



PRODUCT-DETAILS

# AF12ZB-30-10-22

## AF12ZB-30-10-22 48-130V50/60HZ-DC

### Contactors



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF12ZB-30-10-22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product ID            | 1SBL156061R2210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EAN                   | 3471523123724                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Catalog Description   | AF12ZB-30-10-22 48-130V50/60HZ-DC Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Long Description      | The AF12ZB-30-10-22 is a 3 pole - 690 V IEC or 600 UL contactor with 1 built-in auxiliary contact and screw terminals, controlling motors up to 5.5 kW / 400 V AC (AC-3) or 7-1/2 hp / 480 V UL and switching power circuits up to 28 A (AC-1) or 28 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               |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85364900 |

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100220C0201 |
| Instructions and Manuals          | 1SBC101027M6801 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

| Dimensions                 |         |
|----------------------------|---------|
| Product Net Width          | 45 mm   |
| Product Net Depth / Length | 77 mm   |
| Product Net Height         | 86 mm   |
| Product Net Weight         | 0.31 kg |

| Technical                                                |                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts NO                               | 3                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of Main Contacts NC                               | 0                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of Auxiliary Contacts NO                          | 1                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of Auxiliary Contacts NC                          | 0                                                                                                                                                                                                                                                                                                                                                                                                       |
| Standards                                                | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60335-2-40 LZGH2 A2L, UL 60947-4-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-4-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives. |
| Rated Operational Voltage                                | Auxiliary Circuit 690 V<br>Main Circuit 690 V                                                                                                                                                                                                                                                                                                                                                           |
| Rated Frequency (f)                                      | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz                                                                                                                                                                                                                                                                                                                   |
| Conventional Free-air Thermal Current (I <sub>th</sub> ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ }^{\circ}\text{C}$ 35 A<br>acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A                                                                                                                                                                                                                                                  |
| Rated Operational Current AC-1 (I <sub>e</sub> )         | (690 V) 40 °C 28 A<br>(690 V) 60 °C 28 A<br>(690 V) 70 °C 24 A                                                                                                                                                                                                                                                                                                                                          |
| Rated Operational Current AC-3 (I <sub>e</sub> )         | (415 V) 60 °C 12 A<br>(440 V) 60 °C 12 A<br>(500 V) 60 °C 12.5 A<br>(690 V) 60 °C 9 A<br>(380 / 400 V) 60 °C 12 A<br>(220 / 230 / 240 V) 60 °C 12 A                                                                                                                                                                                                                                                     |
| Rated Operational Current AC-3e (I <sub>e</sub> )        | (415 V) 60 °C 12 A<br>(440 V) 60 °C 12 A<br>(500 V) 60 °C 12.5 A<br>(690 V) 60 °C 9 A<br>(380 / 400 V) 60 °C 12 A<br>(220 / 230 / 240 V) 60 °C 12 A                                                                                                                                                                                                                                                     |
| Rated Operational Power AC-3 (P <sub>e</sub> )           | (415 V) 5.5 kW<br>(440 V) 5.5 kW<br>(500 V) 7.5 kW<br>(690 V) 7.5 kW<br>(380 / 400 V) 5.5 kW<br>(220 / 230 / 240 V) 3 kW                                                                                                                                                                                                                                                                                |
| Rated Operational Power                                  | (415 V) 5.5 kW                                                                                                                                                                                                                                                                                                                                                                                          |

