



AF205-30-00-13

[Print to PDF](#)

General Information

Extended Product Type:

AF205-30-00-13

Product ID:

1SFL527002R1300

EAN:

7320500480526

Catalog Description:

AF205-30-00-13 Contactor

Long Description:

The AF205-30-00-13 is a 3 pole - 1000 V IEC or 600 V UL contactor with Main Circuit Bars, controlling motors up to 110 kW / 400 V AC (AC-3) or 150 hp / 480 V UL and switching power circuits up to 350 A (AC-1) or 300 A UL general use. Thanks to the AF technology, the contactor has a wide control volt... [Show more](#)

[Read More](#)[Add to Cart](#)[Data Sheet](#)[Downloads](#)[Buy now](#)[Categories](#)[Related Links](#)[Related Products](#)

Go To Section:

Ordering
Popular Downloads
Dimensions
Technical
Technical UL/CSA
Environmental
Material Compliance
ABB EcoSolutions
Certificates and Declarations
Container Information
External Classifications and Standards
Accessories

Ordering

Minimum Order Quantity:

1 piece

Customs Tariff Number:

85364900

Popular Downloads

EPLAN Data:

[EPLAN EDZ AF205](#)

Data Sheet, Technical Information:

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

Data Sheet, Technical Information (Part 2):

[Contactors and Overload relays guide](#)

Instructions and Manuals:

[Operating instruction, Contactor, AF\(S\)190 ... AF\(S\)370](#)

CAD Dimensional Drawing:

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

Dimensions

Product Net Width:

105 mm

Product Net Depth / Length:

152 mm

Product Net Height:

196 mm

Product Net Weight:

2.4 kg

Dimension Diagram:

[1SFB535001G1056.pdf](#)

 diagram

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

Rated Operational Voltage:

Main Circuit 1000 V

Rated Frequency (f):

Main Circuit 50 / 60 Hz

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

acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 350 A

Rated Operational Current AC-1 (I_e):

(1000 V) 40 °C 275 A

(1000 V) 55 °C 250 A

(1000 V) 60 °C 250 A

(1000 V) 70 °C 200 A

(690 V) 40 °C 350 A

(690 V) 55 °C 300 A

(690 V) 70 °C 240 A

Rated Operational Current AC-3 (I_e):

(415 V) 55 °C 205 A

(440 V) 55 °C 205 A

(500 V) 55 °C 186 A

(690 V) 55 °C 165 A

(1000 V) 55 °C 100 A

(380 / 400 V) 55 °C 205 A

(220 / 230 / 240 V) 55 °C 205 A

Rated Operational Current DC-1 (I_e):

(110 V) 2 Poles in Series, 40 °C 275 A

(220 V) 3 Poles in Series, 40 °C 275 A

Rated Operational Current DC-3 (I_e):

(110 V) 2 Poles in Series, 40 °C 275 A

(220 V) 3 Poles in Series, 40 °C 275 A

Rated Operational Current DC-5 (I_e):

(110 V) 2 Poles in Series, 40 °C 275 A

(220 V) 3 Poles in Series, 40 °C 275 A

Rated Operational Power AC-3 (P_e):

(415 V) 110 kW

(440 V) 132 kW

(500 V) 132 kW

(690 V) 160 kW

(1000 V) 132 kW

(380 / 400 V) 110 kW

(220 / 230 / 240 V) 55 kW

Rated Breaking Capacity AC-3:

8 x I_e AC-3

Rated Breaking Capacity AC-3e:

8.5 x I_e AC-3e

Rated Making Capacity AC-3:

10 x I_e AC-3

Rated Making Capacity AC-3e:

12 x I_e AC-3e

Short-Circuit Protective Devices:

gG Type Fuses 400 A

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

at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 947 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2050 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1640 A
at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 670 A

Maximum Breaking Capacity:

cos phi=0.45 (cos phi=0.35 for I_e > 100 A) at 440 V 3500 A
cos phi=0.45 (cos phi=0.35 for I_e > 100 A) at 690 V 2500 A

