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PRODUCT-DETAILS

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



General Information	
Extended Product Type	AF40-30-00-13
Product ID	1SBL347001R1300
EAN	3471523132030
Catalog Description	AF40-30-00-13 100-250V50/60HZ-DC Contactor
Long Description	The AF40-30-00-13 is a 3 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 18.5 kW / 400 V AC (AC-3) or 30 hp / 480 V UL and switching power circuits up to 70 A (AC-1) or 60 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 accessories.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

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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	0.95 kg	
Number of Main Contacts	3	
Number of Main Contacts	0	
Number of Auxiliary Contacts NO	0	
Number of Auxiliary Contacts NC	0	
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	
conventional Free-air	Main Circuit 50 / 60 Hz acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 105 A	
Thermal Current (I _{th}) Rated Operational Current	(690 V) 40 °C 70 A	
C-1 (I _e)	(690 V) 60 °C 60 A (690 V) 70 °C 50 A	
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A	
	(380 / 400 V) 60 °C 40 A (220 / 230 / 240 V) 60 °C 40 A	
Rated Operational Current AC-3e (I _e)	(415 V) 60 °C 40 A (440 V) 60 °C 40 A	
(1 _e)	(500 V) 60 °C 35 A	
	(690 V) 60 °C 25 A (380 / 400 V) 60 °C 40 A	
dated Operational Payer	(220 / 230 / 240 V) 60 °C 40 A	
Rated Operational Power NC-3 (P _e)	(400 V) 18.5 kW (415 V) 22 kW	
	(440 V) 22 kW (500 V) 22 kW	
	(690 V) 22 kW	
	(380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW	
Rated Operational Power	(415 V) 22 kW	
CC-3e (P _e)	(440 V) 22 kW (500 V) 22 kW	
	(690 V) 22 kW (380 / 400 V) 18.5 kW	
	(380 / 400 V) 16.3 KW (220 / 230 / 240 V) 11 kW	
Rated Short-time Vithstand Current Low /oltage (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	
Rated Operational Current	(AC-3) 1200 cycles per hour (110 V) 2 Poles in Series, 40 °C 70 A	
·		without not
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Mounting by Screws (not supplied)	2 x M4 or 2 x M6 screws placed diagonally
Mounting on DIN Rail	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 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
Coil Consumption Operate Time	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 0C 2 W Average Holding Value, from Warm State 2 W Between Coil De-energization and NC Cont
Voltage (U _c)	60 Hz 100 250 V DC Operation 100 250 V
Maximum Mechanical Switching Frequency Rated Control Circuit	3600 cycles per hour 50 Hz 100 250 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Voltage (U _{imp}) Maximum Mechanical	(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, 60 °C 60 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, 60 °C 60 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, 70 °C 50 A (72 V) 2 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 70 °C 50 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 (710 V) 2 Poles in Series, 60 °C 60 A (110 V) 2 Poles in Series, 60 °C 60 A (110 V) 2 Poles in Series, 60 °C 60 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, 60 °C 60 A (110 V) 3 Poles in Series, 60 °C 60 A (110 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 60 °C 60 A (220 V) 3 Poles in Series, 60 °C 60 A (72 V) 1-Pole, 60 °C 60 A (72 V) 1-Pole, 60 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 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) 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) 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) 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) 3 Poles in Series, 60 °C 60 A (72 V) 3 Poles in Series, 60 °C 60 A (72 V) 4 Poles in Series, 60 °C 60 A (72 V) 1-Pole, 60 °C 60 A
DC-1 (I _e)	(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

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Circuit	Flexible with In	nsulated Ferrule 1/2x 4 35 mm ² Rigid Stranded 1/2x 6 35 mm ²
Connecting Capacity Control Circuit	Flexible with Ins Flexible with Ins	with Ferrule 1/2x 0.75 2.5 mm² with Ferrule 1/2x 0.75 2.5 mm² with a ferrule 1/2x 0.75 2.5 mm² with a 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 Main Circuit 16 mm
Degree of Protection		-1, EN 60529 Coil Terminals IP20 1, EN 60529 Main Terminals IP10
Terminal Type	<u> </u>	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	(220 ((440	(120 V AC) Single Phase 3 hp 208 V AC) Three Phase 10 hp 240 V AC) Three Phase 15 hp (240 V AC) Single Phase 7-1/2 hp 480 V AC) Three Phase 30 hp 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
Environmental		
Ambient Air Temperature	Close to Contactor withou	th Thermal O/L Relay -40 70 °C ut Thermal O/L Relay -40 70 °C ontactor for Storage -60 +80 °C
Climatic Withstand		ccording to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible		Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27		Closed, Shock Direction: A 25 g 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	3q Closed Positio	n & 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 Am	•
Toxic Substances Control		2CMT2023-006525
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Act -	TSCA

Act - TSCA 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 Product Declaration - EPD	2TFP200016A1001 1SBD250584E1000
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_HW02016-15006C
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
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
D I I I I I I I I I I I I I I I I I I I	0.47450040000

Package Level 1 EAN

Package Level 2 Units

Package Level 2 Width Package Level 2 Depth /

Package Level 2 Height

Package Level 2 Gross Weight

Package Level 3 Units

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box 10 piece 250 mm

300 mm

300 mm

10.5 kg

240 piece

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Classifications	
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

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ Block\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF40$

