



AF205-40-11-12

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General Information

Extended Product Type:

AF205-40-11-12

Product ID:

1SFL527102R1211

EAN:

7320500503713

Catalog Description:

AF205-40-11-12 Contactor

Long Description:

The AF205-40-11-12 is a 4 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 110 kW / 400 V AC (AC-3) / and switching power circuits up to 350 A (AC-1) or 250 A UL general use. Thanks to the AF technology, the contactor has a w... [Show more](#)

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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:

140 mm

Product Net Depth / Length:

152.5 mm

Product Net Height:

195.6 mm

Product Net Weight:

3.3 kg

Dimension Diagram:

[Dimension Drawing, Contactor, AF190, AF205](#)

 diagram

Technical

Number of Main Contacts NO:

4

Number of Main Contacts NC:

0

Number of Auxiliary Contacts NO:

1

Number of Auxiliary Contacts NC:

1

Number of Poles:

4P

Rated Operational Voltage:

Main Circuit 1000 V

Rated Frequency (f):

Main Circuit 60 Hz

Main Circuit 50 / 60 Hz

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

acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 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) 55 °C 205 A

(440 V) 55 °C 205 A

(380 / 400 V) 55 °C 205 A

(220 / 230 / 240 V) 55 °C 205 A

Rated Operational Power AC-3 (P_e):

(415 V) 110 kW

(440 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

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-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 $\theta \leq 70$ °C)

Rated Control Circuit Voltage (U_c):

50 Hz 48 ... 130 V

60 Hz 48 ... 130 V

DC Operation 48 ... 130 V

Coil Consumption:

Holding at Max. Rated Control Circuit Voltage 50 Hz 14.5 V·A

Holding at Max. Rated Control Circuit Voltage 60 Hz 14.5 V·A

Holding at Max. Rated Control Circuit Voltage DC 2.5 V·A

Holding at Max. Rated Control Circuit Voltage DC 2.5 W

Pull-in at Max. Rated Control Circuit Voltage 50 Hz 340 V·A

Pull-in at Max. Rated Control Circuit Voltage 60 Hz 340 V·A

Pull-in at Max. Rated Control Circuit Voltage DC 465 V·A

Pull-in at Max. Rated Control Circuit Voltage DC 465 W

Power Loss:

at Rated Operating Conditions per Pole 25 W

Operate Time:

Between Coil De-energization and NO Contact Opening 45 ... 80 ms

Between Coil Energization and NO Contact Closing 25 ... 60 ms

Connecting Capacity Main Circuit:

Flexible 1 x 6 ... 120 mm²

Flexible 2 x 50 ... 95 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 2 x 1 ... 4 mm²

Connecting Capacity:

Flexible 2 x 50 ... 95 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:

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 ... 208 V AC) Three Phase 30 Hp

(200 V AC) Three Phase 60 hp

(208 V AC) Three Phase 60 hp

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

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

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

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

(550 ... 600 V AC) Three Phase 100 Hp

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

Environmental

Ambient Air Temperature:

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

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

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

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:

SEMKO SE-77322

CQC Certificate:

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

Declaration of Conformity - CCC:

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

Declaration of Conformity - CE:

CE Declaration of Conformity - Contactor - AF116B...RT to AF370B...RT

Declaration of Conformity - UKCA:

UK Declaration of Conformity - Contactors >100A

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, AF190-40, AF205-40 (4-pole)

Container Information

Package Level 1 Units:

box 1 piece

Package Level 1 Width:

166 mm

Package Level 1 Depth / Length:

238 mm

Package Level 1 Height:

180 mm

Package Level 1 Gross Weight:

3.9 kg

Package Level 1 EAN:

7320500503713

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):

3707199

E-Number (Norway):

3210330

E-Number (Sweden):

3210330

Accessories

Filters

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12 Products

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Identifier	Description	Type	Qty	Unit Of Measure	Actions
1SFN010820R1011	CAL19-11 Auxiliary Contact Block	CAL19-11	1	piece	
1SFN010820R3311	CAL19-11B Auxiliary Contact Block	CAL19-11B	1	piece	
1SFN010832R1001	CEL19-01 Auxiliary Contact Block	CEL19-01	1	piece	
1SFN010832R1010	CEL19-10 Auxiliary Contact Block	CEL19-10	1	piece	
1SFN074208R2000	LD146-40 Connection Module	LD146-40	1	piece	

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