



 PRODUCT-DETAILS

AF38-30-00-11

AF38-30-00-11 24-60V50/60HZ 20-60VDC Contactor



General Information

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| Extended Product Type | AF38-30-00-11 |
| Product ID | 1SBL297001R1100 |
| EAN | 3471523111516 |
| Catalog Description | AF38-30-00-11 24-60V50/60HZ 20-60VDC Contactor |

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| Long Description | <p>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 U_c min. ... U_c 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. Note: AF..-30-..-11 not suitable for a direct control by PLC-output. AF..-30-..-11 contactor type available in some countries: please consult your ABB representative.</p> |
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Classifications

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| Object Classification Code | Q |
| ETIM 4 | EC000066 - Magnet contactor, AC-switching |
| ETIM 5 | EC000066 - Magnet contactor, AC-switching |
| ETIM 6 | EC000066 - Power contactor, AC switching |

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| ETIM 7 | EC000066 - Power contactor, AC switching |
| E-Number (Sweden) | 3211346 |

Container Information

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| Package Level 1 Units | box 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 | 0.31 kg |
| Package Level 1 EAN | 3471523111516 |
| Package Level 2 Units | box 21 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 | 13.95 kg |
| Package Level 3 Units | 1080 piece |

Certificates and Declarations (Document Number)

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|--------------------------------|-------------------------------|
| ABS Certificate | ABS_15-GE1349500-PDA_90682247 |
| BV Certificate | BV_2634H24898B0 |
| CB Certificate | CB_SE-96552 |
| CCC Certificate | CCC_2010010304445623 |
| cUL Certificate | UL_20180227_E312527_7_1 |
| Declaration of Conformity - CE | 1SBD250000U1000 |
| DNV Certificate | DNV-GL_TAE00001AF-3 |
| DNV GL Certificate | DNV-GL_TAE00001AF-3 |
| EAC Certificate | EAC_RU C-FR ME77 B03597 |
| Environmental Information | 1SBD250149E1000 |
| GL Certificate | DNV-GL_TAE00001AF-3 |
| GOST Certificate | GOST_POCCFR.ME77.B07175.pdf |
| Instructions and Manuals | 1SBC101027M6801 |
| KC Certificate | KC_HW02016-15001C |
| LR Certificate | LRS_1300087E1 |
| RINA Certificate | RINA_ELE240318XG |
| RMRS Certificate | RMRS_1802705280 |
| RoHS Information | 1SBD250000U1000 |
| UL Certificate | UL_20140305-E312527_7_1 |
| UL Listing Card | E312527 |

Technical UL/CSA

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| General Use Rating UL/CSA | (600 V AC) 50 A |
| Horsepower Rating UL/CSA | (220 ... 240 V AC) Three Phase 10 hp (440 ... 480 V AC) Three Phase 25 hp (550 ... 600 V AC) Three Phase 30 hp (120 V AC) Single Phase 2 hp (200 ... 208 V AC) Three Phase 10 hp (240 V AC) Single Phase 5 hp |
| Tightening Torque | Control Circuit 11 IA |

UL/CSA

Main Circuit 22 IA

Environmental

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| Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C Close to Contactor without Thermal O/L Relay -40 ... +70 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 °C |
| Climatic Withstand | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude Permissible | 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 4 g closed position / 2 g open position |
| Resistance to Shock acc. to IEC 60068-2-27 | Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40 |
| RoHS Status | Following EU Directive 2011/65/EU |

Technical

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| 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 (I _{th}) | 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 _e) | (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 _e) | (220 / 230 / 240 V) 11 kW (380 / 400 V) 18.5 kW (415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (400 V) 18.5 kW |
| 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 for 1 s -empty- A |
| 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 |
| Rated Insulation Voltage (U _i) | acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V |

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| Rated Impulse Withstand Voltage (U _{imp}) | 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz 24 ... 60 V 50 Hz / 60 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 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 | Rigid 1/2x 2.5 ... 10 m ² Flexible with Ferrule 1/2x 1.5 ... 10 m ² Flexible with Insulated Ferrule 1x 1.5 ... 10 m ² Flexible with Insulated Ferrule 2x 1.5 ... 4 m ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 m ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 m ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 m ² Rigid 1/2x 1 ... 2.5 m ² |
| 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 |

Dimensions

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| Product Net Width | 45 mm |
| Product Net Depth / Length | 86 mm |
| Product Net Height | 86 mm |
| Product Net Weight | 0.31 kg |

Popular Downloads

| | |
|--------------------------|-----------------|
| Instructions and Manuals | 1SBC101027M6801 |
|--------------------------|-----------------|

Ordering

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| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Categories

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





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