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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

Ordering

Minimum Order Quantity 1 piece
Customs Tariff Number 85364900

## Popular Downloads

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Data Sheet, Technical	1SBC100214C0202
Information	19EC100008M0201
Instructions and Manuals CAD Dimensional	1SFC100008M0201 2CDC001079B0201
Dimension Diagram	1SFB535001G1056
Dimensions	
Product Net Width	105 mm
Product Net Depth / Length	152 mm
Product Net Height	196 mm
Product Net Weight	2.4 kg
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 <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 350 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(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 <sub>e</sub> )	(415 V) 55 °C 205 A (4415 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 <sub>e</sub> )	(220 / 230 / 240 V) 35 ° C 203 A (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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 le AC-3
Rated Making Capacity AC-3	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 400 A
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	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
@ 2024 ADD All violete versend	0004/40/00

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Maximum Breaking Capacity Co Rated Insulation Voltage (Ui) Rated Impulse Withstand Voltage (Uipp) Maximum Electrical Switching Frequency Mechanical Durability Maximum Mechanical Switching Frequency Coil Operating Limits (acc. to IEC of Section 1) Rated Control Circuit Voltage (Uc)  Coil Consumption H Pupper Pupper Power Loss Operate Time Between Connecting Capacity Main Circuit  Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit	Ambient Temp, in Free Air, from a Cold State 30 s 947 A s phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3500 A s phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 2500 A acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V  Main Circuit 8 kV  (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour 5 million 300 cycles per hour 5 million 250 V 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V olding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 220 V·A II-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A
Rated Impulse Withstand Voltage (U <sub>imp</sub> )  Maximum Electrical Switching Frequency  Mechanical Durability  Maximum Mechanical Switching Frequency  Coil Operating Limits (acc. to IEC of Rated Control Circuit Voltage (U <sub>c</sub> )  Coil Consumption  H  Pu Pu Pu Pu Connecting Capacity Main Circuit  Connecting Capacity  Auxiliary Circuit  Connecting Capacity  Connecting Capacity  Connecting Capacity  Connecting Capacity  Connecting Capacity  Connecting Capacity  Connecting Capacity	acc. to UL/CSA 600 V  Main Circuit 8 kV  (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour 5 million 300 cycles per hour 5 million 300 cycles per hour 5 million 250 V 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V DC Operation 100 250 V Olding at Max. Rated Control Circuit Voltage 50 Hz 7 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 220 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 220 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V-A Pull-in at Max. Rated Control Circuit Voltage DC 190 W
Voltage (Ü <sub>limp</sub> )  Maximum Electrical Switching Frequency  Mechanical Durability  Maximum Mechanical Switching Frequency  Coil Operating Limits (acc. to IEC of Section 1)  Coil Consumption Here  Power Loss Operate Time Between Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit  Connecting Capacity  Connecting Capacity  Connecting Capacity  Connecting Capacity  Connecting Capacity  Connecting Capacity	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-2 / AC-4) 150 cycles per hour 5 million 300 cycles per hour 5 million 300 cycles per hour 5 million 300 cycles per hour 60947-4-1) $0.85 \times Uc$ Min $1.1 \times Uc$ Max. (at $\theta \le 70$ °C) 50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V DC Operation 100 250 V Olding at Max. Rated Control Circuit Voltage 50 Hz 7 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 220 V-A II-in at Max. Rated Control Circuit Voltage 50 Hz 220 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V-A Pull-in at Max. Rated Control Circuit Voltage DC 190 W
Switching Frequency  Mechanical Durability  Maximum Mechanical Switching Frequency  Coil Operating Limits  Rated Control Circuit Voltage (U <sub>c</sub> )  Coil Consumption  H  Pu Pu Pu  Pu Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit  Connecting Capacity	$(AC-2 \ / AC-4) \ 150 \ cycles \ per \ hour \ (AC-3) \ 300 \ cycles \ per \ hour \ 5 \ million \ 300 \ cycles \ per \ hour \ 60947-4-1) \ 0.85 \ x \ Uc \ Min \ 1.1 \ x \ Uc \ Max. \ (at \ \theta \le 70 \ ^{\circ}C) \ 50 \ Hz \ 100 \ \ 250 \ V \ 60 \ Hz \ 100 \ \ 250 \ V \ DC \ Operation \ 100 \ \ 250 \ V \ Olding \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 7 \ V-A \ Holding \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 7V-A \ Holding \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ HI-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ at \ Max. \ Rated \ Control \ Circuit \ Voltage \ 50 \ Hz \ 220 \ V-A \ Pull-in \ At \ At \ At \ Pull-in \ At \ $
Maximum Mechanical Switching Frequency  Coil Operating Limits (acc. to IEC of Rated Control Circuit Voltage (Uc)  Coil Consumption He Pure Pure Pure Pure Pure Pure Pure Pur	300 cycles per hour $ \begin{array}{c} 300 \text{ cycles per hour} \\ \hline 60947\text{-}4\text{-}1) \ 0.85 \ \text{x Uc Min.} \ \dots 1.1 \ \text{x Uc Max.} \ (\text{at } \theta \leq 70 \ ^{\circ}\text{C}) \\ \hline 50 \ \text{Hz} \ 100 \ \dots 250 \ \text{V} \\ \hline 60 \ \text{Hz} \ 100 \ \dots 250 \ \text{V} \\ \hline \text{DC Operation } 100 \ \dots 250 \ \text{V} \\ \hline \text{olding at Max.} \ \text{Rated Control Circuit Voltage } 50 \ \text{Hz} \ 7 \ \text{V·A} \\ \hline \text{olding at Max.} \ \text{Rated Control Circuit Voltage} \ 60 \ \text{Hz} \ 7 \ \text{V·A} \\ \hline \text{Holding at Max.} \ \text{Rated Control Circuit Voltage} \ \text{EV} \ 2.5 \ \text{W} \\ \hline \text{II-in at Max.} \ \text{Rated Control Circuit Voltage} \ 50 \ \text{Hz} \ 220 \ \text{V·A} \\ \hline \text{Pull-in at Max.} \ \text{Rated Control Circuit Voltage} \ DC \ 190 \ \text{W} \\ \hline \end{array} $
Switching Frequency Coil Operating Limits (acc. to IEC of Rated Control Circuit Voltage (Uc)  Coil Consumption H  Pu Pu Pu Pu Pu Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit  Connecting Capacity  Connecting Capacity  Connecting Capacity  Auxiliary Circuit	50947-4-1) $0.85 \times Uc$ Min $1.1 \times Uc$ Max. (at $\theta \le 70$ °C) 50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V DC Operation 100 250 V olding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W II-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A II-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage DC 190 W
Coil Operating Limits  Rated Control Circuit Voltage (U <sub>c</sub> )  Coil Consumption  H  Pu Pu Pu Pu Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit  Connecting Capacity  Connecting Capacity  Auxiliary Circuit  Connecting Capacity	50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V olding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A olding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W II-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A II-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage DC 190 W
Voltage (U <sub>c</sub> )  Coil Consumption  H  Pu  Pu  Power Loss  Operate Time  Between Connecting Capacity Main Circuit  Connecting Capacity  Auxiliary Circuit  Connecting Capacity  Connecting Capacity	60 Hz 100 250 V DC Operation 100 250 V DC Operation 100 250 V olding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A olding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W II-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A II-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage DC 190 W
Power Loss Operate Time Between Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit  Connecting Capacity  Connecting Capacity	olding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W II-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A II-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage DC 190 W
Operate Time  Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit  Connecting Capacity	1D 1 10 0 10 10 10 10 10 10 10 10 10 10 10
Connecting Capacity Main Circuit  Connecting Capacity Auxiliary Circuit  Connecting Capacity	at Rated Operating Conditions per Pole 8 W
Connecting Capacity Auxiliary Circuit  Connecting Capacity	oil De-energization and NO Contact Opening 37 47 ms on Coil Energization and NO Contact Closing 25 55 ms
Auxiliary Circuit  Connecting Capacity	Flexible 2 x 50 95 mm² Rigid Al-Cable 1 x 95 185 mm² Rigid Cu-Cable 1 x 6 150 mm²
	Flexible with Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 1 x 1 4 mm² Stranded 1 x 1 4 mm²
Degree of Protection acc. to	Flexible 2 x 50 95 mm² Rigid Al-Cable 1 x 95 185 mm²
	Rigid Cu-Cable 2 x 50 120 mm <sup>2</sup> IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 EC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Tightening Torque	Cable Lug 18 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	(600 V AC) 300 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	(440 480 V AC) Three Phase 180 A
Use	(550 600 V AC) Three Phase 192 A
Environmental	
Ambient Air Temperature Close to Contactor Fi	
	tted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 $^{\circ}$ C r without Thermal O/L Relay (0.85 1.1 Uc) -40 70 $^{\circ}$ C
Maximum Operating Altitude Permissible	

