

General Information

 Extended Product Type:
 AF38Z-40-00-23

 Product ID:
 1SBL296201R2300

 EAN:
 3471523116139

Catalog Description: AF38Z-40-00-23 100-250V50/60HZ-DC Contactor

Long Description: AF38Z 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: 4 N.O. 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

 Minimum Order Quantity:
 1 piece

 Customs Tariff Number:
 85369085

 EAN:
 3471523116139

Dimensions

Product Net Depth: 101 mm

Product Net Height: 86 mm

Product Net Weight: 0.400 kg

Product Net Width: 45 mm

Container Information

87 mm Package Level 1 Width: 103 mm Package Level 1 Length: 47 mm Package Level 1 Height: Package Level 1 Gross Weight: 0.4 kg 3471523116139 Package Level 1 EAN: Package Level 2 Units: 36 piece Package Level 2 Width: 250 mm Package Level 2 Length: 300 mm Package Level 2 Height: 315 mm Package Level 3 Units: 864 piece Package Level 1 Units: 1 piece

Technical

Number of Main Contacts NC: 0
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 (Ith):

acc. to IEC 60947-4-1, Open Contactors q = 40 $^{\circ}$ C 55 A

Rated Operational Current AC-1 (I_e): (690 V) 40 °C 55 A (690 V) 60 °C 45 A

(690 V) 60 °C 45 A (690 V) 70 °C 37 A

Rated Operational Current AC-3 (I_e): (220 / 230 / 240 V) 60 °C 23.2 A

(380 / 400 V) 60 °C 22 A (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 Rated Operational Power AC-3 (Pe): (220 / 230 / 240 V) 5.5 kW

(400 V) 11 kW (415 V) 11 kW (440 V) 11 kW (500 V) 11 kW (690 V) 9 kW

Rated Short-time Withstand Current at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 300 A

 (I_{cw}) :

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

Maximum Electrical Switching

Frequency:

AC-1 600 cycles per hour

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}):

6 kV

Maximum Mechanical Switching

Frequency:

3600 cycles per hour

Rated Control Circuit Voltage (Uc):

50 Hz 100 ... 250 V

60 Hz 100 ... 250 V DC Operation 100 ... 250 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 Insulated Ferrule 1x 1.5...16 mm² Flexible with Insulated Ferrule 2x 1.5...16 mm²

Flexible with Ferrule 1/2x 1.5...16 mm²

Rigid 1/2x 1.5...16 mm²

Connecting Capacity Control Circuit: Flexible with Ferrule $1/2x\ 0.75\ ...\ 2.5\ mm^2$

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 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

Terminal Type: Screw Terminals

Number of Main Contacts NO:

Environmental

Climatic Withstand: Category B according to IEC 60947-1 Annex Q

Maximum Operating Altitude

Permissible:

3000 m

Resistance to Vibrations acc. to IEC 5 ... 300 Hz 4 g closed position / 2 g open position

60068-2-6:

Resistance to Shock acc. to IEC

60068-2-27:

Closed, Shock Direction: B1 25 g 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 g

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

RoHS Status: Close to Contactor for Storage -60...+80 °C **Ambient Air Temperature:**

Near Contactor for Operation in Free Air -40 ... +70 °C

Technical UL/CSA

General Use Rating UL/CSA: (600 V AC) 55 A Tightening Torque UL/CSA: Control Circuit 11 in·lb

Main Circuit 22 in·lb

Certificates and Declarations (Document Number)

Instructions and Manuals: 1SBC101027M6801

ABS Certificate: ABS_15-GE1349500-PDA_90682247

CB Certificate: CB_SE_70858M1 CCC Certificate: CCC 2010010304445623 Data Sheet, Technical Information: 1SBC101424D0201 **Declaration of Conformity - CE:** 1SBD250001U1000 **DNV Certificate:** DNV-GL_E13871

EAC Certificate: EAC RU C-FR ME77 B01010

GL Certificate: DNV-GL_E13871 GOST Certificate: GOST_POCCFR.ME77.B07175.pdf

 LR Certificate:
 LRS_1300087E1

 RINA Certificate:
 RINA_ELE084013XG

 RMRS Certificate:
 RMRS_1400682124

 RoHS Information:
 1SBD251015E1000

 UL Certificate:
 UL_20100802-E319322-3-1

Classifications

ETIM 4:EC000066 - Magnet contactor, AC-switchingETIM 5:EC000066 - Magnet contactor, AC-switchingETIM 6:EC000066 - Power contactor, AC switchingUNSPSC:39121529

Object Classification Code: Q

