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PRODUCT-DETAILS

## AF40-30-00-13

## AF40-30-00-13 100-250V50/60HZ-DC Contactor



**General Information** 

"reg p. A. Fr. O. Chorn,

Extended Product Type		AF40-30-00-13
Product ID		1SBL347001R1300
EAN	7	3471523132030
Catalog Description		AF40-30-00-13 100-250V50/60HZ-DC Contactor
	controlling motors up power circuits up to	is a 3 pole - 690 V IEC or 600 UL contactor with screw terminals, to 18.5 kW / 400 V AC (AC-3) or 30 hp / 480 V UL and switching 70 A (AC-1) or 60 A UL general use. Thanks to the AF technology, r has a wide control voltage range (100-250 V 50/60 Hz and DC),
Long Description		rol voltage variations, reducing panel energy consumptions and

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 accessories.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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1SBC100	214 <b>C</b> 0202
1SBC1010	036M6801
2CDC001	.079B0201
	55 mm
	111 mm
	125.5 mm
	0.95 kg
	3
400	C
	C
	C
Main Cir.	cuit 690 V
acc. to IEC 60947-4-1, Open Contactors ⊖ = 4	0 °C 105 A
(690 V) (	40 °C 70 A 60 °C 60 A 70 °C 50 A
	60 °C 40 A
	60 °C 40 A 60 °C 35 A
(690 V)	60 °C 25 A
	60 °C 40 A
	60 °C 40 A
(220 / 230 / 240 V) (	50 °C 40 A
	V) 18.5 kW
	5 V) 22 kW 0 V) 22 kW
(500	0 V) 22 kW
	0 V) 22 kW
	5 V) 22 kW
	0 V) 22 kW
4	01/02/14
	0 V) 22 kW 0 V) 22 kW
	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-1, UL 60947-4-1, No. 60947-1-22, CSA C22.2 No. 60  Main Circuit 5  Main Circuit 5  Main Circuit 5  Acc. to IEC 60947-4-1, Open Contactors 0 = 4  (690 V) (6

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Rated Short-time	(220 / 230 / 240 V) 11 kW at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A
Withstand Current Low	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A
Voltage (I <sub>cw</sub> )	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	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 950 A
Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 600 A
Maximum Electrical	(AC-1) 600 cycles per hour
Switching Frequency	(AC-2 / AC-4) 150 cycles per hou (AC-3) 1200 cycles per hou
Rated Operational	(110 V) 2 Poles in Series, 40 °C 70 A
Current DC-1 (I <sub>e</sub> )	(110 V) 2 Poles in Series, 60 °C 60 A
	(110 V) 2 Poles in Series, 70 °C 50 A
	(110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 60 °C 60 A
	(110 V) 3 Poles in Series, 70 °C 50 A
	(220 V) 3 Poles in Series, 40 °C 70 A
	(220 V) 3 Poles in Series, 60 °C 60 A
	(220 V) 3 Poles in Series, 70 °C 50 A
	(72 V) 1-Pole, 40 °C 70 A
	(72 V) 1-Pole, 60 °C 60 A (72 V) 1-Pole, 70 °C 50 A
	(72 V) 2 Poles in Series, 40 °C 70 A
	(72 V) 2 Poles in Series, 60 °C 60 A
	(72 V) 2 Poles in Series, 70 °C 50 A
	(72 V) 3 Poles in Series, 40 °C 70 A
	(72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A
Rated Operational	(110 V) 2 Poles in Series, 40 °C 70 A
Current DC-3 (I <sub>e</sub> )	(110 V) 2 Poles in Series, 60 °C 60 A
	(110 V) 2 Poles in Series, 70 °C 50 A
	(110 V) 3 Poles in Series, 40 °C 70 A
	(110 V) 3 Poles in Series, 60 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A
	(220 V) 3 Poles in Series, 40 °C 70 A
	(220 V) 3 Poles in Series, 60 °C 60 A
	(220 V) 3 Poles in Series, 70 °C 50 A
	(72 V) 1-Pole, 40 °C 70 A
	(110 V) 2 Poles in Series, 70 °C 50 A (110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 60 °C 60 A (110 V) 3 Poles in Series, 60 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 70 °C 50 A (72 V) 1-Pole, 40 °C 70 A (72 V) 1-Pole, 60 °C 60 A (72 V) 2 Poles in Series, 40 °C 70 A (72 V) 2 Poles in Series, 60 °C 60 A (72 V) 2 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 60 °C 60 A
	(72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 70 A
	(72 V) 2 Poles in Series, 60 °C 60 A
	(72 V) 2 Poles in Series, 70 °C 50 A
	(72 V) 3 Poles in Series, 40 °C 70 A
	(72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A
Rated Operational	(110 V) 2 Poles in Series, 40 °C 70 A
Current DC-5 (I <sub>e</sub> )	(110 V) 2 Poles in Series, 60 °C 60 A
	(110 V) 2 Poles in Series, 70 °C 50 A
	(110 V) 3 Poles in Series, 40 °C 70 A
	(110 V) 3 Poles in Series, 60 °C 60 A
	(110 V) 3 Poles in Series, 70 °C 50 /
	(220 V) 3 Poles in Series, 40 °C 70 A (220 V) 3 Poles in Series, 60 °C 60 A
	(220 V) 3 Poles in Series, 70 °C 50 A
	(72 V) 1-Pole, 40 °C 70 A
	(72 V) 1-Pole, 60 °C 60 A
	(72 V) 1-Pole, 70 °C 50 A
	(72 V) 2 Poles in Series, 40 °C 70 /
	(72 V) 2 Poles in Series, 60 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 A
	(72 V) 3 Poles in Series, 10 °C 30 F
	(72 V) 3 Poles in Series, 40 °C 60 A
	(72 V) 3 Poles in Series, 70 °C 50 A
Rated Insulation Voltage	acc. to IEC 60947-4-1 690 V
(U <sub>i</sub> )	acc. to UL/CSA 600 \

