



English



AF38Z-40-00-22

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General Information

Extended Product Type:

AF38Z-40-00-22

Product ID:

1SBL296201R2200

EAN:

3471523116122

Catalog Description:

AF38Z-40-00-22 48-130V50/60HZ-DC Contactor

Long Description:

The AF38Z-40-00-22 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 (48-130 V 50/60 Hz ... [Show more](#)

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Data Sheet

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Ordering

Minimum Order Quantity:

1 piece

Popular Downloads

Data Sheet, Technical Information:

[1SBC100214C0202 - Main catalog.Motor protection and control Manual motor starters, contactors and overload relays \(PDF\) - Edition 2024](#)

Instructions and Manuals:

[Installation instructions AF\(C\)09...38\(Z\)\(B\) Contactors, NF\(C\)\(Z\)\(B\)22...80E Contactor relays and CA4, CAL4, CAT4, CC4, LDC4 Accessories](#)

Instructions and Manuals (Part 2):

[Contactors and Overload relays guide](#)

CAD Dimensional Drawing:

[Information - 2D and 3D files for CAD systems](#)

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:

4

Number of Main Contacts NC:

0

Number of Auxiliary Contacts NO:

0

Number of Auxiliary Contacts NC:

0

Number of Poles:

4P

Standards:

IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60335-2-40 LZGH2 A2L, UL 60947-1, UL 60947-4-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CAN/CSA C22.2 No.60947-1, CAN/CSA C22.2 No.60947-4-1

Rated Operational Voltage:

Main Circuit 690 V

Rated Frequency (f):

Control Circuit 50 / 60 Hz

Main Circuit 50 / 60 Hz

Conventional Free-air Thermal Current (I_{th}):

acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 55 A

Rated Operational Current AC-1 (I_e):

(690 V) 40 °C 55 A

(690 V) 60 °C 45 A

(690 V) 70 °C 37 A

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 Current DC-1 (I_e):

(110 V) 2 Poles in Series, 40 °C 55 A

(110 V) 2 Poles in Series, 60 °C 45 A

(110 V) 2 Poles in Series, 70 °C 37 A

(110 V) 3 Poles in Series, 40 °C 55 A

(110 V) 3 Poles in Series, 60 °C 45 A

(110 V) 3 Poles in Series, 70 °C 37 A

(110 V) 4 Poles in Series, 40 °C 55 A

(110 V) 4 Poles in Series, 60 °C 45 A

(110 V) 4 Poles in Series, 70 °C 37 A

(220 V) 3 Poles in Series, 40 °C 55 A

(220 V) 3 Poles in Series, 60 °C 45 A

(220 V) 3 Poles in Series, 70 °C 37 A

(220 V) 4 Poles in Series, 40 °C 55 A

(220 V) 4 Poles in Series, 60 °C 45 A

(220 V) 4 Poles in Series, 70 °C 37 A

(72 V) 1-Pole, 40 °C 55 A

(72 V) 1-Pole, 60 °C 45 A

(72 V) 1-Pole, 70 °C 37 A

(72 V) 2 Poles in Series, 40 °C 55 A

(72 V) 2 Poles in Series, 60 °C 45 A

(72 V) 2 Poles in Series, 70 °C 37 A

(72 V) 3 Poles in Series, 40 °C 55 A

(72 V) 3 Poles in Series, 60 °C 45 A

(72 V) 3 Poles in Series, 70 °C 37 A

(72 V) 4 Poles in Series, 40 °C 55 A

(72 V) 4 Poles in Series, 60 °C 45 A

(72 V) 4 Poles in Series, 70 °C 37 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 Low Voltage (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

Rated Insulation Voltage (U_i):

acc. to IEC 60947-4-1 690 V

acc. to UL/CSA 600 V

Rated Impulse Withstand Voltage (U_{imp}):

6 kV

Maximum Electrical Switching Frequency:

(AC-1) 600 cycles per hour

Maximum Mechanical Switching Frequency:

3600 cycles per hour

Rated Control Circuit Voltage (U_c):

50 Hz 48 ... 130 V

60 Hz 48 ... 130 V

DC Operation 48 ... 130 V

Power Loss:

at Rated Operating Conditions AC-1 per Pole 2.3 W

at Rated Operating Conditions AC-3 per Pole 0.42 W

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

Mounting on DIN Rail:

TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715

TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715

Mounting by Screws (not supplied):

2 x M4 screws placed diagonally

Connecting Capacity Main Circuit:

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

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

Rigid Solid 1/2x 1.5 ... 4 mm²

Rigid Stranded 1/2x 1.5 ... 16 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 Solid 1/2x 1 ... 2.5 mm²

Rigid Stranded 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

Tightening Torque:

Control Circuit 1.2 N·m

Main Circuit 2.5 N·m

Terminal Type:

Screw Terminals

Product Name:

Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:

Main Circuit 600 V

General Use Rating UL/CSA:

(600 V AC) 55 A

Connecting Capacity Main Circuit UL/CSA:

Rigid Solid 1/2x 16-10 AWG

Rigid Stranded 1/2x 16-6 AWG

Connecting Capacity Control Circuit UL/CSA:

