

PRODUCT-DETAILS

AF16Z-22-00-30

AF16Z-22-00-30 24VDC Contactor



General Information

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|-----------------------|--------------------------------|
| Extended Product Type | AF16Z-22-00-30 |
| Product ID | 1SBL176501R3000 |
| EAN | 3471523116795 |
| Catalog Description | AF16Z-22-00-30 24VDC Contactor |

Long Description

The AF16Z-22-00-30 is a 4 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 7.5 kW / 400 V AC (AC-3) and switching power circuits up to 30 A (AC-1) or 30 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (24 V 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

| | |
|--------------------------|-----------------|
| Instructions and Manuals | 1SBC101053M6801 |
|--------------------------|-----------------|

Dimensions

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|----------------------------|---------|
| Product Net Width | 45 mm |
| Product Net Depth / Length | 97 mm |
| Product Net Height | 86 mm |
| Product Net Weight | 0.43 kg |

Technical

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|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts NO | 2 |
| Number of Main Contacts NC | 2 |
| Number of Auxiliary Contacts NO | 0 |
| Number of Auxiliary Contacts NC | 0 |
| 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 35 A |
| Rated Operational Current AC-1 (I _e) | (690 V) 40 °C 30 (690 V) 60 °C 30 A (690 V) 70 °C 26 |
| Rated Operational Current AC-3 (I _e) | (415 V) 60 °C 18 A (440 V) 60 °C 18 A (500 V) 60 °C 15 A (690 V) 60 °C 10.5 A (380 / 400 V) 60 °C 18 A (220 / 230 / 240 V) 60 °C 18 A |
| Rated Operational Power AC-3 (P _e) | (415 V) 9 kW (440 V) 9 kW (500 V) 9 kW (690 V) 9 kW (380 / 400 V) 7.5 kW (220 / 230 / 240 V) 4 kW |
| Rated Short-time Withstand Current Low Voltage (I _{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 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 250 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 106 A |
| Maximum Electrical Switching Frequency | (AC-1) 600 cycles per hour |
| Rated Insulation Voltage (U _i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage (U _{imp}) | 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz / 60 Hz 100 ... 250 V DC Operation 24 V |
| Operate Time | Between Coil De-energization and NC Contact Closing 22 ... 57 ms Between Coil De-energization and NO Contact Opening 17 ... 29 ms Between Coil Energization and NC Contact Opening 20 ... 35 ms Between Coil Energization and NO Contact Closing 27 ... 53 ms |
| Connecting Capacity Main Circuit | Flexible with Ferrule 1/2x 0.75 ... 6 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 4 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 6 mm ² |
| 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 |
| Wire Stripping Length | Control Circuit 10 mm |

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|----------------------|------------------------------------------------------------------------------------------------------------------------------|
| | Main Circuit 10 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 |

Technical UL/CSA

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|------------------------------|-----------------|
| General Use Rating UL/CSA | (600 V AC) 30 A |
|------------------------------|-----------------|

Environmental

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|---------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air -40 ... 70 °C |
| Climatic Withstand | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude Permissible | Without Derating 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 4 g closed position / 2 g open position |
| RoHS Status | Following EU Directive 2011/65/EU |

Certificates and Declarations (Document Number)

| | |
|------------------------------------|--------------------------------------------|
| CB Certificate | CB_SE-96551M1 |
| CCC Certificate | CCC_2010010304445624 |
| CQC Certificate | CQC2010010304445624 CQC2020010304298240 |
| Declaration of Conformity - CCC | 2020980304001253 2020980304001082 |
| Declaration of Conformity - CE | 1SBD250001U1000 |
| DNV Certificate | DNV-GL_TAE00001AF-3 |
| DNV GL Certificate | DNV-GL_TAE00001AF-3 |
| EAC Certificate | EAC_RU_FRME77B03447 |
| GL Certificate | DNV-GL_TAE00001AF-3 |
| Instructions and Manuals | 1SBC101053M6801 |
| RMRS Certificate | RMRS_1802705280 |
| RoHS Information | 1SBD250001U1000 |
| UL Certificate | UL_20171228-E319322_3_1 |

Container Information

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|-----------------------------------|----------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 96 mm |
| Package Level 1 Depth / Length | 112 mm |
| Package Level 1 Height | 50 mm |
| Package Level 1 Gross Weight | 0.475 kg |
| Package Level 1 EAN | 3471523116795 |
| Package Level 2 Units | crate 12 piece |
| Package Level 2 Width | 51 mm |
| Package Level 2 Depth / Length | 98 mm |
| Package Level 2 Height | 114 mm |
| Package Level 2 Gross Weight | 5.7 kg |

Package Level 3 Units

576 piece

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 | |
| ETIM 7 | EC000066 - Power contactor, AC switching | |
| eClass | | V11.0 : 27371003 |
| UNSPSC | | 39121529 |
| E-Number (Finland) | | 3709066 |

Categories

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