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Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
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
End Of Life Disassembling Instructions	1SFC100112M0001
Environmental Product Declaration - EPD	1SFC100095D0201 2TFP200018A1001
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
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 79.2 %
Sustainable Material Content in Product (wt. %)	Recycled Metal - 35 %

Certificates and Declarations	<b>~</b>
A2L Certificate - UL	9AKK108468A6695
ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SE-82315
CCS Certificate	GB14T00030
CQC Certificate	CQC2014010304676685 CQC2014010304724672
Declaration of Conformity - CCC	2020980304001306 2020980304001071
Declaration of Conformity - CE	2CMT2015-005439
Declaration of Conformity - UKCA	2CMT2020-006118
DNV Certificate	DNV_E-14043
EAC Certificate	9AKK107046A8618
GL Certificate	GL_95072-14HH
KC Certificate	9AKK107046A9912
LR Certificate	LR_14_70011(E1)
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
UL Certificate	20121023-E36588
UL Listing Card	UL E36588

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Containe	ıı ildi illalıdı

Package Level 1 Units box 1 piece
Package Level 1 Width box 1 piece

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Package Level 1 Depth / Length	258 mm
Package Level 1 Height	235 mm
Package Level 1 Gross Weight	3 kg
Package Level 1 FAN	7320500480564

Classifications	
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 >> lec Contactors
E-Number (Finland)	3706462
E-Number (Norway)	4117641
E-Number (Sweden)	3210147

Accessories				
ldentifier	Description	Туре	Quantity	Unit Of Measure
1SFN170801R1001	RU19/120 LVRT-Module RI	U19/120	1	piece
1SFN170801R1002	RU19/240 LVRT-Module RI	U19/240	1	piece

## Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ 205$ 