Rated Insulation Voltage (U_i):

acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
acc. to UL/CSA 600 V

Rated Impulse Withstand Voltage (U_{imp}):

Main Circuit 8 kV

Maximum Electrical Switching Frequency:

(AC-1) 300 cycles per hour
(AC-2 / AC-4) 150 cycles per hour
(AC-3) 300 cycles per hour

Mechanical Durability:

5 million

Maximum Mechanical Switching Frequency:

300 cycles per hour

Coil Operating Limits:

(acc. to IEC 60947-4-1) 0.85 x U_c Min. ... 1.1 x U_c Max. (at θ ≤ 70 °C)

Rated Control Circuit Voltage (U_c):

50 Hz 100 ... 250 V
60 Hz 100 ... 250 V
DC Operation 100 ... 250 V

Coil Consumption:

Holding at Max. Rated Control Circuit Voltage 50 Hz 26.8 V·A
Holding at Max. Rated Control Circuit Voltage 60 Hz 26.8 V·A
Holding at Max. Rated Control Circuit Voltage DC 3.5 V·A
Holding at Max. Rated Control Circuit Voltage DC 3.5 W
Pull-in at Max. Rated Control Circuit Voltage 50 Hz 285 V·A
Pull-in at Max. Rated Control Circuit Voltage 60 Hz 285 V·A
Pull-in at Max. Rated Control Circuit Voltage DC 360 V·A
Pull-in at Max. Rated Control Circuit Voltage DC 360 W

Power Loss:

at Rated Operating Conditions per Pole 8 W

Operate Time:

Between Coil De-energization and NO Contact Opening 37 ... 47 ms
Between Coil Energization and NO Contact Closing 25 ... 55 ms

Connecting Capacity Main Circuit:

Flexible 2 x 50 ... 95 mm²
Rigid Al-Cable 1 x 95 ... 185 mm²
Rigid Cu-Cable 2 x 50 ... 120 mm²

Connecting Capacity Auxiliary Circuit:

Flexible with Ferrule 2x 0.75 ... 2.5 mm²
Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm²

Flexible 2x0.75 ... 2.5 mm²

Solid 2 x 1 ... 4 mm²

Stranded 1 x 1 4 mm²

Stranded 2 x 1 4 mm²

Connecting Capacity:

Flexible 2 x 50 ... 95 mm²

Rigid Al-Cable 1 x 95 ... 185 mm²

Rigid Cu-Cable 2 x 50 ... 120 mm²

Degree of Protection:

acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40

acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20

acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00

Tightening Torque:

Cable Lug 9 N·m

Main Circuit 14 ... 31 N·m

Terminal Type:

Main Circuit: Bars

Product Name:

Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:

Main Circuit 600 V

General Use Rating UL/CSA:

(1000 V AC) 275 A

Horsepower Rating UL/CSA:

(200 V AC) Three Phase 60 hp

(208 V AC) Three Phase 60 hp

(220 ... 240 V AC) Three Phase 75 hp

(440 ... 480 V AC) Three Phase 150 hp

(550 ... 600 V AC) Three Phase 200 hp

Full Load Amps Motor Use:

(440 ... 480 V AC) Three Phase 180 A

(550 ... 600 V AC) Three Phase 192 A

Environmental

Ambient Air Temperature:

Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C

Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C

Close to Contactor for Storage -40 ... 70 °C

Maximum Operating Altitude Permissible:

Without Derating 3000 m

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 Declaration:

RoHS II declaration for block contactors, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories

RoHS Information:

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

ABB Site Meeting Group Waste To Landfill Target:

Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility

UL 2799 Zero Waste To Landfill Validation available

EcoSolutions Profile:

EcoSolutions Profile AF contactors

End Of Life Disassembling Instructions:

End-of-life instruction - AF(S)116(B)-**(RT) to AF(S)205(B)-**(RT)

Environmental Product Declaration - EPD:

Environmental Product Declaration, AF190-AF205 (SE) Contactors
2TFP200018A1001

Extended Product Lifetime:

