



English



AF65-30-00-13

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General Information

Extended Product Type:

AF65-30-00-13

Product ID:

1SBL387001R1300

EAN:

3471523132634

Catalog Description:

AF65-30-00-13 100-250V50/60HZ-DC Contactor

Long Description:

The AF65-30-00-13 is a 3 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 30 kW / 400 V AC (AC-3) or 50 hp / 480 V UL and switching power circuits up to 105 A (AC-1) or 90 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range... [Show more](#)

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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\(C\)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:

55 mm

Product Net Depth / Length:

111 mm

Product Net Height:

125.5 mm

Product Net Weight:

0.95 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 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 $\Theta = 40\text{ °C}$ 105 A**Rated Operational Current AC-1 (I_e):**

(690 V) 40 °C 105 A

(690 V) 60 °C 90 A

(690 V) 70 °C 80 A

Rated Operational Current AC-3 (I_e):

(415 V) 60 °C 65 A

(440 V) 60 °C 65 A

(500 V) 60 °C 55 A

(690 V) 60 °C 39 A

(380 / 400 V) 60 °C 65 A

(220 / 230 / 240 V) 60 °C 65 A

Rated Operational Current AC-3e (I_e):

(415 V) 60 °C 65 A

(440 V) 60 °C 65 A

(500 V) 60 °C 55 A

(690 V) 60 °C 39 A

(380 / 400 V) 60 °C 65 A

(220 / 230 / 240 V) 60 °C 65 A

Rated Operational Current DC-1 (I_e):

(110 V) 2 Poles in Series, 40 °C 105 A

(110 V) 2 Poles in Series, 60 °C 90 A

(110 V) 2 Poles in Series, 70 °C 80 A

(110 V) 3 Poles in Series, 40 °C 105 A

(110 V) 3 Poles in Series, 60 °C 90 A

(110 V) 3 Poles in Series, 70 °C 80 A

(220 V) 3 Poles in Series, 40 °C 105 A

(220 V) 3 Poles in Series, 60 °C 90 A

(220 V) 3 Poles in Series, 70 °C 80 A

(72 V) 1-Pole, 40 °C 105 A

(72 V) 1-Pole, 60 °C 90 A

(72 V) 1-Pole, 70 °C 80 A

(72 V) 2 Poles in Series, 40 °C 105 A

(72 V) 2 Poles in Series, 60 °C 90 A

(72 V) 2 Poles in Series, 70 °C 80 A

(72 V) 3 Poles in Series, 40 °C 105 A

(72 V) 3 Poles in Series, 60 °C 90 A

(72 V) 3 Poles in Series, 70 °C 80 A

Rated Operational Current DC-3 (I_e):

(110 V) 2 Poles in Series, 40 °C 105 A

(110 V) 2 Poles in Series, 60 °C 90 A

(110 V) 2 Poles in Series, 70 °C 80 A

(110 V) 3 Poles in Series, 40 °C 105 A

(110 V) 3 Poles in Series, 60 °C 90 A

(110 V) 3 Poles in Series, 70 °C 80 A

(220 V) 3 Poles in Series, 40 °C 105 A
(220 V) 3 Poles in Series, 60 °C 90 A
(220 V) 3 Poles in Series, 70 °C 80 A
(72 V) 1-Pole, 40 °C 105 A
(72 V) 1-Pole, 60 °C 90 A
(72 V) 1-Pole, 70 °C 80 A
(72 V) 2 Poles in Series, 40 °C 105 A
(72 V) 2 Poles in Series, 60 °C 90 A
(72 V) 2 Poles in Series, 70 °C 80 A
(72 V) 3 Poles in Series, 40 °C 105 A
(72 V) 3 Poles in Series, 60 °C 90 A
(72 V) 3 Poles in Series, 70 °C 80 A

Rated Operational Current DC-5 (I_o):

(110 V) 2 Poles in Series, 40 °C 105 A
(110 V) 2 Poles in Series, 60 °C 90 A
(110 V) 2 Poles in Series, 70 °C 80 A
(110 V) 3 Poles in Series, 40 °C 105 A
(110 V) 3 Poles in Series, 60 °C 90 A
(110 V) 3 Poles in Series, 70 °C 80 A
(220 V) 3 Poles in Series, 40 °C 105 A
(220 V) 3 Poles in Series, 60 °C 90 A
(220 V) 3 Poles in Series, 70 °C 80 A
(72 V) 1-Pole, 40 °C 105 A
(72 V) 1-Pole, 60 °C 90 A
(72 V) 1-Pole, 70 °C 80 A
(72 V) 2 Poles in Series, 40 °C 105 A
(72 V) 2 Poles in Series, 60 °C 90 A
(72 V) 2 Poles in Series, 70 °C 80 A
(72 V) 3 Poles in Series, 40 °C 105 A
(72 V) 3 Poles in Series, 60 °C 90 A
(72 V) 3 Poles in Series, 70 °C 80 A

Rated Operational Power AC-3 (P_o):

(400 V) 30 kW
(415 V) 37 kW
(440 V) 37 kW
(500 V) 37 kW
(690 V) 37 kW
(380 / 400 V) 30 kW
(220 / 230 / 240 V) 18.5 kW

Rated Operational Power AC-3e (P_e):

