.5...10 mm ² Flexible with Insulated Ferrule 2x 1.5...4 mm ² Flexible with Ferrule 1/2x 1.5...10 mm ² Rigid 1/2x 2.5...10 mm ² |
| Conventional Free-air Thermal Current (I_{th}): | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 50 A |
| Country of Origin: | France (FR) |
| Customs Tariff Number: | 85364900 |
| Data Sheet, Technical Information: | 1SBC101410D0201 |
| Declaration of Conformity - CE: | 1SBD250000U1000 |
| 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 |
| E-number: | 3211377 |
| EAC Certificate: | EAC_RU C-FR ME77 B01010 |
| EAN: | 3471523110922 |
| EPLAN Catalog Tree: | Electrical engineering / Relays, contactors / Contactors |
| EPLAN Function Definition: | Coil / Coil, 2 connection points / Coil for power contactor A1_A2 NO contact / NO contact, 2 connection points / Power NO contact 1_2 NO contact / NO contact. 2 connection points / Power NO contact 3 4 |

NO contact / NO contact, 2 connection points / Power NO contact 5_6

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| EPLAN Macro: | 9AKK106930A0699 |
| ETIM 4: | EC000066 - Magnet contactor, AC-switching |
| ETIM 5: | EC000066 - Magnet contactor, AC-switching |
| ETIM 6: | EC000066 - Power contactor, AC switching |
| Environmental Information: | 1SBD250149E1000 |
| Full Load Amps Motor Use: | (120 V AC) Single Phase 24 A (240 V AC) Single Phase 17 A (200 ... 208 V AC) Three Phase 25.3 A (220 ... 240 V AC) Three Phase 22 A (440 ... 480 V AC) Three Phase 21 A (550 ... 600 V AC) Three Phase 22 A |
| GOST Certificate: | GOST_POCCFR.ME77.B07175.pdf |
| General Use Rating UL/CSA: | (600 V AC) 45 A |
| Horsepower Rating UL/CSA: | (120 V AC) Single Phase 2 Hp (240 V AC) Single Phase 3 Hp (200 ... 208 V AC) Three Phase 7-1/2 Hp (220 ... 240 V AC) Three Phase 7-1/2 Hp (440 ... 480 V AC) Three Phase 15 Hp (550 ... 600 V AC) Three Phase 20 Hp |
| IIT Publishing Status: | Level 0 - Information enabled |
| Industrial IT Certification Level: | 0 |
| Instructions and Manuals: | 1SBC101027M6801 |
| Invoice Description: | AF26-30-00-12 48-130V50/60HZ-DC Contactor |
| LR Certificate: | LRS_1300087E1 |
| Low Coil Consumption: | No |
| Maximum Breaking Capacity: | cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for I _e > 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 |
| Maximum Mechanical Switching Frequency: | 3600 cycles per hour |
| Maximum Operating Altitude Permissible: | 3000 m |
| Minimum Order Quantity: | 1 piece |
| Mounted Auxiliary Contacts: | 0 NO, 0 NC |
| Mounted Auxiliary Contacts 1st Stack: | 0 NO, 0 NC |
| Mounted Auxiliary Contacts 2nd Stack: | 0 NO, 0 NC |
| Mounting Position: | Max. N.C. built-in and add-on N.C. auxiliary contacts: see accessory fitting details for a 3-pole contactor AF09 ... AF38 |
| Mounting Positions: | 1SBC500297F0000 |
| Number of Auxiliary Contacts NC: | 0 |
| Number of Auxiliary Contacts NO: | 0 |
| Number of Main Contacts NC: | 0 |
| Number of Main Contacts NO: | 3 |
| Object Classification Code: | Q |
| 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 |
| Order Multiple: | 1 piece |
| Package Level 1 EAN: | 3471523110922 |
| Package Level 1 Gross Weight: | 0.31 kg |

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| Package Level 1 Height: | 47 mm |
| Package Level 1 Length: | 87 mm |
| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 87 mm |
| Package Level 2 Height: | 315 mm |
| Package Level 2 Length: | 300 mm |
| Package Level 2 Units: | 45 piece |
| Package Level 2 Width: | 250 mm |
| Package Level 3 Units: | 1080 piece |
| Power Loss: | at Rated Operating Conditions AC-1 per Pole 1.8 W at Rated Operating Conditions AC-3 per Pole 0.6 W |
| Product Main Type: | AF26 |
| Product Name: | Block Contactor |
| Product Net Depth: | 86 mm |
| Product Net Height: | 86 mm |
| Product Net Weight: | 0.310 kg |
| Product Net Width: | 45 mm |
| Product Packing Type: | Box |
| RINA Certificate: | RINA_ELE084013XG |
| RMRS Certificate: | RMRS_1400682124 |
| Rated Control Circuit Voltage (U_c): | 50 Hz 48 ... 130 V 60 Hz 48 ... 130 V DC Operation 48 ... 130 V |
| Rated Frequency (f): | Main Circuit 50 / 60 Hz |
| Rated Impulse Withstand Voltage (U_{imp}): | 6 kV |
| Rated Insulation Voltage (U_i): | acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V |
| Rated Operational Current AC-1 (I_e): | (690 V) 40 °C 45 A (690 V) 60 °C 40 A (690 V) 70 °C 32 A |
| Rated Operational Current AC-3 (I_e): | (220 / 230 / 240 V) 60 °C 26 A (380 / 400 V) 60 °C 26 A (415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A |
| Rated Operational Power AC-3 (P_e): | (220 / 230 / 240 V) 6.5 kW (380 / 400 V) 11 kW (400 V) 11 kW (415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 15 kW |
| Rated Operational Voltage: | Main Circuit 690 V |
| Rated Short-time Withstand Current (I_{cw}): | 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 |
| Resistance to Shock acc. to IEC 60068-2-27: | 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 |

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| Resistance to Vibrations acc. to IEC 60068-2-6: | 5 ... 300 Hz 4 g closed position / 2 g open position |
| RoHS Date: | 20090609 |
| RoHS Information: | 1SBD251012E1001 |
| RoHS Status: | Following EU Directive 2011/65/EC |
| Selling Unit of Measure: | piece |
| Short Description: | AF26-30-00-12 48-130V50/60HZ-DC Contactor |
| Standards: | IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14 |
| Terminal Type: | Screw Terminals |
| Tightening Torque: | Control Circuit 1.2 N·m Main Circuit 2.5 N·m |
| Tightening Torque UL/CSA: | Control Circuit 11 in·lb Main Circuit 22 in·lb |
| UL Certificate: | UL_20140305-E312527_7_1 |
| UL Listing Card: | UL_E312527 |
| UNSPSC: | 39121529 |
| Wire Stripping Length: | Control Circuit 10 mm Main Circuit 14 mm |
| DNV GL Certificate: | DNV-GL_E13871 |

