

PRODUCT-DETAILS

AF40N2-30-11-13

AF40N2-30-11-13 100-250V50/60HZ-DC Contactor



General Information

Extended Product Type	AF40N2-30-11-13
Product ID	1SBL347001N1311
Catalog Description	AF40N2-30-11-13 100-250V50/60HZ-DC Contactor
Long Description	AF09N00 AF1650N8 NEMA contactors are mainly used for controlling 3-phase motors and power circuits up to 600 VAC. These contactors are of the block type design with 3 main poles.

1 piece
85364900

Dimensions	
Product Net Width	67 mm
Product Net Height	125.5 mm
Product Net Depth / Length	111 mm
Product Net Weight	0.99 kg

Container Information	
Package Level 1 Units	box 1 piece

Package Level 1 Width	150 mm
Package Level 1 Height	97 mm
Package Level 1 Depth / Length	150 mm
Package Level 1 Gross Weight	1.09 kg
Package Level 2 Units	box 10 piece
Package Level 2 Width	250 mm
Package Level 2 Height	300 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Gross Weight	10.9 kg
Package Level 3 Units	240 piece

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C
Maximum Operating Altitude Permissible	3000 n
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 3 g closed position / 3 g open position
Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: A 25 K40 Closed, Shock Direction: B1 25 K40 Closed, Shock Direction: B2 15 K40 Closed, Shock Direction: C1 25 K40 Closed, Shock Direction: C2 25 K40 Open, Shock Direction: B1 5 K40
Technical UL/CSA	
Horsepower Rating UL/CSA	(220 240 V AC) Three Phase 15 hp (440 480 V AC) Three Phase 30 hp (550 600 V AC) Three Phase 40 hp (120 V AC) Single Phase 3 hp (200 208 V AC) Three Phase 10 hp (240 V AC) Single Phase 7-1/2 hp
General Use Rating UL/CSA	(600 V AC) 60 A
Tightening Torque UL/CSA	Auxiliary Circuit 11 IA Control Circuit 11 IA Main Circuit 35 IA

Additional Information	
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 m ² Flexible with Insulated Ferrule 1x 0.75 2.5 Flexible with Insulated Ferrule 2x 0.75 1.5 m ² Rigid 1/2x 1 2.5 m ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 m ² Flexible with Insulated Ferrule 1x 0.75 2.5 m ² Flexible with Insulated Ferrule 2x 0.75 1.5 m ² Rigid 1/2x 1 2.5 m ²
Connecting Capacity Main Circuit	Rigid 1/2x 6 3 5 m² Flexible with Ferrule 1/2x 4 35 m² Flexible with Insulated Ferrule 1/2x 4 35 m²
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, q = 40 °C 16 A acc. to IEC 60947-4-1, Open Contactors q = 40 °C 105 A
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20

	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
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 AC-15 1200 cycles per hour
	DC-13 900 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour
Mounted Auxiliary Contacts	1 NO, 1 NC
Mounted Auxiliary Contacts 1st Stack	0 NO, 0 NC
Mounted Auxiliary Contacts 2nd Stack	1 NO, 1 NC
Mounting Position	Max. N.C. built-in and add-on N.C. auxiliary contacts: see accessory fitting details for a 3-pole contactor AF40 AF96
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Main Contacts NC	0
Number of Main Contacts NO	3
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
Order Multiple	1 piece
Power Loss	at Rated Operating Conditions AC-1 per Pole 3 W at Rated Operating Conditions AC-3 per Pole 1 W
Product Main Type	AF40N2
Product Name Rated Control Circuit	Block Contactor 50 Hz 100 250 V
Voltage (U _c)	60 Hz 100 250 V DC Operation 100 250 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Insulation Voltage (Ui)	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
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-15 (I _e)	(220 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 A
Rated Operational Current AC-3 (I _e)	(220 / 230 / 240 V) 60 °C 40 A (380 / 400 V) 60 °C 40 A (415 V) 60 °C 40 A (440 V) 60 °C 40 A (500 V) 60 °C 35 A (690 V) 60 °C 25 A
Rated Operational Current DC-13 (I _e)	(125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W

	(600 V) 0.1 A / 60 W
Rated Operational Power	(220 / 230 / 240 V) 11 KWT
AC-3 (P _e)	(380 / 400 V) 18.5 KWT
	(415 V) 22 KWT
	(440 V) 22 KWT
	(500 V) 22 KWT
	(690 V) 22 KWT
	(400 V) 18.5 KWT
Rated Operational	Auxiliary Circuit 690 V
Voltage	Main Circuit 690 V
Rated Short-time	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A
Withstand Current (I _{cw})	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
	for 0.1 s 140 A
	for 1 s 100 A
Terminal Type	Screw Terminals
Tightening Torque	Auxiliary Circuit 1.2 N·m
	Main Circuit 4 N·m
	Control Circuit 1.2 N·m
Wire Stripping Length	Main Circuit 16 mm

1SBC101036M6801
1SBD251021E1000
UL_E312527

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
Object Classification Code	Q
UNSPSC	39121529
WEEE Category	Product Not in WEEE Scope

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow NEMA Contactors