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Maximum Mechanical	3600 cycles per hour	
Switching Frequency	3000 cycles per nour	
Rated Control Circuit	50 Hz 100 250 V	
Voltage (U <sub>c</sub> )	60 Hz 100 250 V	
voltage (UE)	DC Operation 100 250 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 <sup>2</sup>	
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 mm²	
Control Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm²	
	Flexible with Insulated Ferrule 2x 0.75 1.5 mm²	
	Rigid Solid 1/2x 1 2.5 mm²	
	Rigid Stranded 1/2x 1 2.5 mm²	
Wire Stripping Length	Control Circuit 10 mm	
3	Main Circuit 16 mm	
Degree of Protection	acc. to IEC 605 <mark>29, IE</mark> C 60947-1, EN 60529 Coil Terminals IP20	
-	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10	
Terminal Type	Screw Terminals	

Technical UL/CSA	
NEMA Size	2
Continuous Current Rating NEMA	45 A
Horsepower Rating NEMA	(115 V AC) Single Phase 3 Hp (200 V AC) Three Phase 10 Hp (230 V AC) Single Phase 7-1/2 Hp (230 V AC) Three Phase 15 Hp (460 V AC) Three Phase 25 Hp (575 V AC) Three Phase 25 Hp
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 60 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 3 hp (200 208 V AC) Three Phase 10 hp (220 240 V AC) Three Phase 15 hp (240 V AC) Single Phase 7-1/2 hp (440 480 V AC) Three Phase 30 hp (550 600 V AC) Three Phase 40 hp
Connecting Capacity Main Circuit UL/CSA	Rigid Stranded 1/2x 10-2 AWG
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Tightening Torque UL/CSA	Control Circuit 11 in·lb Main Circuit 35 in·lb

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Ambient Air	Close to Contactor Fitted with Thermal O/L Relay -40 70 °C
Temperature	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
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)	9AKK108467A5	658
REACH Declaration	2CMT2021-006	5202
RoHS Information	2CMT2021-006	6277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22,	2019
Toxic Substances Control Act - TSCA	2CMT2023-006	5525
WEEE B2C / B2B	Business To Busin	ness
WEEE Category	5. Small Equipment (No External Dimension More Than 50	cm)

Circular Value	
End of Life Instructions	1SBC101081M6801

Eco Transparency	
Environmental Product Declaration - EPD	2TFP200016A1001 1SBD250584E1000

ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H36994B1
CB Certificate	CB_SE-113324
CCC Certificate	CQC2015010304824714
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_HW02016-15006C
LR Certificate	LRS LR23403517TA-02

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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

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	1.05 kg
Package Level 1 EAN	3471523132030
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	10.5 kg
Package Level 3 Units	240 piece

Classifications	4,
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)	3706599
E-Number (Sweden)	3210033

## Categories

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Submitted by the Ostolia