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Detailed information for: AF38Z-22-00-20

This page contains technical data sheet, documents library and links to offering related to this product. If you require any other information, please contact us using form located at the bottom of the page.

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Data Sheet

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AF38Z-22-00-20

General Information

Extended Product Type: AF38Z-22-00-20

Product ID: 1SBL296501R2000

EAN: 3471523116900

Catalog Description: AF38Z-22-00-20 12-20VDC Contactor

Long Description: The AF38Z-22-00-20 is a 4 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 11 kW / 400 V AC (AC-3) and switching power circuits up to 55 A (AC-1) or 55 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (12-20 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.



Categories

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

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Instructions and Manuals: [1SBC101027M6801](#)

Dimensions

Product Net Width: 45 mm

Product Net Depth / Length: 101 mm

Product Net Height: 86 mm

Product Net Weight: 0.4 kg

Technical

Number of Main Contacts NO: 2

Number of Main Contacts NC:	2
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 55 A
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 55 (690 V) 60 °C 45 A (690 V) 70 °C 37
Rated Operational Current AC-3 (I_e):	(415 V) 60 °C 21.2 A (440 V) 60 °C 20 A (500 V) 60 °C 17.6 A (690 V) 60 °C 10.5 A (380 / 400 V) 60 °C 22 A (220 / 230 / 240 V) 60 °C 23.2 A
Rated Operational Power AC-3 (P_e):	(400 V) 11 kW (415 V) 11 kW (440 V) 11 kW (500 V) 11 kW (690 V) 9 kW (220 / 230 / 240 V) 5.5 kW
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 55 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 450 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 1 s -empty- 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 - 50 Hz / 60 Hz 100 ... 250 V 60 Hz - DC Operation 12 ... 20 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:	Flexible with Ferrule 1/2x 1.5 ... 16 mm ² Flexible with Insulated Ferrule 1x 1.5 ... 16 mm ² Flexible with Insulated Ferrule 2x 1.5 ... 16 mm ² Rigid 1/2x 1.5 ... 16 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 Main Circuit 12 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
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Terminal Type: Screw Terminals

Technical UL/CSA

General Use Rating UL/CSA: (600 V AC) 55 A

Tightening Torque UL/CSA: Control Circuit 11 IA
Main Circuit 22 IA

Environmental

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: 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: Closed, Shock Direction: A 30 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: A 25 K40
Open, Shock Direction: B1 5 K40
Open, Shock Direction: B2 10 K40
Open, Shock Direction: C1 20 K40
Open, Shock Direction: C2 20 K40

RoHS Status: Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

ABS Certificate: [ABS_15-GE1349500-PDA_90682247](#)

CB Certificate: [CB_SE-96553](#)

CCC Certificate: [CCC_2010010304445623](#)

CQC Certificate: [CQC2010010304445623](#)
[CQC2020010304294316](#)

Declaration of Conformity - CCC: [2020980304001254](#)
[2020980304001052](#)

Declaration of Conformity - CE: [1SBD250001U1000](#)

DNV Certificate: [DNV-GL_TAE00001AF-3](#)

DNV GL Certificate: [DNV-GL_TAE00001AF-3](#)

EAC Certificate: [EAC_RU_FRME77B03447](#)

Environmental Information: [1SBD250153E1000](#)

GL Certificate: [DNV-GL_TAE00001AF-3](#)

GOST Certificate: [GOST_POCCFR.ME77.B07175.pdf](#)

Instructions and Manuals: [1SBC101027M6801](#)

KC Certificate: [KC_HW02016-15002C](#)

LR Certificate: [LRS_1300087E1](#)

RINA Certificate: [RINA_ELE084013XG](#)

RMRS Certificate: [RMRS_1802705280](#)

RoHS Information: [1SBD250001U1000](#)

UL Certificate: [UL_20171228-E319322_3_1](#)

UL Listing Card: [UL_E319322](#)

Container Information

Package Level 1 Units: box 1 piece

Package Level 1 Width: 87 mm

Package Level 1 Depth / Length: 103 mm

Package Level 1 Height: 47 mm

Package Level 1 Gross Weight: 0.4 kg

Package Level 1 EAN: 3471523116900

Package Level 2 Units: box 18 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: 14.4 kg

Package Level 3 Units: 864 piece

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

eClass: V11.0 : 27371003

UNSPSC: 39121529

E-Number (Finland): 3705856

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