

PRODUCT-DETAILS

AF65-30-11-13 AF65-30-11-13 100-250V50/60HZ-DC Contactor



General Information

| Extended Product Type | AF65-30-11-13 |
|-----------------------|---|
| Product ID | 1SBL387001R1311 |
| EAN | 3471523132733 |
| Catalog Description | AF65-30-11-13 100-250V50/60HZ-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 24500 V 50/60 Hz or 20500 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. AF30 11 not suitable for a direct control by PLC-output. |

| Classifications | |
|-------------------------------|---|
| 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 |

| ETIM 7 | EC000066 - Power contactor, AC switching |
|--------|--|
| UNSPSC | 39121529 |

| Container Information | |
|-----------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 150 mm |
| Package Level 1 Depth / Length | 150 mm |
| Package Level 1 Height | 97 mm |
| Package Level 1 Gross Weight | 1.09 kg |
| Package Level 1 EAN | 3471523132733 |
| Package Level 2 Units | box 10 piece |
| Package Level 2 Width | 250 mm |
| Package Level 2 Depth / Length | 300 mm |
| Package Level 2 Height | 300 mm |
| Package Level 2 Gross Weight | 10.9 kg |
| Package Level 3 Units | 240 piece |

| ABS Certificate | ABS_15-GE1349500-PDA_90682247 |
|-----------------------------------|--|
| BV Certificate | BV_2634H36994A |
| CB Certificate | CB_SE_77418 |
| CCC Certificate | CCC_2012010304589737 CCC_2015010304824714 |
| 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 | 1SBD250168E1000 |
| GL Certificate | DNV-GL_TAE00001AF-3 |
| Instructions and Manuals | 1SBC101036M6801 |
| KC Certificate | KC_HW02016-15003A |
| LR Certificate | LRS_1300087E1 |
| RINA Certificate | RINA_ELE084013XG |
| RMRS Certificate | RMRS_1802705280 |
| RoHS Information | 1SBD250000U1000 |
| UL Certificate | UL_20130926-E312527_14_1 |
| UL Listing Card | UL_E312527 |

| Technical UL/CSA | |
|-------------------|----------------------------------|
| Horsepower Rating | (220 240 V AC) Three Phase 25 hp |
| UL/CSA | (440 480 V AC) Three Phase 50 hp |
| | (550 600 V AC) Three Phase 60 hp |
| | (120 V AC) Single Phase 5 hp |
| | (200 208 V AC) Three Phase 20 hp |
| | (240 V AC) Single Phase 15 hp |
| Tightening Torque | Auxiliary Circuit 11 IA |
| UL/CSA | Control Circuit 11 IA |
| | Main Circuit 35 IA |

| Environmental | |
|---|--|
| 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 3 g closed position / 3 g open position |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: A 25 K40 Closed, Shock Direction: B1 25 K40 Closed, Shock Direction: B2 15 K40 Closed, Shock Direction: C1 25 K40 Closed, Shock Direction: C2 25 K40 Open, Shock Direction: B1 5 K40 |
| RoHS Status | Following EU Directive 2011/65/EU |

| Technical | |
|---|--|
| Number of Main Contacts NO | 3 |
| 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 60947-5-1, q = 40 °C 16 A acc. to IEC 60947-4-1, Open Contactors q = 40 °C 105 A |
| Rated Operational Current AC-1 (I _e) | (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 (P _e) | (220 / 230 / 240 V) 18.5 KWT (380 / 400 V) 30 KWT (415 V) 37 KWT (440 V) 37 KWT (500 V) 37 KWT (690 V) 37 KWT (400 V) 30 KWT |
| Rated Operational Current AC-15 (I _e) | (200 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 A |
| Rated Short-time Withstand Current (I _{cw}) | 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 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 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A for 0.1 s 140 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 Frequency | AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour |

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| | AC-15 1200 cycles per hour DC-13 900 cycles per hour |
|--|---|
| Rated Operational Current DC-13 (I _e) | (125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W |
| Rated Insulation Voltage | (600 V) 0.1 A / 60 W acc. to UL/CSA 600 V acc. to UL/CSA 600 V |
| (U _i) Rated Impulse Withstand Voltage (U _{imp}) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz 100 250 V 50 Hz / 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 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 | Rigid 1/2x 6 3 5 m² Flexible with Ferrule 1/2x 4 35 m² Flexible with Insulated Ferrule 1/2x 4 35 m² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1/2x 0.75 2.5 Flexible with Insulated Ferrule 2x 0.75 1.5 Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 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 | 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 |

| Dimensions | |
|-------------------------------|----------|
| Product Net Width | 67 mm |
| Product Net Depth / Length | 111 mm |
| Product Net Height | 125.5 mm |
| Product Net Weight | 0.99 kg |

| Popular Downloads | |
|------------------------------------|-----------------|
| Instructions and Manuals | 1SBC101036M6801 |
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| | |
| Ordering | |
| Ordering Minimum Order Quantity | 1 piece |

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

