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PRODUCT-DETAILS

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AF52-30-00-11 24-60V50/60HZ 20-60VDC Contactor



General Information	
Extended Product Type	AF52-30-00-11
Product ID	1SBL367001R1100
EAN	3471523132313
Catalog Description	AF52-30-00-11 24-60V50/60HZ 20-60VDC Contactor
Long Description	The AF52-30-00-11 is a 3 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 22 kW / 400 V AC (AC-3) or 40 hp / 480 V UL and switching power circuits up to 100 A (AC-1) or 80 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (24-60 V 50/60 Hz and 20-60 V 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
Instructions and Manuals	1SBC101036M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimensions	
Product Net Width	55 mm
Product Net Depth / Length	111 mm
Product Net Height	125.5 mm
Product Net Weight	0.97 kg
Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	C
Number of Auxiliary Contacts NC	C
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-1, UL 60947-4-1, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 105 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 100 A (690 V) 60 °C 80 A (690 V) 70 °C 70 A
Rated Operational	(415 V) 60 °C 53 A
Current AC-3 (I _e)	(440 V) 60 °C 53 A
	(500 V) 60 °C 45 A (690 V) 60 °C 35 A
	(380 / 400 V) 60 °C 53 A
Pated Operational	(220 / 230 / 240 V) 60 °C 53 A (415 V) 60 °C 53 A
Rated Operational Current AC-3e (I _e)	(440 V) 60 °C 53 A (500 V) 60 °C 45 A (690 V) 60 °C 35 A
	(380 / 400 V) 60 °C 53 A (220 / 230 / 240 V) 60 °C 53 A
Rated Operational Power AC-3 (P_e)	(400 V) 22 kw (415 V) 30 kw (440 V) 30 kw (500 V) 30 kw (690 V) 30 kw (380 / 400 V) 22 kw
	(220 / 230 / 240 V) 15 kW
Rated Operational Power AC-3e (P _e)	(415 V) 30 kw (440 V) 30 kw (500 V) 30 kw (690 V) 30 kw
	(380 / 400 V) 22 kW

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	(220 / 230 / 240 V) 15 kW
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 950 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 600 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour
Rated Operational Current DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 100 A (110 V) 2 Poles in Series, 60 °C 80 A (110 V) 2 Poles in Series, 70 °C 70 A (110 V) 3 Poles in Series, 40 °C 100 A (110 V) 3 Poles in Series, 60 °C 80 A (110 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 60 °C 80 A (72 V) 2 Poles in Series, 40 °C 100 A (72 V) 2 Poles in Series, 60 °C 80 A (72 V) 2 Poles in Series, 60 °C 80 A (72 V) 3 Poles in Series, 60 °C 80 A (72 V) 3 Poles in Series, 60 °C 80 A
Rated Operational Current DC-3 (I _e)	(72 V) 3 Poles in Series, 70 °C 70 A (110 V) 2 Poles in Series, 40 °C 100 A (110 V) 2 Poles in Series, 60 °C 80 A (110 V) 2 Poles in Series, 70 °C 70 A (110 V) 3 Poles in Series, 40 °C 100 A (110 V) 3 Poles in Series, 60 °C 80 A (110 V) 3 Poles in Series, 60 °C 80 A (110 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 100 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 70 °C 70 A (72 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 60 °C 80 A (72 V) 2 Poles in Series, 40 °C 100 A (72 V) 2 Poles in Series, 60 °C 80 A (72 V) 2 Poles in Series, 60 °C 80 A (72 V) 3 Poles in Series, 70 °C 70 A (72 V) 3 Poles in Series, 70 °C 100 A (72 V) 3 Poles in Series, 60 °C 80 A (72 V) 3 Poles in Series, 60 °C 80 A
Rated Operational Current DC-5 (Ie)	(110 V) 2 Poles in Series, 40 °C 100 A (110 V) 2 Poles in Series, 60 °C 80 A (110 V) 2 Poles in Series, 70 °C 70 A (110 V) 3 Poles in Series, 40 °C 100 A (110 V) 3 Poles in Series, 60 °C 80 A (110 V) 3 Poles in Series, 70 °C 70 A (220 V) 3 Poles in Series, 40 °C 100 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 60 °C 80 A (220 V) 3 Poles in Series, 70 °C 70 A (220 V) 1-Pole, 40 °C 100 A (72 V) 1-Pole, 60 °C 80 A (72 V) 1-Pole, 60 °C 80 A (72 V) 2 Poles in Series, 40 °C 100 A (72 V) 2 Poles in Series, 60 °C 80 A (72 V) 2 Poles in Series, 60 °C 80 A (72 V) 3 Poles in Series, 70 °C 70 A (72 V) 3 Poles in Series, 60 °C 80 A (72 V) 3 Poles in Series, 60 °C 80 A (72 V) 3 Poles in Series, 60 °C 80 A
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp}	6 kV