Rigid Solid 1/2x 18-14 AWG

Rigid Stranded 1/2x 18-14 AWG

Tightening Torque UL/CSA:

Control Circuit 11 in-lb

Main Circuit 22 in-lb

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:

Without Derating 3000 m

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

Resistance to Vibrations:

4g Closed Position & 2g Open position 5 ... 300 Hz

Pollution Degree:

3

Material Compliance

Conflict Minerals Reporting Template (CMRT):

[CMRT - Conflict Minerals Reporting Template](#)

REACH Declaration:

[REACH - Letter of Confirmation for block contactors, contactor relays, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Information:

[RoHS II declaration for block contactors, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Status:

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control Act - TSCA:Toxic Substances Control Act (TSCA) declaration for Contactors**WEEE B2C / B2B:**

Business To Business

WEEE Category:

5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions**End Of Life Disassembling Instructions:**End of life instruction AF(S)09/12/16/26/30/38(Z)(B)(K)(RT) Contactors & NF(Z)(B)(K)(RT) Contactors relays**Environmental Product Declaration - EPD:**Environmental Product Declaration AF(S)26/30/38(Z)(B) Contactors (FR)**Sustainable Material Content in Packaging (wt. %):**

Recycled Cardboard - 86 %

Sustainable Material Content in Product (wt. %):

Recycled Metal - 28 %

Certificates and Declarations**A2L Certificate – UL:**UL-US A2L LZGH2 Certificate of Compliance AF09 ... AF38 3-pole contactors with screw terminals - UL 60335-2-40 Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and DehumidifiersUL-CA A2L LZGH2 Certificate of Compliance AF09 ... AF38 3-pole contactors with screw terminals - CSA C22.2 No. 60335-2-40 Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers**ABS Certificate:**ABS Certificate, AF(S)09 to AF(S)96 contactors, NF contactor relays and CA4, CC4, CAL4, CAT4 auxiliary contact blocks, TEF4 electronic timers**BV Certificate:**BV Certificate AF(C)09...AF(C)38 3-pole and 4-pole contactors with screw and Push-in Spring terminals**CB Certificate:**CB Certificate AF(C)26, AF(C)38, AF26(Z)B, AF38(Z)B 4-pole contactors**CCC Certificate:**CCC Certificate AF26, AF30, AF38, AF26(Z)B, AF30(Z)B, AF38(Z)B 3 and 4-pole contactors, AFS26, AFS30, AFS38 safety contactors**CQC Certificate:**CQC Certificate, Contactor, AF*26, AF*30, AF*38, Made in FranceCQC Certificate, Contactor, AF26, AF30, AF38, Made in China**Declaration of Conformity - CCC:**CCC Declaration of Conformity, Contactor, AF26, AF30, AF38, AFS26, AFS30, AFS38 Made in FranceCCC Declaration of Conformity, Contactor, AF26, AF30, AF38, Made in China**Declaration of Conformity - CE:**EU Declaration of Conformity AF09, AF16, AF26, AF38, AF40, AF52, AF80, 4-pole Contactors**Declaration of Conformity - UKCA:**UK Declaration of Conformity AF09, AF16, AF26, AF38, AF40, AF52, AF80, 4-pole Contactors**DNV Certificate:**DNV Certificate AF(S)09...96 3-pole & AF09...80 4-pole contactors with screw, spring, push-in terminals**GOST Certificate:**GOST_POCCFR.ME77.B07175.pdf**KC Certificate:**KC Certificate AF26...AF38 4-pole contactors**LR Certificate:**

3/20/25, 11:55 AM	AF38Z-40-00-22 ABB
LRS Certificate AF(S)09...(K) ... AF96 3 and 4-pole contactors and CA(L)4...(K), CAT4, CC4 auxiliary contact blocks	
RINA Certificate:	
Rina Certificate for AF(S)09...AF(S)96 contactors, NF contactor relays and accessories with screw, spring and push-in terminals	
RMRS Certificate:	
RMRS Certificate AF(S)09(S) ... AF(S)38 3-pole and 4-pole, AF(S)40...96 3-pole contactors with screw, push-in and spring terminals	
UL Certificate:	
UL-US Certificate of Compliance AF(C)09...(K) ... AF(C)38 4-pole contactors with screw and push-in spring terminals	
UL-CA Certificate of Compliance AF(C)09...(K) ... AF(C)38 4-pole contactors with screw and push-in spring terminals	
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:

3471523116122

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

External Classifications and Standards

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

E-Number (Finland):

3705842

Accessories

Filters

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54 Products

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Identifier	Description	Type	Qty	Unit Of Measure	Actions
1SBN112303T1000	BP38-4 Mounting Piece	BP38-4	1	piece	
1SBN113403T1000	BP65-4 Mounting Piece	BP65-4	1	piece	
1SBN113903T1000	BP96-4 Mounting Piece	BP96-4	1	piece	
1SBN110108T1000	BX4 Protective Cover	BX4	1	piece	
1SBN110109W1000	BX4-CA Protective Cover	BX4-CA	1	piece	



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