

PRODUCT-DETAILS

AF116-30-00-13 AF116-30-00-13 Contactor



General Information		
Extended Product Type		AF116-30-00-13
Product ID		1SFL427001R1300
EAN		7320500476406
Catalog Description		AF116-30-00-13 Contactor
Long Description	The AF116-30-00-13 is a 3 pole - 690 V IEC or 600 V controlling motors up to 55 kW / 400 V AC (AC-3) or 75 h circuits up to 160 A (AC-1) or 160 A UL general use. contactor has a wide control voltage range (100-250 V 5 control voltage variations, reducing panel energy co operations in unstable networks. Furthermore, surge prote solution. AF contactors have a block type design, co auxiliary contact blocks and an ad	p / 480 V UL and switching power Thanks to the AF technology, the 0/60 Hz and DC), managing large onsumptions and ensuring distinct cction is built-in, offering a compact
Ordering		
Minimum Order Quantity		1 piece
Customs Tariff Number		85364900
Popular Downloads		
Data Sheet, Technical Information		1SBC100192C0206
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AF116-30-00-13

Instructions and Manuals	1SFC100003M02 2CDC001079B02	
CAD Dimensional Drawing		
Dimension Diagram	1SFB535001G1051	

Dimensions	
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		0
Number of Auxiliary Contacts NC		0
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	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 110 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Power AC-3 (P _e)		(415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Operational Power AC-3e (P _e)		(415 V) 55 kW (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
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Short-Circuit Protective Devices	gG Type Fuses 250 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in 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 cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1000 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
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 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
Mechanical Durability	5 millior
Maximum Mechanical Switching Frequency	300 cycles per hou
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 Voltage (U _c)	50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A Holding at Max. Rated Control Circuit Voltage DC 3 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 130 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 130 V·A Pull-in at Max. Rated Control Circuit Voltage DC 135 W
Operate Time	Between Coil De-energization and NO Contact Opening 37 47 ms Between Coil Energization and NO Contact Closing 25 55 ms
Connecting Capacity Main Circuit	Flexible 2 x 10 70 mm² Rigid Cu-Cable 1 x 10 95 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 2.5 mm ² Flexible 2x0.75 2.5 mm ² Solid 2 x 1 4 mm ² Stranded 1 x 1 4 mm ²
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
Terminal Type	Double Clamp

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	

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 Ntitude Permissible	Without Derating 3000
Vaterial Compliance	
Conflict Minerals Reporting Template CMRT)	9AKK108467A565
REACH Declaration	2CMT2021-00620
RoHS Information	2CMT2021-00627
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 201
Foxic Substances Control Act - TSCA	2CMT2023-00652
NEEE B2C / B2B	Business To Busines
NEEE Category	5. Small Equipment (No External Dimension More Than 50 cn
Circular Value	
ABB EcoSolutions	Ye
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 87.8
End of Life Instructions	1SFC100112M000
Group Waste to Landfill Farget	Non-hazardous waste is sent to a landfill, where there is no alternative optio available within 100km of a facili
mproved Resource Efficiency for Customers	Product Efficiency - Product requires less energy to operate compared t similar product on market or older products from the same lir
Sustainable Material Content	Recycled Metal - 37
Eco Transparency	1SFC100092D020
Declaration - EPD	
Certificates and Declarations	
	14-LD1092198-PD
Certificates and Declarations	14-LD1092198-PD BV_36353_A0B
Certificates and Declarations	
Certificates and Declarations ABS Certificate 3V Certificate	BV_36353_A0E SEMKO_SE-70479M
Certificates and Declarations ABS Certificate 3V Certificate CB Certificate	BV_36353_A0E SEMKO_SE-70479M GB14T0003
Certificates and Declarations ABS Certificate 3V Certificate CB Certificate CCS Certificate	BV_36353_A0E SEMKO_SE-70479M GB14T0003 CQC201301030460405
Certificates and Declarations ABS Certificate 3V Certificate CB Certificate CCS Certificate CQC Certificate Declaration of Conformity	BV_36353_A0B
Certificates and Declarations ABS Certificate 3V Certificate CB Certificate CCS Certificate CQC Certificate Declaration of Conformity CCC Declaration of Conformity	BV_36353_A0E SEMKO_SE-70479M GB14T0003 CQC201301030460409 202098030400130

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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	7320500476406

Classifications

Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Finland)	3706166
E-Number (Norway)	3210062
E-Number (Sweden)	3210062

Accessories

AF116-30-00-13

Unit Of Measure	Quantity	Туре	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 Socket	1SFN074211R2000
piece	1	BEP140-40	BEP140-40 Connection Set	1SFN084214R2000
piece	1	LT140-40L	LT140-40L Terminal Shroud	1SFN124203R2000

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors \rightarrow AF Contactors \rightarrow AF116