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Maximum Mechanical	3600 cycles per hour
Switching Frequency	
Rated Control Circuit	50 Hz 24 60 V
Voltage (U _c)	60 Hz 24 60 V
	DC Operation 20 60 V
Coil Consumption	Average Holding Value 50 / 60 Hz 4 V·A
	Average Holding Value 50 Hz 4 V-A
	Average Holding Value 60 Hz 4 V·A
	Average Holding Value DC 2 W
	Average Holding Value, from Warm State 2 W
Operate Time	Between Coil De-energization and NC Contact Closing 19 105 ms
	Between Coil De-energization and NO Contact Opening 17 100 ms
	Between Coil Energization and NC Contact Opening 38 95 ms
	Between Coil Energization and NO Contact Closing 42 100 ms
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not	2 x M4 or 2 x M6 screws placed diagonally
supplied)	
Connecting Capacity	Flexible with Ferrule 1/2x 4 35 mm ²
Main Circuit	Flexible with Insulated Ferrule 1/2x 4 35 mm²
	Rigid Stranded 1/2x 6 35 mm²
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5 mm ²
Control Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm ²
	Flexible with Insulated Ferrule 2x 0.75 1.5 mm ²
	Rigid Solid 1/2x 1 2.5 mm ²
	Rigid Stranded 1/2x 1 2.5 mm²
Wire Stripping Length	Control Circuit 10 mm
5	Main Circuit 16 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type	Screw Terminals

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 80 A
Horsepower Rating	(120 V AC) Single Phase 3 hp
UL/CSA	(200 208 V AC) Three Phase 15 hp
	(220 240 V AC) Three Phase 20 hp
	(240 V AC) Single Phase 10 hp
	(440 480 V AC) Three Phase 40 hp
	(550 600 V AC) Three Phase 50 hp
Connecting Capacity Main Circuit UL/CSA	Rigid Stranded 1/2x 10-2 AWG
Connecting Capacity	Rigid Solid 1/2x 18-14 AWG
Control Circuit UL/CSA	Rigid Stranded 1/2x 18-14 AWG
Tightening Torque	Control Circuit 11 in-lb
UL/CSA	Main Circuit 35 in lb

Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -40 70 °C Close to Contactor without Thermal O/L Relay -40 70 °C Close to Contactor for Storage -60 +80 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc.	Closed, Shock Direction: A 25 g

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to IEC 60068-2-27

Closed, Shock Direction: B1 25 g Closed, Shock Direction: B2 15 g Closed, Shock Direction: C1 25 g Closed, Shock Direction: C2 25 g Open, Shock Direction: B1 5 g

Resistance to Vibrations

3g Closed Position & 3g Open Position 5 ... 300 Hz

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)

Circular Value

End of Life Instructions 1SBC101081M6801

Eco Transparency

Environmental Product2TFP200016A1001Declaration - EPD1SBD250584E1000

Certificates and Declarations	
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H36994B1
CB Certificate	CB_SE-113324
CCC Certificate	CCC_2012010304589737 CCC_2015010304824714
CQC Certificate	CQC2015010304824714 CQC2012010304589737
Declaration of Conformity - CCC	2020980304001256 2020980304001074
Declaration of Conformity - CE	1SBD250000U1000
Declaration of Conformity - UKCA	1SBD250031U1000
DNV Certificate	DNV_TAE00001AF-4
KC Certificate	KC_HW02016-15010C
LR Certificate	LRS_LR23403517TA-02
RINA Certificate	RINA_ELE084013XG
RMRS Certificate	RMRS_1802705280
UL Certificate	UL-US-L312527-1141-10303102-9 UL-CA-L312527-4141-10303102-9
UL Listing Card	UL_E312527

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Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	150 mm
Package Level 1 Depth / Length	150 mm
Package Level 1 Height	97 mm
Package Level 1 Gross Weight	1.07 kg
Package Level 1 EAN	3471523132313
Package Level 2 Units	box 10 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	300 mm
Package Level 2 Gross Weight	10.7 kg
Package Level 3 Units	240 piece

Classifications	
Object Classification	Q
Code	
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	4758 >> lec Contactors
Code (IGCC)	
E-Number (Finland)	3707014
E-Number (Sweden)	3210037

Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors \rightarrow AF\ Contactors \rightarrow AF52$

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