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General Information

 Extended Product Type:
 AF09Z-22-00-21

 Product ID:
 1SBL136501R2100

 EAN:
 3471523116610

Catalog Description: AF09Z-22-00-21 24-60V50/60HZ 20-60VDC Contactor

Long Description: AF09Z 4-pole contactors are used for controlling power circuits up to 690 V AC and 440 V

DC. They are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces...). AF..Z contactors include an electronic coil interface accepting a wide control voltage Uc min. ... Uc max. Only four coils cover control voltages between 24...250 V 50/60 Hz or 12...250 V DC. AF..Z contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF..Z contactors allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption. AF..Z contactors withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24...250 V 50/60 Hz AF..Z contactors have built-in surge protection and do not require additional surge suppressors The AF... series 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 2 N.O. + 2 N.C. main poles, front and side-mounted add-on auxiliary contact blocks. (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. 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.

Categories

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

Ordering

 EAN:
 3471523116610

 Minimum Order Quantity:
 1 piece

 Customs Tariff Number:
 85369085

Dimensions

Product Net Width: 45 mm
Product Net Depth: 77 mm
Product Net Height: 86 mm
Product Net Weight: 0.310 kg

Container Information

Package Level 1 Units: 1 piece Package Level 1 Width: 87 mm 79 mm Package Level 1 Length: Package Level 1 Height: 47 mm Package Level 1 Gross Weight: 0.31 kg Package Level 1 EAN: 3471523116610 Package Level 2 Units: 54 piece Package Level 2 Width: 250 mm Package Level 2 Length: 300 mm Package Level 2 Height: 315 mm Package Level 3 Units: 1296 piece

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 acc. to IEC 60947-4-1,

Current (Ith):

acc. to IEC 60947-4-1, Open Contactors q = 40 °C 35 A

Rated Operational Current AC-1 (I_e): (690 V) 40 °C 25 A

(690 V) 60 °C 25 A (690 V) 70 °C 22 A

Rated Operational Current AC-3 (I_e): (220 / 230 / 240 V) 60 °C 9 A

(380 / 400 V) 60 °C 9 A (415 V) 60 °C 9 A (440 V) 60 °C 9 A

(500 V) 60 °C 9.5 A (690 V) 60 °C 7 A Rated Operational Power AC-3 (Pe): (220 / 230 / 240 V) 2.2 kW (380 / 400 V) 4 kW (400 V) 4 kW (415 V) 4 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW Rated Short-time Withstand Current 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 (I_{cw}) : 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 cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A **Maximum Breaking Capacity:** cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 A **Maximum Electrical Switching** AC-1 600 cycles per hour Frequency: Rated Insulation Voltage (Ui): acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V Rated Impulse Withstand Voltage (U_{imp}): **Maximum Mechanical Switching** 3600 cycles per hour Frequency: Rated Control Circuit Voltage (U_c): 50 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 V Between Coil De-energization and NC Contact Closing 13...98 ms Operate Time: 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 Insulated Ferrule 1x 0.75...4 mm² Flexible with Insulated Ferrule 2x 0.75...2.5 mm² Flexible with Ferrule 1/2x 0.75...6 mm² Rigid 1/2x 1...6 mm² Connecting Capacity-Control Circuit: Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 1x 0.75...2.5 mm² Flexible with Insulated Ferrule 2x 0.75...1.5 mm² Rigid 1/2x 1...2.5 mm² Wire Stripping Length: Control Circuit 10 mm 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 Environmental **Ambient Air Temperature:** Close to Contactor for Storage -60...+80 °C Near Contactor for Operation in Free Air -40 ... +70 °C **Maximum Operating Altitude** 3000 m Permissible: Resistance to Shock acc. to IEC Closed, Shock Direction: B1 25 g 60068-2-27: Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 q Resistance to Vibrations acc. to IEC 5...300 Hz 4 g closed position / 2 g open position 60068-2-6:

RoHS Status: Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1

Technical UL/CSA

General Use Rating UL/CSA: (600 V AC) 25 A

Tightening Torque UL/CSA: Control Circuit 11 in·lb
Main Circuit 13 in·lb

Certificates and Declarations (Document Number)

 ABS Certificate:
 ABS_15-GE1349500-PDA_90682247

 CB Certificate:
 CB_SE_70857M1

 CCC Certificate:
 CCC_2010010304445624

 cUL Certificate:
 UL_20100802-E319322-3-1

 Declaration of Conformity - CE:
 1SBD250168C1000

 DNV Certificate:
 DNV-GL E13871

EAC Certificate: EAC_RU C-FR ME77 B01010

GL Certificate: DNV-GL_E13871

GOST_POCCFR.ME77.B07175.pdf

 LR Certificate:
 LRS_1300087E1

 RINA Certificate:
 RINA_ELE084013XG

 RMRS Certificate:
 RMRS_1400682124

 RoHS Information:
 1SBD251011E1000

Classifications

E-nummer: 3211392

ETIM 5: EC000066 - Magnet contactor, AC-switching

UNSPSC: 39121529







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Product	Code	Reference	Product link
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