



English



AF96-30-00-13

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General Information

Extended Product Type:

AF96-30-00-13

Product ID:

1SBL407001R1300

EAN:

3471523133235

Catalog Description:

AF96-30-00-13 100-250V50/60HZ-DC Contactor

Long Description:

The AF96-30-00-13 is a 3 pole - 1000 V IEC or 600 UL contactor with screw terminals, controlling motors up to 45 kW / 400 V AC (AC-3) or 60 hp / 480 V UL and switching power circuits up to 130 A (AC-1) or 115 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage ran... [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\(B\)...96\(B\)-30 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:

70 mm

Product Net Depth / Length:

116 mm

Product Net Height:

125.5 mm

Product Net Weight:

1.17 kg

Technical

Number of Main Contacts NO:

3

Number of Main Contacts NC:

0

Number of Auxiliary Contacts NO:

0

Number of Auxiliary Contacts NC:

0

Number of Poles:

3P

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 $\Theta = 40\text{ }^{\circ}\text{C}$ 130 A

Rated Operational Current AC-1 (I_e):

(690 V) 40 °C 130 A

(690 V) 60 °C 105 A

(690 V) 70 °C 90 A

Rated Operational Current AC-3 (I_e):

(415 V) 60 °C 96 A

(440 V) 60 °C 96 A

(500 V) 60 °C 80 A

(690 V) 60 °C 57 A

(1000 V) 60 °C 30 A

(380 / 400 V) 60 °C 105 A

(220 / 230 / 240 V) 60 °C 105 A

Rated Operational Current AC-3e (I_e):

(415 V) 60 °C 96 A

(440 V) 60 °C 96 A

(500 V) 60 °C 80 A

(690 V) 60 °C 57 A

(380 / 400 V) 60 °C 105 A

(220 / 230 / 240 V) 60 °C 105 A

Rated Operational Current DC-1 (I_e):

(110 V) 2 Poles in Series, 40 °C 130 A

(110 V) 2 Poles in Series, 60 °C 105 A

(110 V) 2 Poles in Series, 70 °C 90 A

(110 V) 3 Poles in Series, 40 °C 130 A

(110 V) 3 Poles in Series, 60 °C 105 A

(110 V) 3 Poles in Series, 70 °C 90 A

(220 V) 3 Poles in Series, 40 °C 125 A

(220 V) 3 Poles in Series, 60 °C 105 A

(220 V) 3 Poles in Series, 70 °C 90 A

(72 V) 1-Pole, 40 °C 130 A

(72 V) 1-Pole, 60 °C 105 A

(72 V) 1-Pole, 70 °C 90 A

(72 V) 2 Poles in Series, 40 °C 130 A

(72 V) 2 Poles in Series, 60 °C 105 A

(72 V) 2 Poles in Series, 70 °C 90 A

(72 V) 3 Poles in Series, 40 °C 130 A

(72 V) 3 Poles in Series, 60 °C 105 A

(72 V) 3 Poles in Series, 70 °C 90 A

Rated Operational Current DC-3 (I_e):

(110 V) 2 Poles in Series, 40 °C 130 A

(110 V) 2 Poles in Series, 60 °C 105 A

(110 V) 2 Poles in Series, 70 °C 90 A

- (110 V) 3 Poles in Series, 40 °C 130 A
- (110 V) 3 Poles in Series, 60 °C 105 A
- (110 V) 3 Poles in Series, 70 °C 90 A
- (220 V) 3 Poles in Series, 40 °C 130 A
- (220 V) 3 Poles in Series, 60 °C 105 A
- (220 V) 3 Poles in Series, 70 °C 90 A
- (72 V) 1-Pole, 40 °C 130 A
- (72 V) 1-Pole, 60 °C 105 A
- (72 V) 1-Pole, 70 °C 90 A
- (72 V) 2 Poles in Series, 40 °C 130 A
- (72 V) 2 Poles in Series, 60 °C 105 A
- (72 V) 2 Poles in Series, 70 °C 90 A
- (72 V) 3 Poles in Series, 40 °C 130 A
- (72 V) 3 Poles in Series, 60 °C 105 A
- (72 V) 3 Poles in Series, 70 °C 90 A

Rated Operational Current DC-5 (I_e):

- (110 V) 2 Poles in Series, 40 °C 130 A
- (110 V) 2 Poles in Series, 60 °C 105 A
- (110 V) 2 Poles in Series, 70 °C 90 A
- (110 V) 3 Poles in Series, 40 °C 130 A
- (110 V) 3 Poles in Series, 60 °C 105 A
- (110 V) 3 Poles in Series, 70 °C 90 A
- (220 V) 3 Poles in Series, 40 °C 130 A
- (220 V) 3 Poles in Series, 60 °C 105 A
- (220 V) 3 Poles in Series, 70 °C 90 A
- (72 V) 1-Pole, 40 °C 130 A
- (72 V) 1-Pole, 60 °C 105 A
- (72 V) 1-Pole, 70 °C 90 A
- (72 V) 2 Poles in Series, 40 °C 130 A
- (72 V) 2 Poles in Series, 60 °C 105 A
- (72 V) 2 Poles in Series, 70 °C 90 A
- (72 V) 3 Poles in Series, 40 °C 130 A
- (72 V) 3 Poles in Series, 60 °C 105 A
- (72 V) 3 Poles in Series, 70 °C 90 A

Rated Operational Power AC-3 (P_e):

- (415 V) 55 kW
- (440 V) 55 kW
- (500 V) 55 kW
- (690 V) 55 kW
- (1000 V) 40 kW
- (380 / 400 V) 45 kW
- (380 / 400 V) 55 kW
- (220 / 230 / 240 V) 25 kW
- (220 / 230 / 240 V) 30 kW

