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PRODUCT-DETAILS

AF116-30-11-13AF116-30-11-13 Contactor



General Information Extended Product Type AF116-30-11-13 Product ID 1SFL427001R1311 EAN 7320500476376 Catalog Description AF116-30-11-13 Contactor The AF116-30-11-13 is a 3 pole - 690 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and double clamp, controlling motors up to 55 kW / 400 V AC (AC-3) or 75 hp / 480 V UL and switching power circuits up to 160 A (AC-1) or 160 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-Long Description 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.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Data Sheet, Technical Information (Part 2)	1SAC200017M0002
Instructions and Manuals	1SFC100003M0201
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SFB535001G1051
Product Net Width	90 mm
Product Net Depth / Length	126 mm
Product Net Height	150 mm
Product Net Weight	1.55 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 690 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 160 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 160 A (690 V) 60 °C 145 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 116 A (440 V) 55 °C 116 A (500 V) 55 °C 110 A (690 V) 55 °C 65 A (380 / 400 V) 55 °C 116 A (220 / 230 / 240 V) 55 °C 116 A
Rated Operational Current AC-3e (I _e)	(415 V) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 65 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Current DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Current DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Current DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Power AC-3 (P _e)	(415 V) 55 kW (440 V) 75 kW (500 V) 75 kW

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		(690 V) 55 kW (380 / 400 V) 55 kW
Rated Operational Power		(220 / 230 / 240 V) 30 kW (415 V) 55 kW
AC-3e (P _e)		(440 V) 75 kW
		(500 V) 75 kW
		(690 V) 55 kW (380 / 400 V) 55 kW
		(220 / 230 / 240 V) 30 kW
Rated Breaking Capacity AC-3		8 x le AC-3
Rated Breaking Capacity AC-3e		8.5 x le AC-3e
Rated Making Capacity AC-3		10 x le AC-3
Rated Making Capacity AC-3e		12 x le AC-3e
Short-Circuit Protective Devices		gG Type Fuses 250 A
Rated Short-time Withstand Current Low	1.7	Free Air, from a Cold State 10 s 928 A te Air, from a Cold State 15 min 160 A
Voltage (I _{cw})		ree Air, from a Cold State 1 min 379 A
	• *	Free Air, from a Cold State 1 s 1160 A Free Air, from a Cold State 30 s 536 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi	=0.35 for le > 100 A) at 440 V 2000 A i=0.35 for le > 100 A) at 690 V 1000 A
Rated Insulation Voltage (U _i)	acc. to IEC 60	0947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse		Main Circuit 8 kV
Withstand Voltage (U _{imp})		
Maximum Electrical		(AC-1) 300 cycles per hour
Switching Frequency		(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
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x	Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C)
Rated Control Circuit		50 Hz 100 250 V
Voltage (U _c)		60 Hz 100 250 V DC Operation 100 250 V
Coil Consumption	Holding at Max. Rate Holding at Max. F Pull-in at Max. Rated (d Control Circuit Voltage 50 Hz 6 V-A d Control Circuit Voltage 60 Hz 6 V-A Rated Control Circuit Voltage DC 3 W Control Circuit Voltage 50 Hz 130 V-A Control Circuit Voltage 60 Hz 130 V-A
		ted Control Circuit Voltage DC 135 W
Power Loss Operate Time		d Operating Conditions per Pole 6 W and NO Contact Opening 37 47 ms
Operate Time		and NO Contact Closing 25 55 ms
Connecting Capacity Main Circuit		Flexible 2 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²
Connecting Capacity Auxiliary Circuit		exible with Ferrule 2x 0.75 2.5 mm² n Insulated Ferrule 1x 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 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²
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	
Tightening Torque		Cable Lug 9 N·m Main Circuit 8 N·m
Terminal Type		Double Clamp
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Product Name Block Contactor

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 160 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 30 hp (208 V AC) Three Phase 30 hp (220 240 V AC) Three Phase 40 hp (440 480 V AC) Three Phase 75 hp (550 600 V AC) Three Phase 100 hp
Full Load Amps Motor Use	(440 480 V AC) Three Phase 96 A (550 600 V AC) Three Phase 99 A

Environmental	
Ambient Air	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 °
Temperature	С
•	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	Without Derating 3000 m
Altitude Permissible	•

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	1SFC100092D0201
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 - 87.8 %
Sustainable Material Content in Product (wt. %)	Recycled Metal - 37 %

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Certificates and Declarations	
A2L Certificate – UL	9AKK108468A6693
ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SEMKO_SE-70479M1
CCS Certificate	GB14T00030
CQC Certificate	CQC2013010304604055
Declaration of Conformity - CCC	2020980304001304
Declaration of Conformity - CE	2CMT2015-005439
Declaration of Conformity - UKCA	2CMT2020-006118
DNV Certificate	DNV_E-14043
EAC Certificate	9AKK107046A8618
LR Certificate	LR_14_70011(E1)
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
UL Certificate	20120925-E36588
UL Listing Card	UL_E36588

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	207 mm
Package Level 1 Depth / Length	216 mm
Package Level 1 Height	150 mm
Package Level 1 Gross Weight	1.75 kg
Package Level 1 EAN	7320500476376

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)	3706167
E-Number (Norway)	4117610
E-Number (Sweden)	3210068

Accessories

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Unit Of Measure	Quantity	Type Q	Description	Identifier
piece	1	VM140/190	VM140/190 Mechanical Interlock Unit	1SFN034403R1000
piece	1	LY140	LY140 Connecting Strip	1SFN074203R1000
piece	1	LW140	LW140 Terminal Enlargement	1SFN074207R1000
piece	1	LD146-30	LD146-30 Connection Module	1SFN074208R1000
piece	1	LX140	LX140 Terminal Extension	1SFN074210R1000
piece	1	LL146-30	LL146-30 Connection Socket	1SFN074211R1000
piece	1	BEA140/XT2	BEA140/XT2 Connection Set	1SFN084206R1000
piece	1	BEA140/XT4	BEA140/XT4 Connection Set	1SFN084206R1001
piece	1	BEA140/XT3	BEA140/XT3 Connection Set	1SFN084206R1002
piece	1	BER140-4	BER140-4 Connection Set	1SFN084211R1000
piece	1	BEP140-30	BEP140-30 Connection Set	1SFN084214R1000
piece	1	BEY140-4	BEY140-4 Connection Set	1SFN084413R1000
piece	1	PR146-1	PR146-1 Adapter Plate	1SFN094200R1000
piece	1	LT140-30L	LT140-30L Terminal Shroud	1SFN124203R1000
piece	1	LD146-40	LD146-40 Connection Module	1SFN074208R2000
piece	1	LL146-40	LL146-40 connection sockets kit	1SFN074211R2000
piece	1	BEP140-40	BEP140-40 Connection Set	1SFN084214R2000
piece	1	LT140-40L	LT140-40L Terminal Shroud	1SFN124203R2000

Where Used (as part of "kit")		
Identifier	Description	Туре
3HAC059249-001	Contactor set	Kit

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ 116$ $Robotics\ \rightarrow\ Controllers\ \rightarrow\ IRC5\ \rightarrow\ IRC5\ Process\ Module$



