

PRODUCT-DETAILS

## AF400-30-11-69 AF400-30-11 48-130V 50/60Hz / 48-130V DC Contactor



Extended Product Type	AF400-30-11-69
Product ID	1SFL577001R6911
EAN	7320500217832
Catalog Description	AF400-30-11 48-130V 50/60Hz / 48-130V DC Contactor
Long Description	The AF400-30-11-69 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 200 kW / 400 V AC (AC-3) or 350 hp / 480 V UL and switching power circuits up to 600 A (AC-1) or 550 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (48-130 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

## Popular Downloads

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Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SFC380023-en
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	53540919-59

Dimensions	
Product Net Width	186 mm
Product Net Depth / Length	216 mm
Product Net Height	278 mm
Product Net Weight	10.6 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 $\Theta$ = 40 °C 600 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(1000 V) 40 °C 600 A (1000 V) 55 °C 500 A (1000 V) 70 °C 400 A (690 V) 40 °C 600 A (690 V) 55 °C 500 A (690 V) 70 °C 400 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 400 A (440 V) 55 °C 400 A (500 V) 55 °C 400 A (690 V) 55 °C 350 A (100 V) 55 °C 155 A (380 / 400 V) 55 °C 400 A (220 / 230 / 240 V) 55 °C 400 A
Rated Operational Current DC-1 (I <sub>e</sub> )	(110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A
Rated Operational Current DC-3 (I <sub>e</sub> )	(110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A
Rated Operational Current DC-5 (I <sub>e</sub> )	(110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 220 kW (440 V) 220 kW (500 V) 250 kW (690 V) 315 kW (1000 V) 220 kW (380 / 400 V) 200 kW (220 / 230 / 240 V) 110 kW
Rated Breaking Capacity AC-3	8 x le AC-3
Rated Making Capacity AC-3	10 x le AC-3
Short-Circuit Protective	gG Type Fuses 630 A

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Rated Short-time	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 4400 A
Withstand Current Low	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 840 A
Voltage (I <sub>cw</sub> )	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2500 A
	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 4600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 4000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 3500 A
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Main Circuit 8 kV
Maximum Electrical	(AC-1) 300 cycles per hour
Switching Frequency	(AC-2 / AC-4) 60 cycles per hour (AC-3) 300 cycles per hour
Mechanical Durability	3 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 Voltage (U <sub>c</sub> )	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A
	Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V A
	Holding at Max. Rated Control Circuit Voltage DC 5 VA
	Pull-in at Max. Rated Control Circuit Voltage 50 Hz 1215 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1215 V·A
	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1215 VA Pull-in at Max. Rated Control Circuit Voltage DC 1150 VA
Power Loss	at Rated Operating Conditions per Pole 16 W
Operate Time	Between Coil De-energization and NC Contact Closing 45 55 ms Between Coil De-energization and NO Contact Opening 48 58 ms
	Between Coil Energization and NC Contact Opening 45 115 ms Between Coil Energization and NO Contact Closing 50 120 ms
Connecting Capacity Main	Bar 47 mm <sup>2</sup>
Circuit	Rigid Al-Cable 240 mm² Rigid Cu-Cable 240 mm²
Connecting Capacity	Flexible with Ferrule 2x 0.75 2.5 mm <sup>2</sup>
Auxiliary Circuit	Flexible with Insulated Ferrule 2x 0.75 2.5 mm <sup>2</sup>
	Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm²
	Stranded 2 x 1 4 mm <sup>2</sup>
Connecting Capacity	Bar 47 mm <sup>2</sup>
	Rigid Al-Cable 2x240 mm² Rigid Cu-Cable 240 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 35 N·m Main Circuit 35 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) 550 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 125 hp (208 V AC) Three Phase 125 hp (220 240 V AC) Three Phase 150 hp (440 480 V AC) Three Phase 350 hp (550 600 V AC) Three Phase 400 hp
Full Load Amps Motor Use	(440 480 V AC) Three Phase 414 A (550 600 V AC) Three Phase 382 A

Environmental

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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 Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g
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 Environmental Product Declaration - EPD	Yes 1SFC100105D0201
Certificates and Declarations	15 1 01409622 004
ABS Certificate BV Certificate	
CB Certificate	SE-82316
CCS Certificate	GB14T00030
CQC Certificate	CQC2007010304256683 CQC2011010304514755
Declaration of Conformity - CCC	2020980304001300 2020980304001081
Declaration of Conformity - CE	2CMT2019-005796
Declaration of Conformity - UKCA	2CMT2020-006118
DNV Certificate	DNV_E-10966
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
GL Certificate	GL_42988-02HH
LOVAG Certificate	SE-0115101
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box 1 piece

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LR Certificate

PRS Certificate **RINA** Certificate

RMRS Certificate UL Certificate

UL Listing Card

**Container Information** Package Level 1 Units

Package Level 1 Width

280 mm

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Package Level 1 Depth / Length	375 mm
Package Level 1 Height	310 mm
Package Level 1 Gross Weight	12 kg
Package Level 1 EAN	7320500217832

Object Classification Code	0
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 (Norway)	4115287
E-Number (Sweden)	3228334

Accessories				
Identifier	Description	Туре	Quantity	Unit Of <u>Measure</u>
1SFN170801R1001	RU19/120 LVRT-Module	RU19/120	1	piece
1SFN170801R1002	RU19/240 LVRT-Module	RU19/240	1	piece

## Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  ABcontactors  $\rightarrow$  AF400

