PRODUCT-DETAILS

# AF26Z-30-00-22

## AF26Z-30-00-22 48-130V50/60HZ-DC Contactor



### General Information

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| Extended Product Type | AF26Z-30-00-22 |
| Product ID | 1SBL236001R2200 |
| EAN | 3471523114128 |
| Catalog Description | AF26Z-30-00-22 48-130V50/60HZ-DC Contactor |
| Long Description | The AF26Z-30-00-22 is a 3 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 11 kW / 400 V AC (AC-3) or 15 hp / 480 V UL and switching power circuits up to 45 A (AC-1) or 45 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (48-130 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. |

### Ordering

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| Minimum Order Quantity | 1 piece |

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## Popular Downloads

| | |
|---|---|
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Instructions and Manuals | 1SBC101027M6801 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

## Dimensions

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| Product Net Width | 45 mm |
| Product Net Depth / Length | 86 mm |
| Product Net Height | 86 mm |
| Product Net Weight | 0.35 kg |

## 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/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1 |
| Rated Operational Voltage | Main Circuit 690 V |
| Rated Frequency (f) | Control Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current ($I_{th}$) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 50 A |
| Rated Operational Current AC-1 ($I_e$) | (690 V) 40 °C 45 A<br>(690 V) 60 °C 40 A<br>(690 V) 70 °C 32 A |
| Rated Operational Current AC-3 ($I_e$) | (415 V) 60 °C 26 A<br>(440 V) 60 °C 26 A<br>(500 V) 60 °C 23 A<br>(690 V) 60 °C 17 A<br>(380 / 400 V) 60 °C 26 A<br>(220 / 230 / 240 V) 60 °C 26 A |
| Rated Operational Current AC-3e ($I_e$) | (415 V) 60 °C 26 A<br>(440 V) 60 °C 26 A<br>(500 V) 60 °C 23 A<br>(690 V) 60 °C 17 A<br>(380 / 400 V) 60 °C 26 A<br>(220 / 230 / 240 V) 60 °C 26 A |
| Rated Operational Power AC-3 ($P_e$) | (400 V) 11 kW<br>(415 V) 11 kW<br>(440 V) 15 kW<br>(500 V) 15 kW<br>(690 V) 15 kW<br>(380 / 400 V) 11 kW<br>(220 / 230 / 240 V) 6.5 kW |
| Rated Operational Power AC-3e ($P_e$) | (415 V) 11 kW<br>(440 V) 15 kW<br>(500 V) 15 kW<br>(690 V) 15 kW<br>(380 / 400 V) 11 kW<br>(220 / 230 / 240 V) 6.5 kW |

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| Rated Short-time Withstand Current Low Voltage ($I_{cw}$) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 500 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 200 A |
| Maximum Electrical Switching Frequency | (AC-1) 600 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 1200 cycles per hour |
| Rated Operational Current DC-1 ($I_e$) | (110 V) 2 Poles in Series, 40 °C 45 A<br>(110 V) 2 Poles in Series, 60 °C 40 A<br>(110 V) 2 Poles in Series, 70 °C 32 A<br>(110 V) 3 Poles in Series, 40 °C 45 A<br>(110 V) 3 Poles in Series, 60 °C 40 A<br>(110 V) 3 Poles in Series, 70 °C 32 A<br>(220 V) 3 Poles in Series, 40 °C 45 A<br>(220 V) 3 Poles in Series, 60 °C 40 A<br>(220 V) 3 Poles in Series, 70 °C 32 A<br>(72 V) 1-Pole, 40 °C 45 A<br>(72 V) 1-Pole, 60 °C 40 A<br>(72 V) 1-Pole, 70 °C 32 A<br>(72 V) 2 Poles in Series, 40 °C 45 A<br>(72 V) 2 Poles in Series, 60 °C 40 A<br>(72 V) 2 Poles in Series, 70 °C 32 A<br>(72 V) 3 Poles in Series, 40 °C 45 A<br>(72 V) 3 Poles in Series, 60 °C 40 A<br>(72 V) 3 Poles in Series, 70 °C 32 A |
| Rated Operational Current DC-3 ($I_e$) | (110 V) 2 Poles in Series, 40 °C 45 A<br>(110 V) 2 Poles in Series, 60 °C 40 A<br>(110 V) 2 Poles in Series, 70 °C 32 A<br>(110 V) 3 Poles in Series, 40 °C 45 A<br>(110 V) 3 Poles in Series, 60 °C 40 A<br>(110 V) 3 Poles in Series, 70 °C 32 A<br>(220 V) 3 Poles in Series, 40 °C 45 A<br>(220 V) 3 Poles in Series, 60 °C 40 A<br>(220 V) 3 Poles in Series, 70 °C 32 A<br>(72 V) 1-Pole, 40 °C 45 A<br>(72 V) 1-Pole, 60 °C 40 A<br>(72 V) 1-Pole, 70 °C 32 A<br>(72 V) 2 Poles in Series, 40 °C 45 A<br>(72 V) 2 Poles in Series, 60 °C 40 A<br>(72 V) 2 Poles in Series, 70 °C 32 A<br>(72 V) 3 Poles in Series, 40 °C 45 A<br>(72 V) 3 Poles in Series, 60 °C 40 A<br>(72 V) 3 Poles in Series, 70 °C 32 A |
| Rated Operational Current DC-5 ($I_e$) | (110 V) 2 Poles in Series, 40 °C 45 A<br>(110 V) 2 Poles in Series, 60 °C 40 A<br>(110 V) 2 Poles in Series, 70 °C 32 A<br>(110 V) 3 Poles in Series, 40 °C 45 A<br>(110 V) 3 Poles in Series, 60 °C 40 A<br>(110 V) 3 Poles in Series, 70 °C 32 A<br>(220 V) 3 Poles in Series, 40 °C 20 A<br>(220 V) 3 Poles in Series, 60 °C 20 A<br>(220 V) 3 Poles in Series, 70 °C 20 A<br>(72 V) 1-Pole, 40 °C 20 A<br>(72 V) 1-Pole, 60 °C 20 A<br>(72 V) 1-Pole, 70 °C 20 A<br>(72 V) 2 Poles in Series, 40 °C 45 A<br>(72 V) 2 Poles in Series, 60 °C 40 A<br>(72 V) 2 Poles in Series, 70 °C 32 A<br>(72 V) 3 Poles in Series, 40 °C 45 A<br>(72 V) 3 Poles in Series, 60 °C 40 A<br>(72 V) 3 Poles in Series, 70 °C 32 A |
| Rated Insulation Voltage ($U_i$) | acc. to IEC 60947-4-1 690 V<br>acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 6 kV |

