



AF205-30-22-43

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General Information

Extended Product Type:

AF205-30-22-43

Product ID:

1SFL527002R4322

EAN:

7320500561034

Catalog Description:

AF205-30-22-43 Contactor

Long Description:

The AF205-30-22-43 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 control voltage r... [Show more](#)

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Ordering

Minimum Order Quantity:

1 piece

Customs Tariff Number:

8536490099

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:

125 mm

Product Net Depth / Length:

152 mm

Product Net Height:

196 mm

Product Net Weight:

2.4 kg

Technical

Number of Main Contacts NO:

Number of Main Contacts NC:

0

Number of Auxiliary Contacts NO:

2

Number of Auxiliary Contacts NC:

2

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) 60 °C 250 A

(1000 V) 70 °C 200 A

(690 V) 40 °C 350 A

(690 V) 60 °C 300 A

(690 V) 70 °C 240 A

Rated Operational Current AC-3 (I_e):

(415 V) 60 °C 205 A

(440 V) 60 °C 205 A

(500 V) 60 °C 186 A

(690 V) 60 °C 165 A

(1000 V) 60 °C 100 A

(380 / 400 V) 60 °C 205 A

(220 / 230 / 240 V) 60 °C 205 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 Making Capacity AC-3:**10 x I_e AC-3**Rated Short-time Withstand Current Low Voltage (I_{cw}):**

at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 400 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 A

Maximum Breaking Capacity:cos ϕ =0.45 (cos ϕ =0.35 for $I_e > 100$ A) at 440 V 3500 Acos ϕ =0.45 (cos ϕ =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 1000 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

Rated Control Circuit Voltage (U_c):

50 Hz 220 ... 240 V
60 Hz 220 ... 240 V

Coil Consumption:

Holding at Max. Rated Control Circuit Voltage 50 Hz 8 V·A
Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 W
Holding at Max. Rated Control Circuit Voltage 60 Hz 8 V·A
Holding at Max. Rated Control Circuit Voltage 60 Hz 2.5 W
Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A
Pull-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A

Power Loss:

at Rated Operating Conditions AC-1 per Pole 25 W
at Rated Operating Conditions AC-3 per Pole 8 W

Operate Time:

Between Coil De-energization and NO Contact Opening 15 ... 30 ms
Between Coil Energization and NO Contact Closing 20 ... 35 ms

Connecting Capacity Auxiliary Circuit:

Flexible with Ferrule 1x 0.75 ... 2.5 mm²
Flexible with Ferrule 2x 0.75 ... 2.5 mm²
Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²
Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm²
Flexible 1x 0.75 ... 2.5 mm²
Flexible 2x 0.75 ... 2.5 mm²
Solid 1x 1 ... 4 mm²
Solid 2x 1 ... 4 mm²
Stranded 1x 1 ... 4 mm²
Stranded 2x 1 ... 4 mm²

Connecting Capacity:

Flexible 2 x 50 ... 95 mm²
Rigid Al-Cable 1 x 95 ... 185 mm²
Rigid Cu-Cable 1 x 6 ... 150 mm²

Wire Stripping Length:

Auxiliary Circuit 9 mm
Control Circuit 9 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 IP00

Recommended Screw Driver:

Main Circuit M8
Control Circuit M3.5

Tightening Torque:

Auxiliary Circuit 1 N·m
Cable Lug 18 N·m
Control Circuit 1 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 1000 V

General Use Rating UL/CSA:

(1000 V AC) 275 A

Horsepower Rating UL/CSA:

(200 ... 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

Tightening Torque UL/CSA:

Auxiliary Circuit 9 in·lb

Control Circuit 9 in·lb

Main Circuit 301 in·lb

Full Load Amps Motor Use:

(200 ... 208 V AC) Three Phase 177 A

(220 ... 240 V AC) Three Phase 192 A

(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 ... 55 °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:

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

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

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)

Declaration of Conformity - CE:

CE Declaration of Conformity - Contactor - AF116...AF370

Declaration of Conformity - UKCA:

UK Declaration of Conformity - Contactors >100A

UL Certificate:

cULus Certificate, Contactor, AF190-30, AF205-30, AFS190-30, AFS205-30

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:

7320500561034

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

Accessories**Filters**

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20 Products

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Identifier	Description	Type	Qty	Unit Of Measure	Actions
1SFN074703R1000	LY185 Connecting Strip	LY185	1	piece	
1SFN074807R1000	LW205 Terminal Enlargement	LW205	1	piece	
1SFN074810R1000	LX205 Terminal Extension	LX205	1	piece	
1SFN074807R2000	LW205-40 Terminal Enlargement	LW205-40	1	piece	
1SFN010820R1011	CAL19-11 Auxiliary Contact Block	CAL19-11	1	piece	

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