Product Durability

Improved Energy Efficiency for Customers:

Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line

Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line

Recyclability Rate of the Product acc. to EN45555:

Design for Closing Resource Loops - Standard EN45555 - 79.1 %

Certificates and Declarations

A2L Certificate – UL:

UL Certificate of Compliance A2L, Contactor, AF190 - AF370

ABS Certificate:

ABS Approval, Contactor, AF116 ... AF370 (Sweden)

ABS Approval, Contactor, AF116 ... AF370 (China)

BV Certificate:

BV Certificate, Contactor, AF116-30 ... AF370-30...AF116-40...AF370-40

CB Certificate:

SE-82315

CCS Certificate:

CCS Certificate, Contactor, AF116 to AF2850 (Sweden)

CQC Certificate:

CQC Certificate, AC Contactor, AF190-**-*, AF205-**-*, AF190B-**-*, AF205B-**-*, AFS190-30-**-*, AFS205-30-**-*, Made in Sweden

CQC Certificate, Contactor, AF190, AF205, Made in China

Declaration of Conformity - CCC:

CCC Declaration of Conformity, AC Contactor, AF190-**-*, AF205-**-*, AF190B-**-*, AF205B-**-*, AFS190-30-**-*, AFS205-30-**-*, Made in Sweden

CCC Declaration of Conformity, Contactor, AF190, AF205, Made in China

Declaration of Conformity - CE:

[CE Declaration of Conformity - Contactor - AF116...AF370](#)

Declaration of Conformity - UKCA:

[UK Declaration of Conformity - Contactors >100A](#)

DNV Certificate:

[DNV-certificate, Contactors, AF116-30...AF370-30 and AF116-40...AF370-40](#)

GL Certificate:

[GL 95072-14HH](#)

KC Certificate:

[KC Safety Certificate, Contactor, AF190-30...AF205-30](#)

LR Certificate:

[Lloyds register Certificate, Contactor, AF116...AF2850](#)

PRS Certificate:

[PRS Certificate - AF116...AF1650](#)

RINA Certificate:

[RINA Certificate, AF95, AF110, AF145, AF185, AF210, AF260, AF300, AF400, AF460, AF580, AF750, AF1250, AF1350, AF1650, AF2050, AF2650, AF116, AF140, AF146, AF190, AF205, AF265, AF305, AF370](#)

RMRS Certificate:

[9AKK107045A6978](#)

UL Certificate:

[cULus Certificate, Contactor, AF190-30, AF205-30, AFS190-30, AFS205-30](#)

UL Listing Card:

[UL E36588](#)

Container Information

Package Level 1 Units:

box 1 piece

Package Level 1 Width:

160 mm

Package Level 1 Depth / Length:

258 mm

Package Level 1 Height:

235 mm

Package Level 1 Gross Weight:

3 kg

Package Level 1 EAN:

7320500480526

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:

UNSPSC:

39121529

IDEA Granular Category Code (IGCC):

4758 >> Iec Contactors

E-Number (Finland):

3706461

E-Number (Norway):

3210138

Accessories

2 Products

Identifier	Description	Type	Qty	Unit Of Measure	Actions
1SFN170801R1001	RU19/120 LVRT-Module	RU19/120	1	piece	
1SFN170801R1002	RU19/240 LVRT-Module	RU19/240	1	piece	

PRODUCTS[Offerings A-Z](#)[Services](#)[Where to buy](#)INDUSTRY SOLUTIONS[Channel partners](#)[Buildings and infrastructure](#)[Industrial automation](#)[Marine](#)[Oil & gas](#)[Power generation](#)INVESTORS[Investor & shareholder resources](#)[Quarterly results & annual reports](#)[Corporate governance](#)[Calendar, events and publications](#)COMPANY[Customer events](#)[News & media](#)[Who we are](#)[Innovation](#)[Careers](#)[Sustainability](#)[Supplying](#)[Provider information](#)[Privacy Notice](#)[Cookie settings](#)

© 1995 - 2026