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| AC-3e (P <sub>e</sub> )                                                 | (440 V) 5.5 kW<br>(500 V) 7.5 kW<br>(690 V) 7.5 kW<br>(380 / 400 V) 5.5 kW<br>(220 / 230 / 240 V) 3 kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rated Operational<br>Current AC-15 (I <sub>e</sub> )                    | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(400 / 440 V) 3 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Short-time<br>Withstand Current Low<br>Voltage (I <sub>cw</sub> ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A<br>for 0.1 s 140 A<br>for 1 s 100 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum Breaking<br>Capacity                                            | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 250 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 106 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum Electrical<br>Switching Frequency                               | (AC-1) 600 cycles per hour<br>(AC-15) 1200 cycles per hour<br>(AC-2 / AC-4) 300 cycles per hour<br>(AC-3) 1200 cycles per hour<br>(DC-13) 900 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated Operational<br>Current DC-1 (I <sub>e</sub> )                     | (110 V) 1-Pole, 40 °C 15 A<br>(110 V) 1-Pole, 60 °C 15 A<br>(110 V) 1-Pole, 70 °C 15 A<br>(110 V) 2 Poles in Series, 40 °C 27 A<br>(110 V) 2 Poles in Series, 60 °C 27 A<br>(110 V) 2 Poles in Series, 70 °C 24 A<br>(110 V) 3 Poles in Series, 40 °C 27 A<br>(110 V) 3 Poles in Series, 60 °C 27 A<br>(110 V) 3 Poles in Series, 70 °C 24 A<br>(220 V) 2 Poles in Series, 40 °C 15 A<br>(220 V) 2 Poles in Series, 60 °C 15 A<br>(220 V) 2 Poles in Series, 70 °C 15 A<br>(220 V) 3 Poles in Series, 40 °C 27 A<br>(220 V) 3 Poles in Series, 60 °C 27 A<br>(220 V) 3 Poles in Series, 70 °C 24 A<br>(72 V) 1-Pole, 40 °C 27 A<br>(72 V) 1-Pole, 60 °C 27 A<br>(72 V) 1-Pole, 70 °C 24 A<br>(72 V) 2 Poles in Series, 40 °C 27 A<br>(72 V) 2 Poles in Series, 60 °C 27 A<br>(72 V) 2 Poles in Series, 70 °C 24 A<br>(72 V) 3 Poles in Series, 40 °C 27 A<br>(72 V) 3 Poles in Series, 60 °C 27 A<br>(72 V) 3 Poles in Series, 70 °C 24 A |
| Rated Operational<br>Current DC-3 (I <sub>e</sub> )                     | (110 V) 1-Pole, 40 °C 7 A<br>(110 V) 1-Pole, 60 °C 7 A<br>(110 V) 1-Pole, 70 °C 7 A<br>(110 V) 2 Poles in Series, 40 °C 27 A<br>(110 V) 2 Poles in Series, 60 °C 27 A<br>(110 V) 2 Poles in Series, 70 °C 24 A<br>(110 V) 3 Poles in Series, 40 °C 27 A<br>(110 V) 3 Poles in Series, 60 °C 27 A<br>(110 V) 3 Poles in Series, 70 °C 24 A<br>(220 V) 2 Poles in Series, 40 °C 7 A<br>(220 V) 2 Poles in Series, 60 °C 7 A<br>(220 V) 2 Poles in Series, 70 °C 7 A<br>(220 V) 3 Poles in Series, 40 °C 27 A<br>(220 V) 3 Poles in Series, 60 °C 27 A<br>(220 V) 3 Poles in Series, 70 °C 24 A<br>(72 V) 1-Pole, 40 °C 27 A<br>(72 V) 1-Pole, 60 °C 27 A<br>(72 V) 1-Pole, 70 °C 24 A<br>(72 V) 2 Poles in Series, 40 °C 27 A<br>(72 V) 2 Poles in Series, 60 °C 27 A<br>(72 V) 2 Poles in Series, 70 °C 24 A<br>(72 V) 3 Poles in Series, 40 °C 27 A                                                                                       |

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  | (72 V) 3 Poles in Series, 60 °C 27 A<br>(72 V) 3 Poles in Series, 70 °C 24 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Operational<br>Current DC-5 ( $I_e$ )      | (110 V) 1-Pole, 40 °C 4 A<br>(110 V) 1-Pole, 60 °C 4 A<br>(110 V) 1-Pole, 70 °C 4 A<br>(110 V) 2 Poles in Series, 40 °C 15 A<br>(110 V) 2 Poles in Series, 60 °C 15 A<br>(110 V) 2 Poles in Series, 70 °C 15 A<br>(110 V) 3 Poles in Series, 40 °C 27 A<br>(110 V) 3 Poles in Series, 60 °C 27 A<br>(110 V) 3 Poles in Series, 70 °C 24 A<br>(220 V) 2 Poles in Series, 40 °C 4 A<br>(220 V) 2 Poles in Series, 60 °C 4 A<br>(220 V) 2 Poles in Series, 70 °C 4 A<br>(220 V) 3 Poles in Series, 40 °C 12 A<br>(220 V) 3 Poles in Series, 60 °C 12 A<br>(220 V) 3 Poles in Series, 70 °C 12 A<br>(72 V) 1-Pole, 40 °C 12 A<br>(72 V) 1-Pole, 60 °C 12 A<br>(72 V) 1-Pole, 70 °C 12 A<br>(72 V) 2 Poles in Series, 40 °C 27 A<br>(72 V) 2 Poles in Series, 60 °C 27 A<br>(72 V) 2 Poles in Series, 70 °C 24 A<br>(72 V) 3 Poles in Series, 40 °C 27 A<br>(72 V) 3 Poles in Series, 60 °C 27 A<br>(72 V) 3 Poles in Series, 70 °C 24 A |
| Rated Operational<br>Current DC-13 ( $I_e$ )     | (24 V) 6 A / 144 W<br>(48 V) 2.8 A / 134 W<br>(72 V) 1 A / 72 W<br>(110 V) 0.55 A / 60 W<br>(125 V) 0.55 A / 69 W<br>(220 V) 0.27 A / 60 W<br>(250 V) 0.27 A / 68 W<br>(400 V) 0.15 A / 60 W<br>(500 V) 0.13 A / 65 W<br>(600 V) 0.1 A / 60 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Rated Insulation Voltage<br>( $U_i$ )            | acc. to IEC 60947-4-1 690 V<br>acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Impulse<br>Withstand Voltage ( $U_{imp}$ ) | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum Mechanical<br>Switching Frequency        | 3600 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rated Control Circuit<br>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<br>supplied)             | 2 x M4 screws placed diagonally                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Connecting Capacity<br>Main Circuit              | Flexible with Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 4 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 4 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 6 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connecting Capacity<br>Auxiliary Circuit         | Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Connecting Capacity<br>Control Circuit           | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                       |                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wire Stripping Length | Auxiliary Circuit 10 mm<br>Control Circuit 10 mm<br>Main Circuit 10 mm                                                                                                                            |
| Degree of Protection  | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>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