(415 V) 37 kW
(440 V) 37 kW
(500 V) 37 kW
(690 V) 37 kW
(380 / 400 V) 30 kW
(220 / 230 / 240 V) 18.5 kW

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

at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A

Maximum Breaking Capacity:

cos phi=0.45 (cos phi=0.35 for I_e > 100 A) at 440 V 950 A
cos phi=0.45 (cos phi=0.35 for I_e > 100 A) at 690 V 600 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

(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 7 W

at Rated Operating Conditions AC-3 per Pole 2.7 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

TH35-7.5 (35 x 7.5 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 4 ... 35 mm²

Flexible with Insulated Ferrule 1/2x 4 ... 35 mm²

Rigid Stranded 1/2x 6 ... 35 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 16 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 4 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) 90 A

Horsepower Rating UL/CSA:

(120 V AC) Single Phase 5 hp

(200 ... 208 V AC) Three Phase 20 hp

(220 ... 240 V AC) Three Phase 25 hp

(240 V AC) Single Phase 15 hp

(440 ... 480 V AC) Three Phase 50 hp

(550 ... 600 V AC) Three Phase 60 hp

Connecting Capacity Main Circuit UL/CSA:

Rigid Stranded 1/2x 10-2 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 35 in-lb

Full Load Amps Motor Use:

(120 V AC) Single Phase 56 A

(200 ... 208 V AC) Three Phase 62.1 A

(220 ... 240 V AC) Three Phase 68 A

(240 V AC) Single Phase 68 A

(440 ... 480 V AC) Three Phase 65 A

(550 ... 600 V AC) Three Phase 62 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:

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

SCIP:

e9b43d1b-dd25-4049-9500-e96dae069812 France

Simplified SCIP:

4f8f9097-4d3f-40f2-ab71-de08f01520c1 Poland
 3c9c39cd-1f36-40cb-bd2e-cbdb489ca0d3 Norway
 7ee99c18-1a43-42d9-8de2-80aefe2bc295 Spain
 5c5a0e9f-1f11-470e-a9eb-5d5eae2ce325 Germany
 49cec99c-43cf-4caf-a582-f7fdbb48fa78 Finland
 242d911d-693f-4802-9162-38f75bfbf158 Italy
 034afccd-5d3c-4f17-a5d4-41c3d33662aa Germany
 a7cbf824-baa3-405d-b1f0-9b43b9a5c174 Netherlands
 9112a6a0-74e8-4e47-89ba-c82c10a2be98 Greece
 7b2d5a1d-bfe8-4627-b7a9-4817986425e5 Denmark
 d83d4331-2a05-4711-a887-a739649a699a Germany
 2c45b13f-ccd4-438b-893d-a1fd3a931798 Czech Republic
 4935f90b-1a61-4100-9d9b-b7f0480976a4 Poland
 2d663d0b-9e40-4dcd-b3b3-908840fa7414 Sweden
 26f7d5b6-c240-4975-ad30-c60b9a55b4ec Poland
 cb6c25f4-3570-4f71-9b53-994499d0f1f5 France
 a031f8e6-578e-42c3-85bd-8ce5128a8b44 Portugal
 22cf40dd-3fdc-46aa-aa67-9a7c3429b359 Hungary
 5b11f3b5-236c-45a1-bf65-22616ac89baf Belgium
 c918f036-cd2d-40ce-9a0a-0d21cc7e8ede Bulgaria
 48dcdcfb-6ae6-4ee9-8d97-071323301bbd Sweden
 7f440d90-9fa6-45bc-8dd8-3fc8af21a148 Germany
 3bada221-ca3f-45e1-be5a-cc897c807c4d 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 AF(S)40/52/65/80/96(B)(RT) Contactors

Environmental Product Declaration - EPD:

Environmental Product Declaration AF40, AF52, AF65 (CN)

Environmental Product Declaration AF(S)40(B), AF(S)52(B), AF(S)65(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\(S\)40\(B\), \(S\)AF52\(B\), AF\(S\)65\(B\) 3 and 4-pole contactors](#)

CCC Certificate:

[CQC Certificate, Contactor, AF*40-30-**-**, AF40-40-**-**, AF40-22-**-**, AF*52-30-**-**, AF52-40-**-**, AF*65-30-**-**, Made in France](#)

CQC Certificate:

[CQC Certificate, Contactor, AF*40-30-**-**, AF40-40-**-**, AF40-22-**-**, AF*52-30-**-**, AF52-40-**-**, AF*65-30-**-**, Made in France](#)

[CQC Certificate, Contactor, AF40, AF52, AF65, AFC40, AFC52, AFC65, Made in China](#)

Declaration of Conformity - CCC:

[CCC Declaration of Conformity, Contactor, AF*40-30-**-**, AF40-40-**-**, AF40-22-**-**, AF*52-30-**-**, AF52-40-**-**, AF*65-30-**-**, Made in France](#)

[CCC Declaration of Conformity, Contactor, AF\(C\)40, AF52\(C\), AF65\(C\), AFC78 Made in China](#)

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 AF65 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-L312527-1141-10303102-9](#)

[UL-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:

97 mm

Package Level 1 Gross Weight:

1.05 kg

Package Level 1 EAN:

3471523132634

Package Level 2 Units:

box 10 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:

10.5 kg

Package Level 3 Units:

240 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):

3707048

E-Number (Sweden):

3210045



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