



360°



ABB
Eco
Solutions™

AF205-40-11-11

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General Information

Extended Product Type:

AF205-40-11-11

Product ID:

1SFL527102R1111

EAN:

7320500503720

Catalog Description:

AF205-40-11-11 Contactor

Long Description:

The AF205-40-11-11 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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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 24 ... 60 V

60 Hz 24 ... 60 V

DC Operation 20 ... 60 V

Coil Consumption:

Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V-A

Holding at Max. Rated Control Circuit Voltage 60 Hz 10 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 245 V-A

Pull-in at Max. Rated Control Circuit Voltage 60 Hz 245 V-A

Pull-in at Max. Rated Control Circuit Voltage DC 370 V-A

Pull-in at Max. Rated Control Circuit Voltage DC 370 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 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 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 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:

7320500503720

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):

3707196

E-Number (Norway):

4117784

E-Number (Sweden):

3210329

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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