



PRODUCT-DETAILS

# AF205-30-11-13

## AF205-30-11-13 Contactor



General Information	
Extended Product Type:	AF205-30-11-13
Product ID:	1SFL527002R1311
EAN:	7320500480564
Catalog Description:	AF205-30-11-13 Contactor
Long Description:	The AF205-30-11-13 is a 3 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) 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 voltage range (100-250 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. Includes Mounting kit, containing all necessary screws, washers and sockets for connecting the terminals, and screws for mounting the device.
Display Name:	AF205-30-11-13

Ordering	
Minimum Order Quantity:	1 piece

Customs Tariff Number: 85364900

## Popular Downloads

EPLAN Data:	9AAC174542_EPLAN
Data Sheet, Technical Information:	1SBC100214C0202
Data Sheet, Technical Information (Part 2):	1SAC200017M0002
Instructions and Manuals:	1SFC100008M0201
CAD Dimensional Drawing:	2CDC001079B0201

## 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

## Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	1
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) 55 °C 300 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 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

<b>Rated Operational Current DC-5 (<math>I_e</math>):</b>	(110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(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
<b>Rated Breaking Capacity AC-3:</b>	8 x $I_e$ AC-3
<b>Rated Making Capacity AC-3:</b>	10 x $I_e$ AC-3
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 400 A
<b>Rated Short-time Withstand Current Low Voltage (<math>I_{cw}</math>):</b>	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 350 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
<b>Maximum Breaking Capacity:</b>	$\cos \phi=0.45$ ( $\cos \phi=0.35$ 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
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 1000 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Main Circuit 8 kV
<b>Maximum Electrical Switching Frequency:</b>	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
<b>Mechanical Durability:</b>	5 million
<b>Maximum Mechanical Switching Frequency:</b>	300 cycles per hour
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x $U_c$ Min. ... 1.1 x $U_c$ Max. (at $\theta \leq 70$ °C)
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
<b>Coil Consumption:</b>	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
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 8 W
<b>Operate Time:</b>	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
<b>Connecting Capacity Main Circuit:</b>	Flexible 2 x 50 ... 95 mm <sup>2</sup> Rigid Al-Cable 1 x 95 ... 185 mm <sup>2</sup> Rigid Cu-Cable 1 x 6 ... 150 mm <sup>2</sup>
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 2x0.75 ... 2.5 mm <sup>2</sup> Solid 1 x 1 ... 4 mm <sup>2</sup> Stranded 1 x 1 ... 4 mm <sup>2</sup>
<b>Connecting Capacity:</b>	Flexible 2 x 50 ... 95 mm <sup>2</sup> Rigid Al-Cable 1 x 95 ... 185 mm <sup>2</sup> Rigid Cu-Cable 2 x 50 ... 120 mm <sup>2</sup>
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00

<b>Tightening Torque:</b>	Cable Lug 18 N-m Main Circuit 14 ... 31 N-m
<b>Terminal Type:</b>	Main Circuit: Bars
<b>Product Name:</b>	Block Contactor

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 1000 V
<b>General Use Rating UL/CSA:</b>	(1000 V AC) 275 A
<b>Horsepower Rating UL/CSA:</b>	(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
<b>Full Load Amps Motor Use:</b>	(440 ... 480 V AC) Three Phase 180 A (550 ... 600 V AC) Three Phase 192 A

## Environmental

<b>Ambient Air Temperature:</b>	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
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**Maximum Operating Altitude Permissible:** Without Derating 3000 m

## Material Compliance

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	2CMT2021-006202
<b>RoHS Declaration:</b>	2CMT2021-006277
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006525
<b>WEEE B2C / B2B:</b>	Business To Business
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)

## ABB EcoSolutions

<b>ABB EcoSolutions:</b>	Yes
<b>ABB Site Meeting Group Waste To Landfill Target:</b>	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
<b>EcoSolutions Profile:</b>	1SFC100125C0366
<b>End Of Life Disassembling Instructions:</b>	1SFC100112M0001
<b>Environmental Product Declaration - EPD:</b>	1SFC100095D0201 2TFP200018A1001
<b>Extended Product Lifetime:</b>	Product Durability

<b>Improved Energy Efficiency for Customers:</b>	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
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<b>Recyclability Rate of the Product acc. to EN45555:</b>	Design for Closing Resource Loops - Standard EN45555 - 79.1 %
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## Certificates and Declarations

<b>A2L Certificate – UL:</b>	9AKK108468A6695
<b>ABS Certificate:</b>	14-LD1092198-PDA 14-LD1092198-1-PDA-DUP
<b>BV Certificate:</b>	BV_36353_A0BV
<b>CB Certificate:</b>	SE-82315
<b>CCS Certificate:</b>	GB14T00030
<b>CQC Certificate:</b>	CQC2014010304676685 CQC2014010304724672
<b>Declaration of Conformity - CCC:</b>	2020980304001306 2020980304001071
<b>Declaration of Conformity - CE:</b>	2CMT2015-005439
<b>Declaration of Conformity - UKCA:</b>	2CMT2020-006118
<b>DNV Certificate:</b>	DNV_E-14043
<b>GL Certificate:</b>	GL_95072-14HH
<b>KC Certificate:</b>	9AKK107046A9912
<b>LR Certificate:</b>	16-20064
<b>PRS Certificate:</b>	TE_2092_880423_16
<b>RINA Certificate:</b>	ELE060313XG_002
<b>RMRS Certificate:</b>	9AKK107045A6978
<b>UL Certificate:</b>	20121023-E36588
<b>UL Listing Card:</b>	UL_E36588

## Container Information

<b>Package Level 1 Units:</b>	box 1 piece
<b>Package Level 1 Width:</b>	160 mm
<b>Package Level 1 Depth / Length:</b>	258 mm
<b>Package Level 1 Height:</b>	235 mm
<b>Package Level 1 Gross Weight:</b>	3 kg
<b>Package Level 1 EAN:</b>	7320500480564

## External Classifications and Standards

<b>Object Classification Code:</b>	Q
<b>ETIM 7:</b>	EC000066 - Power contactor, AC switching
<b>ETIM 8:</b>	EC000066 - Power contactor, AC switching

ETIM 9:	EC000066 - Power contactor, AC switching
eClass:	V11.0 : 27371003
UNSPSC:	39121529
IDEA Granular Category Code (IGCC):	4758 >> lec Contactors
E-Number (Finland):	3706462
E-Number (Norway):	4117641
E-Number (Sweden):	3210147

Accessories

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

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > AF Contactors > AF205