Rated Operational Power AC-3e (P_e):

- (415 V) 55 kW
- (440 V) 55 kW
- (500 V) 55 kW
- (690 V) 55 kW
- (380 / 400 V) 45 kW
- (380 / 400 V) 55 kW
- (220 / 230 / 240 V) 25 kW
- (220 / 230 / 240 V) 30 kW

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

- at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 840 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

(AC-2 / AC-4) 150 cycles per hour

(AC-3) 1200 cycles per hour

Maximum Mechanical Switching Frequency:

3600 cycles per hour

Rated Control Circuit Voltage (U_c):

50 Hz 100 ... 250 V

60 Hz 100 ... 250 V

DC Operation 100 ... 250 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 8.2 W

at Rated Operating Conditions AC-3 per Pole 4.5 W

Operate Time:

Between Coil De-energization and NC Contact Closing 19 ... 105 ms

Between Coil De-energization and NO Contact Opening 17 ... 100 ms

Between Coil Energization and NC Contact Opening 38 ... 95 ms

Between Coil Energization and NO Contact Closing 42 ... 100 ms

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) 115 A

Horsepower Rating UL/CSA:

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

(200 ... 208 V AC) Three Phase 30 hp

(220 ... 240 V AC) Three Phase 40 hp

(240 V AC) Single Phase 20 hp

(440 ... 480 V AC) Three Phase 75 hp

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

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 80 A

(200 ... 208 V AC) Three Phase 92 A

(220 ... 240 V AC) Three Phase 80 A

(240 V AC) Single Phase 88 A

(440 ... 480 V AC) Three Phase 77 A

(550 ... 600 V AC) Three Phase 77 A

Environmental**Ambient Air Temperature:**

Close to Contactor Fitted with Thermal O/L Relay -40 ... 70 °C

Close to Contactor without Thermal O/L Relay -40 ... 70 °C

Close to Contactor for Storage -60 ... +80 °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: A 25 g

Closed, Shock Direction: B1 25 g

Closed, Shock Direction: B2 15 g

Closed, Shock Direction: C1 25 g

Closed, Shock Direction: C2 25 g

Open, Shock Direction: B1 5 g

Resistance to Vibrations:

3g Closed Position & 3g Open Position 5 ... 300 Hz

Pollution Degree:

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

SCIP:

81df14b5-edb5-40f5-8e35-b316e417bef9 France

Simplified SCIP:

fb3f596b-c8fe-49cb-9b4f-a30aed5aed28 Germany
 f6d20ef4-4758-4a2b-9a84-7716191b9c37 Denmark
 e1ef6c99-d62f-43e1-9fc1-83a6eb57b5a4 Czech Republic
 692bc6cd-cc1f-40a3-9531-fcfd06075411 Germany
 23fdf834-6560-4f22-9e99-6761a9d53fff Finland
 123bc802-adcb-4fc9-8bb4-2d7dd8d92aed Italy
 9206bd31-7c96-4f2e-a972-ea0bbbad9180 Germany
 945a6df2-f86c-4a43-8f63-468ff61ab31f Spain
 76aeb018-b24a-43f1-b0c9-4bf7423d9cef Portugal
 06dd8d63-c226-4ebe-ac4f-bbcbfd9d062bc Greece
 fcf482ee-85e7-4bce-9ea1-433eb4a60616 Netherlands
 8f9ad557-8bf9-4a4e-bc2d-14f715e59998 Belgium
 af53691b-5358-45af-944a-8a35038c7b6f Hungary
 8b42f684-c4f1-4b3e-895f-557ee94ea3bf Sweden
 312181f5-8c00-4a1e-b034-21e6bb3276f3 Estonia
 29d1106e-a88b-4a95-ad7c-d8f9ebc4bd6f Poland
 63a0ebd8-774d-43cd-8218-f3a3b1815bbf Croatia
 33c66136-2501-43e3-b08b-881aaa3885f1 Norway
 a98d77fe-fb79-4e3c-bacc-fc3695b6c1aa Sweden
 73026d12-0a4e-44d8-99a9-38dc86184479 Poland
 17591b3f-db54-40d3-a2ea-87268e6cd61b Bulgaria
 f9d85048-ae86-4ada-aa92-7d4b5192f1c9 Belgium
 5a523464-bcc7-4ecf-9740-ff5026268afc Hungary
 313f20e6-357d-427d-ae07-38b05b7ec25d Germany
 41be6b5b-f9c6-4a2d-a5dd-76c679ba423a Poland
 41261ed1-832e-4eae-acb4-aabf716abe2c France
 7933d999-2517-4ec7-8f44-d0e8e8fe2cc2 Germany

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 AE\(S\)40/52/65/80/96\(B\)\(RT\) Contactors](#)

Environmental Product Declaration - EPD:Environmental Product Declaration AF40 ... AF96 (CN) ContactorsEnvironmental 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 DehumidifiersUL-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... AF96-30-.., AF09...38(Z)-30..K 3-pole Contactors**Declaration of Conformity - UKCA:**UK Declaration of Conformity AF09... AF96-30-.., AF09...38(Z)-30..K 3-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, AF96 3-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**RINA Certificate:**Rina Certificate for AF09...AF96 contactors, NF contactor relays and accessories, screw and spring 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-L312527-1141-10303102-9UL-CA-L312527-4141-10303102-9**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:

1.29 kg

Package Level 1 EAN:

3471523133235

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:

10.32 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):

3707137

E-Number (Sweden):

3210057



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