





AF80-40-00-14

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General Information

Extended Product Type:

AF80-40-00-14

Product ID:

1SBL397201R1400

EAN:

3471523133747

Catalog Description:

AF80-40-00-14 250-500V50/60HZ-DC Contactor

Long Description:

The AF80-40-00-14 is a 4 pole - 1000 V IEC or 600 UL contactor with screw terminals, controlling motors up to 37 kW / 400 V AC (AC-3) and switching power circuits up to 125 A (AC-1) or 105 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 V 50/60 ... [Show more](#)

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Ordering

Minimum Order Quantity:

1 piece

Customs Tariff Number:

85364900

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\(C\)40\(B\)...80\(B\)-40/22 Contactors, 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:

90 mm

Product Net Depth / Length:

116 mm

Product Net Height:

125.5 mm

Product Net Weight:

1.44 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, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22

Rated Operational Voltage:

Main Circuit 1000 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 125 A

Rated Operational Current AC-1 (I_e):

(690 V) 40 °C 125 A

(690 V) 60 °C 105 A

(690 V) 70 °C 90 A

Rated Operational Current AC-3 (I_e):

(415 V) 60 °C 80 A

(440 V) 60 °C 80 A

(500 V) 60 °C 65 A

(690 V) 60 °C 49 A

(1000 V) 60 °C 25 A

(380 / 400 V) 60 °C 80 A

(220 / 230 / 240 V) 60 °C 80 A

Rated Operational Power AC-3 (P_e):

(415 V) 45 kW

(440 V) 45 kW

(500 V) 45 kW

(690 V) 45 kW

(1000 V) 35 kW

(380 / 400 V) 37 kW

(220 / 230 / 240 V) 22 kW

Rated Short-time Withstand Current Low Voltage (I_{cw}):

at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 780 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A

Maximum Breaking Capacity:

cos phi=0.45 (cos phi=0.35 for I_e > 100 A) at 440 V 1150 A

cos phi=0.45 (cos phi=0.35 for I_e > 100 A) at 690 V 750 A

Rated Insulation Voltage (U_i):

acc. to IEC 60947-4-1 1000 V

acc. to UL/CSA 600 V

Rated Impulse Withstand Voltage (U_{imp}):

8 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 250 ... 500 V

60 Hz 250 ... 500 V

DC Operation 250 ... 500 V

Coil Consumption:

Average Holding Value 50 / 60 Hz 4 V·A

Average Holding Value 50 Hz 4 V·A

Average Holding Value 60 Hz 4 V·A

Average Holding Value DC 2 W

Average Holding Value, from Warm State 2 W

Power Loss:

at Rated Operating Conditions AC-1 per Pole 8 W

at Rated Operating Conditions AC-3 per Pole 3.2 W

Mounting on DIN Rail:

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

Mounting by Screws (not supplied):

2 x M4 or 2 x M6 screws placed diagonally

Connecting Capacity Main Circuit:Flexible with Ferrule 1/2x 6 ... 50 mm²Flexible with Insulated Ferrule 1/2x 6 ... 50 mm²Rigid Stranded 1x 6 ... 70 mm²Rigid Stranded 2x 6 ... 50 mm²**Connecting Capacity Control Circuit:**Flexible with Ferrule 1/2x 0.75 ... 2.5 mm²Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm²Rigid Solid 1/2x 1 ... 2.5 mm²Rigid Stranded 1/2x 1 ... 2.5 mm²**Wire Stripping Length:**

Control Circuit 10 mm

Main Circuit 17 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 IP10

Recommended Screw Driver:

Pozidriv PZ

Tightening Torque:

Control Circuit 1.2 N·m

Main Circuit 6 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) 105 A

Connecting Capacity Main Circuit UL/CSA:

Rigid Stranded 1/2x 6-1 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 53 in-lb

Full Load Amps Motor Use:

(120 V AC) Single Phase 7-1/2 A

(200 ... 208 V AC) Three Phase 25 A

(220 ... 240 V AC) Three Phase 30 A

(240 V AC) Single Phase 15 A

(440 ... 480 V AC) Three Phase 60 A

(550 ... 600 V AC) Three Phase 75 A

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 Vibrations:

3g 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**ABB EcoSolutions:**

Yes

End Of Life Disassembling Instructions:

[End of life instruction AF\(S\)40/52/65/80/96\(B\)\(RT\) Contactors](#)

Environmental Product Declaration - EPD:

[Environmental Product Declaration AF80, AF96 \(CN\) Contactors](#)
[Environmental Product Declaration AF\(S\)80\(B\), AF\(S\)96\(B\) \(FR\)](#)

Sustainable Material Content in Packaging (wt. %):

FSC Recycled Paper - 94.6 %

Sustainable Material Content in Product (wt. %):

Recycled Metal - 28.2 %

Certificates and Declarations

A2L Certificate – UL:

[UL-US Certificate of Compliance AF40 ... AF96 3-pole contactors - UL 60335-2-40 Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers](#)

[UL-CA Certificate of Compliance AF40 ... AF96 3-pole contactors - 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_2634H36994B1](#)

CB Certificate:

[CB Certificate AF\(S\)80\(B\), AF\(S\)96\(B\) 3 and 4-pole contactors](#)

CCC Certificate:

[CQC Certificate, AC Contactor, AF\(S\)*80-30-**-**, AF80-40-**-**, AF80-22-**-**, AF\(S\)96-30-**-**, Made in France](#)

Declaration of Conformity - CCC:

[CCC Declaration of Conformity, AC Contactor, AF*80-30-**-**, AF80-40-**-**, AF80-22-**-**, AF*96-30-**-**, Made in France](#)

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](#)

KC Certificate:

[KC Certificate AF80 4-pole Contactors](#)

LR Certificate:

[LRS Certificate AF\(S\)09...\(K\) ... AF96 3 and 4-pole contactors and CA\(L\)4...\(K\), CAT4, CC4 auxiliary contact blocks](#)

RMRS Certificate:

[RMRS Certificate AF09\(S\)...AF38 3-pole and 4-pole, AF40...96 3-pole contactors, screw and spring terminals](#)

UL Certificate:

[UL-US Certificate of Compliance AF40\(B\)...80\(B\) 4-pole contactors](#)

[UL-CA Certificate of Compliance AF40\(B\)...80\(B\) 4-pole contactors](#)

UL Listing Card:

[UL_E312527](#)

Container Information

Package Level 1 Units:

box 1 piece

Package Level 1 Width:

150 mm

Package Level 1 Depth / Length:

150 mm

Package Level 1 Height:

103 mm

Package Level 1 Gross Weight:

1.57 kg

Package Level 1 EAN:

3471523133747

Package Level 2 Units:

box 8 piece

Package Level 2 Width:

250 mm

Package Level 2 Depth / Length:

300 mm

Package Level 2 Height:

300 mm

Package Level 2 Gross Weight:

12.56 kg

Package Level 3 Units:

192 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):

3707461

E-Number (Sweden):

3210316

Accessories

Filters

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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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