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PRODUCT-DETAILS

AF146-30-11-13 AF146-30-11-13 Contactor



General Information	
Extended Product Type	AF146-30-11-13
Product ID	1SFL467001R1311
EAN	7320500476994
Catalog Description	AF146-30-11-13 Contactor

Long Description

The AF146-30-11-13 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and double clamp, controlling motors up to 75 kW / 400 V AC (AC-3) or 100 hp / 480 V UL and switching power circuits up to 225 A (AC-1) or 200 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	1SBC10	00214C0202
Information Data Sheet, Technical	1SAC20	00017M0002
Information (Part 2) Instructions and Manuals	1SEC10	00003M0201
CAD Dimensional		01079B0201
Drawing	405055	2500404054
<u>Dimension Diagram</u>	1SFB53	35001G1051
Dimensions		
Dimensions		
Product Net Width Product Net Depth /		90 mm 126 mm
Length		120 111111
Product Net Height		150 mm
Product Net Weight		1.55 kg
Technical		
Number of Main Contacts		3
NO		
Number of Main Contacts NC		0
Number of Auxiliary		1
Contacts NO Number of Auxiliary		1
Contacts NC		
Number of Poles Peted Operational Voltage	Main Ci	ircuit 1000 V
Rated Operational Voltage Rated Frequency (f)		uit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ =	
Rated Operational Current AC-1 (I _e)	(1000 V) (1000 V) (1000 V) (690 V) (690 V) (690 V)	40 °C 225 A 55 °C 200 A 60 °C 200 A 70 °C 175 A 40 °C 225 A 55 °C 200 A 60 °C 200 A 70 °C 175 A
Rated Operational Current AC-3 (I_e)	(415 V) (440 V) (500 V) (690 V	55 °C 146 A 55 °C 146 A 55 °C 130 A 7) 55 °C 93 A 7) 55 °C 60 A 55 °C 146 A
Rated Operational Current AC-3e (I _e)	(415 V) (440 V) (500 V) (690 V	60 °C 146 A 60 °C 146 A 60 °C 130 A ') 60 °C 93 A ') 60 °C 54 A 60 °C 146 A
Rated Operational Power AC-3 (P _e)	(4 (4- (5) (6) (10)	15 V) 75 kW 40 V) 90 kW 00 V) 90 kW 90 V) 90 kW 00 V) 75 kW 00 V) 75 kW
Rated Operational Power AC-3e (P _e)	(4. (5) (6) (10)	15 V) 75 kW 40 V) 90 kW 00 V) 90 kW 90 V) 90 kW 00 V) 75 kW 00 V) 75 kW 40 V) 45 kW
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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 315 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1500 A
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 1000 V
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 8 kV
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (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 θ ≤ 70 °C)
Rated Control Circuit Voltage (U _c)	50 Hz 100 250 V 60 Hz 100 250 V
Coil Consumption	DC Operation 100 250 V 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
Power Loss	at Rated Operating Conditions per Pole 10 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 1 x 10 70 mm² Rigid Cu-Cable 1 x 10 95 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 1 x 1 4 mm²
Connecting Capacity	Flexible 2 x 10 70 mm² Rìgid 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
Product Name	Block Contactor
Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(1000 V AC) 200 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 40 hp (208 V AC) Three Phase 40 hp (220 240 V AC) Three Phase 50 hp (440 480 V AC) Three Phase 100 hp (550 600 V AC) Three Phase 125 hp
Full Load Amps Motor	(440 480 V AC) Three Phase 124 A

Use	(550 600 V AC) Three Phase 125
Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 50 ° Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 70 ° Close to Contactor for Storage -40 70 °
Maximum Operating Altitude Permissible	Without Derating 3000
Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A568
REACH Declaration	2CMT2021-00620
RoHS Information	2CMT2021-00627
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 201
Toxic Substances Control Act - TSCA	2CMT2023-00652
WEEE B2C / B2B	Business To Busines
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cr
ABB EcoSolutions ABB Site Meeting Group Waste To Landfill Target	Y Non-hazardous waste is sent to a landfill, where there is no alternative optic available within 100km of a facil
End Of Life Disassembling Instructions	1SFC100112M000
Environmental Product Declaration - EPD	1SFC100092D020
Improved Energy Efficiency for Customers	Product Efficiency - Product requires less energy to operate compared t similar product on market or older products from the same lin
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
Certificates and Declarations	
A2L Certificate - UL	9AKK108468A669
ASE Certificate - OE ABS Certificate	9AKT106466A063 14-LD1092198-PE
BV Certificate	BV_36353_A0E
CB Certificate	SEMKO SE-70479N
CCS Certificate	GB14T0003
CQC Certificate	CQC201301030460405
Declaration of Conformity - CCC	202098030400130
Declaration of Conformity - CE	2CMT2015-0054
Declaration of Conformity - UKCA	2CMT2020-0061
DNV Certificate	DNV_E-1404
EAC Cartificate	047/1070464961

EAC Certificate

KC Certificate

LR Certificate

PRS Certificate

RINA Certificate RMRS Certificate 9AKK107046A8618

9AKK107046A9910

LR_14_70011(E1)

TE_2092_880423_16 ELE060313XG_002

9AKK107045A6978

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 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	7320500476994

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 >> lec Contactors
E-Number (Finland)	3706370
E-Number (Norway)	4117629

Accessories				
Identifier	Description	Туре	Quantity	Unit Of Measure
1SFN034403R1000	VM140/190 Mechanical Interlock Unit	VM140/190	1	piece
1SFN074203R1000	LY140 Connecting Strip	LY140	1	piece
1SFN074207R1000	LW140 Terminal Enlargement	LW140	1	piece
1SFN074208R1000	LD146-30 Connection Module	LD146-30	1	piece
1SFN074210R1000	LX140 Terminal Extension	LX140	1	piece
1SFN074211R1000	LL146-30 Connection Socket	LL146-30	11	piece
1SFN084206R1000	BEA140/XT2 Connection Set	BEA140/XT2	1	piece
1SFN084206R1001	BEA140/XT4 Connection Set	BEA140/XT4	1	piece
1SFN084206R1002	BEA140/XT3 Connection Set	BEA140/XT3	1	piece
1SFN084211R1000	BER140-4 Connection Set	BER140-4	1	piece
1SFN084214R1000	BEP140-30 Connection Set	BEP140-30	1	piece
1SFN084413R1000	BEY140-4 Connection Set	BEY140-4	1	piece
1SFN094200R1000	PR146-1 Adapter Plate	PR146-1	1	piece
1SFN124203R1000	LT140-30L Terminal Shroud	LT140-30L	1	piece
1SFN074208R2000	LD146-40 Connection Module	LD146-40	1	piece
1SFN074211R2000	LL146-40 connection sockets kit	LL146-40	1	piece
1SFN084214R2000	BEP140-40 Connection Set	BEP140-40	1	piece
1SFN124203R2000	LT140-40L Terminal Shroud	LT140-40L	1	piece

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Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ 146$