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| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage ($U_c$) | 50 Hz 48 ... 130 V<br>60 Hz 48 ... 130 V<br>DC Operation 48 ... 130 V |
| Operate Time | Between Coil De-energization and NC Contact Closing 13 ... 98 ms<br>Between Coil De-energization and NO Contact Opening 11 ... 95 ms<br>Between Coil Energization and NC Contact Opening 38 ... 90 ms<br>Between Coil Energization and NO Contact Closing 40 ... 95 ms |
| Mounting on DIN Rail | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 |
| Mounting by Screws (not supplied) | 2 x M4 screws placed diagonally |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 1.5 ... 10 mm²<br>Flexible with Insulated Ferrule 1x 1.5 ... 10 mm²<br>Flexible with Insulated Ferrule 2x 1.5 ... 4 mm²<br>Rigid Solid 1/2x 2.5 ... 4 mm²<br>Rigid Stranded 1/2x 2.5 ... 10 mm² |
| Connecting Capacity Control Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²<br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm²<br>Rigid Solid 1/2x 1 ... 2.5 mm²<br>Rigid Stranded 1/2x 1 ... 2.5 mm² |
| Wire Stripping Length | Control Circuit 10 mm<br>Main Circuit 14 mm |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20 |
| Terminal Type | Screw Terminals |

## Technical UL/CSA

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| NEMA Size | 1 |
| Continuous Current Rating NEMA | 27 A |
| Horsepower Rating NEMA | (115 V AC) Single Phase 2 Hp<br>(200 V AC) Three Phase 7-1/2 Hp<br>(230 V AC) Single Phase 3 Hp<br>(230 V AC) Three Phase 7-1/2 Hp<br>(460 V AC) Three Phase 10 Hp<br>(575 V AC) Three Phase 10 Hp |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| General Use Rating UL/CSA | (600 V AC) 45 A |
| Horsepower Rating UL/CSA | (120 V AC) Single Phase 2 hp<br>(200 ... 208 V AC) Three Phase 7-1/2 hp<br>(220 ... 240 V AC) Three Phase 7-1/2 hp<br>(240 V AC) Single Phase 3 hp<br>(440 ... 480 V AC) Three Phase 15 hp<br>(550 ... 600 V AC) Three Phase 20 hp |
| Connecting Capacity Main Circuit UL/CSA | Rigid Solid 1/2x 14-10 AWG<br>Rigid Stranded 1/2x 14-8 AWG |
| Connecting Capacity Control Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 AWG |
| Tightening Torque UL/CSA | Control Circuit 11 in·lb<br>Main Circuit 22 in·lb |

## Environmental

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| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C<br>Close to Contactor without Thermal O/L Relay -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C |

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| Climatic Withstand | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude Permissible | Without Derating 3000 m |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: B1 25 g<br>Open, Shock Direction: B1 5 g<br>Shock Direction: A 30 g<br>Shock Direction: B2 15 g<br>Shock Direction: C1 25 g<br>Shock Direction: C2 25 g |
| Resistance to Vibrations | 4g Closed Position & 2g Open position 5 ... 300 Hz |

## Material Compliance

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| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Information | 2CMT2021-006277 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA | 2CMT2023-006525 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

## ABB EcoSolutions

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| Environmental Product Declaration - EPD | 1SBD250584E4000<br>2TFP200036A1001 |

## Certificates and Declarations

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|---|---|
| ABS Certificate | ABS_20-2060694-PDA |
| BV Certificate | BV_2634H24898C0 |
| CB Certificate | CB_SE-112316 |
| CCC Certificate | CCC_2010010304445623 |
| CQC Certificate | CQC2010010304445623<br>CQC2020010304294316 |
| Declaration of Conformity - CCC | 2020980304001254<br>2020980304001052 |
| Declaration of Conformity - CE | 1SBD250000U1000 |
| Declaration of Conformity - UKCA | 1SBD250031U1000 |
| DNV Certificate | DNV_TAE00001AF-4 |
| GOST Certificate | GOST_POCCFR.ME77.B07175.pdf |
| KC Certificate | KC_HW02016-15001C |
| LR Certificate | LRS_LR23403517TA-02 |
| RINA Certificate | RINA_ELE142224XG |
| RMRS Certificate | RMRS_1802705280 |
| UL Certificate | UL-US-2150887-5<br>UL-CA-2142658-5 |
| UL Listing Card | E312527 |

## 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 | 0.35 kg |
| Package Level 1 EAN | 3471523114128 |
| 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 | 15.75 kg |
| Package Level 3 Units | 1080 piece |

## Classifications

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|---|---|
| Object Classification Code | Q |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| ETIM 9 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4758 >> Iec Contactors |
| E-Number (Finland) | 3706274 |

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF26



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