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PRODUCT-DETAILS

AF40-30-00-12 AF40-30-00-12 48-130V50/60HZ-DC Contactor



AF40-30-00-12
1SBL347001R1200
3471523132023
AF40-30-00-12 48-130V50/60HZ-DC Contactor
The AF40-30-00-12 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 (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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Instructions and Manuals CAD Dimensional	1SBC101036M6801 2CDC001079B0201
Drawing	200000107300201
<u> </u>	
Dimensions Product Not Width	EE mm
Product Net Width Product Net Depth /	
ength	
Product Net Height Product Net Weight	125.5 mm 0.97 kg
-roduct Net Weight	U.97 NU
Technical	_
Number of Main Contacts	3
Number of Main Contacts NC	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 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 70 A (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
Rated Operational Current	(220 / 230 / 240 V) 60 °C 40 A (415 V) 60 °C 40 A
AC-3e (I _e)	(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 Power	(400 V) 18.5 kW
AC-3 (P _e)	(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
·C-3e (P _e)	(440 V) 22 kW (500 V) 22 kW
	(690 V) 22 kW
	(380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
tated Short-time Vithstand Current Low Yoltage (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
Maximum Breaking Capacity	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A 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	(110 V) 2 Poles in Series, 40 °C 70 A
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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 (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, 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, 60 °C 60 A (72 V) 3 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, 60 °C 60 A (72 V) 3 Poles in Series, 60 °C 60 A
Rated Operational Current DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 70 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, 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, 60 °C 60 A (220 V) 3 Poles in Series, 70 °C 50 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, 60 °C 60 A (72 V) 1-Pole, 60 °C 60 A (72 V) 2 Poles in Series, 60 °C 60 A (72 V) 2 Poles in Series, 60 °C 60 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, 40 °C 70 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, 60 °C 60 A
Rated Operational Current DC-5 (I _e) Rated Insulation Voltage	(110 V) 2 Poles in Series, 40 °C 70 A (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, 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, 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) 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, 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, 70 °C 50 A (72 V) 3 Poles in Series, 70 °C 50 A
(U _i) Rated Impulse Withstand Voltage (U _{imp})	acc. to UL/CSA 600 V
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 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 DC 2 W Average Holding Value Norm 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 supplied)	2 x M4 or 2 x M6 screws placed diagonally
Connecting Capacity Main	Flexible with Ferrule 1/2x 4 35 mm ²

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Circuit	Flexible with Insulated Ferrule 1/2x 4 35 m Rigid Stranded 1/2x 6 35 m
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0 35 in Flexible with Insulated Ferrule 1x 0.75 2.5 in Flexible with Insulated Ferrule 2x 0.75 1.5 in Rigid Solid 1/2x 1 2.5 in
	Rigid Stranded 1/2x 1 2.5 m
Vire Stripping Length	Control Circuit 10 r Main Circuit 16 r
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IF acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IF
erminal Type	Screw Termin
Fachwise LIII (CCA	
Technical UL/CSA IEMA Size	
Continuous Current	4
Rating NEMA Horsepower Rating NEMA	(115 V AC) Single Phase 3 (200 V AC) Three Phase 10 (230 V AC) Single Phase 7-1/2 (230 V AC) Three Phase 15 (460 V AC) Three Phase 25 (575 V AC) Three Phase 25
Maximum Operating Voltage UL/CSA	Main Circuit 60
General Use Rating JL/CSA	(600 V AC) 6
Horsepower Rating UL/CSA	(120 V AC) Single Phase 3 (200 208 V AC) Three Phase 10 (220 240 V AC) Three Phase 15 (240 V AC) Single Phase 7-1/2 (440 480 V AC) Three Phase 30 (550 600 V AC) Three Phase 40
Connecting Capacity Main Circuit UL/CSA	Rigid Stranded 1/2x 10-2 AV
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AV Rigid Stranded 1/2x 18-14 AV
Fightening Torque JL/CSA	Control Circuit 11 ir Main Circuit 35 ir
-nvironmontal	
Environmental	01 . 0
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -40 70 Close to Contactor without Thermal O/L Relay -40 70 Close to Contactor for Storage -60 +80
Climatic Withstand	Category B according to IEC 60947-1 Annex
Maximum Operating Stitude Permissible	Without Derating 3000
Resistance to Shock acc. o IEC 60068-2-27	Closed, Shock Direction: A 2 Closed, Shock Direction: B1 2 Closed, Shock Direction: B2 1 Closed, Shock Direction: C1 2 Closed, Shock Direction: C2 2 Open, Shock Direction: B1
Resistance to Vibrations	3g Closed Position & 3g Open Position 5 300
Material Compliance	
Conflict Minerals Reporting Template CMRT)	9AKK108467A56
REACH Declaration	2CMT2021-0062
RoHS Information	2CMT2021-0062
RoHS Status Foxic Substances Control	Following EU Directive 2011/65/ 2CMT2023-0068
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Act - TSCA

WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H36994B1
CB Certificate	CB_SE-108889A1M2
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
EAC Certificate	EAC_RU_FRME77B03447
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	1.07 kg
Package Level 1 EAN	3471523132023
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 Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors

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E-Number (Finland) 3706598
E-Number (Sweden) 3210032

Categories

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