|                                              |                                                                                                                                                                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEMA Size                                    | 0                                                                                                                                                                                                                             |
| Continuous Current Rating NEMA               | 18 A                                                                                                                                                                                                                          |
| Horsepower Rating NEMA                       | (115 V AC) Single Phase 1 Hp<br>(200 V AC) Three Phase 3 Hp<br>(230 V AC) Single Phase 2 Hp<br>(230 V AC) Three Phase 3 Hp<br>(460 V AC) Three Phase 5 Hp<br>(575 V AC) Three Phase 5 Hp                                      |
| Maximum Operating Voltage UL/CSA             | Main Circuit 600 V                                                                                                                                                                                                            |
| General Use Rating UL/CSA                    | (600 V AC) 28 A                                                                                                                                                                                                               |
| Horsepower Rating UL/CSA                     | (120 V AC) Single Phase 1 hp<br>(200 ... 208 V AC) Three Phase 3 hp<br>(220 ... 240 V AC) Three Phase 3 hp<br>(240 V AC) Single Phase 2 hp<br>(440 ... 480 V AC) Three Phase 7-1/2 hp<br>(550 ... 600 V AC) Three Phase 10 hp |
| Connecting Capacity Main Circuit UL/CSA      | Rigid Solid 1/2x 16-10 AWG<br>Rigid Stranded 1/2x 16-10 AWG                                                                                                                                                                   |
| Connecting Capacity Auxiliary Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 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                     | Auxiliary Circuit 11 in-lb<br>Control Circuit 11 in-lb<br>Main Circuit 13 in-lb                                                                                                                                               |

Environmental

|                                                 |                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Climatic Withstand                              | Category B according to IEC 60947-1 Annex Q                                                                                                                                   |
| Maximum Operating Altitude Permissible          | Without Derating 3000 m                                                                                                                                                       |
| Shock and Vibration Withstand acc. to IEC 61373 | Category 1, Class B                                                                                                                                                           |

Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| 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

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Environmental Product Declaration - EPD | 1SBD250584E3000<br>2TFP200035A1001 |
|-----------------------------------------|------------------------------------|

Certificates and Declarations

|                                  |                                    |
|----------------------------------|------------------------------------|
| A2L Certificate – UL             | 9AKK108469A4875;9AKK108469A4879    |
| CB Certificate                   | CB_SE-113345                       |
| CCC Certificate                  | CCC_2010010304445624               |
| CQC Certificate                  | CQC2010010304445624                |
| Declaration of Conformity - CCC  | 2020980304001253                   |
| Declaration of Conformity - CE   | 1SBD250002U1000                    |
| Declaration of Conformity - UKCA | 1SBD250033U1000                    |
| GOST Certificate                 | GOST_POCCFR.ME77.B07175.pdf        |
| KC Certificate                   | KC_HW02016-15005C                  |
| UL Certificate                   | UL-US-2150887-5<br>UL-CA-2142658-5 |
| UL Listing Card                  | E312527                            |

Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 87 mm         |
| Package Level 1 Depth / Length | 79 mm         |
| Package Level 1 Height         | 47 mm         |
| Package Level 1 Gross Weight   | 0.31 kg       |
| Package Level 1 EAN            | 3471523123724 |
| Package Level 2 Units          | box 27 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   | 16.74 kg      |
| Package Level 3 Units          | 1296 piece    |

Classifications

|                            |                                          |
|----------------------------|------------------------------------------|
| 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 |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF12

