

PRODUCT-DETAILS

ASL16-30-10-81

ASL16-30-10-81 24VDC Contactor



General Ir	formation
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Extended Product Type	ASL16-30-10-81
Product ID	1SBL123001R8110
EAN	3471523059610
Catalog Description	ASI 16-30-10-81 24VDC Contactor

Long Description

ASL16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. The ASL... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, 1 built-in auxiliary contact, front-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected - Accessories: a wide range of accessories is available. ASL... contactors are fitted with low consumption DC coils and are suitable for a direct control by PLC outputs.

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
UNSPSC	39121529
IDEA Granular Category	4755 >> Contactors

E-Number (Sweden)

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Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	78 mm
Package Level 1 Depth / Length	80 mm
Package Level 1 Height	48 mm
Package Level 1 Gross Weight	0.28 kg
Package Level 1 EAN	3471523059610
Package Level 2 Units	40 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	195 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	11.2 kg
Package Level 3 Units	960 piece

Certificates and Declarations (Document Number)	
CB Certificate	CB_CN13475-M1
CCC Certificate	CCC_2007010309251577
Declaration of Conformity - CE	1SBD250014U1000
Environmental Information	1SBD250155E1000
GOST Certificate	GOST_POCCCNME77B07822.pdf
Instructions and Manuals	1SBC101020M9701
RoHS Information	1SBD251001E1001
UL Certificate	UL_20120917-E312527-1-1
UL Listing Card	UL_E312527

Technical UL/CSA	
General Use Rating UL/CSA	(600 V AC) 20 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 3/4 Hp (240 V AC) Single Phase 2 Hp (200 208 V AC) Three Phase 3 Hp (220 240 V AC) Three Phase 5 Hp (440 480 V AC) Three Phase 10 Hp (550 600 V AC) Three Phase 10 Hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 9 in·lb

Environmental	
Ambient Air	Close to Contactor for Storage -60 +80 °C
Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C
	Close to Contactor without Thermal O/L Relay -40 +70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating	3000 m
Altitude Permissible	
Resistance to Vibrations	5 300 Hz 3 g Closed position / 2 g Open position
acc. to IEC 60068-2-6	

Resistance to Shock acc. to IEC 60068-2-27

Closed, Shock Direction: B1 10 g Closed, Shock Direction: C1 20 g Closed, Shock Direction: C2 20 g Open, Shock Direction: B1 5 g Open, Shock Direction: C1 9 g Open, Shock Direction: C2 14 g Shock Direction: A 20 g Shock Direction: B2 15 g

N. 1. 614 :	
Number of Main Contacts NO	
Number of Main Contacts NC	(
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	C
Standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N 14
Rated Operational Voltage	Auxiliary Circuit 690 \ Main Circuit 690 \
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 25 A acc. to IEC 60947-5-1, q = 40 °C 10 A
Rated Operational	(690 V) 40 °C 24 A
Current AC-1 (I _e)	(690 V) 60 °C 20 A (690 V) 70 °C 16 A
Rated Operational	(220 / 230 / 240 V) 60 °C 15.7 A (380 / 400 V) 60 °C 15.5 A
Current AC-3 (I _e)	(380 / 400 V) 60 °C 15.5 A
	(440 V) 60 °C 13.6 A
	(500 V) 60 °C 12.5 A (690 V) 60 °C 9 A
Rated Operational Power	(220 / 230 / 240 V) 4 kW
AC-3 (P _e)	(400 V) 7.5 kW
	(415 V) 7.5 kW
	(440 V) 7.5 kW (500 V) 7.5 kW
	(690 V) 7.5 kW
Rated Operational	(220 / 240 V) 4 A
Current AC-15 (I _e)	(24 / 127 V) 6 A (400 / 440 V) 3 A
	(500 V) 2 A
	(690 V) 2 A
Rated Short-time	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 124 A
Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 24 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A
	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 250 A
	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 75 A
	for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 155 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 90 A
Maximum Electrical	AC-1 600 cycles per hour
Switching Frequency	AC-15 1200 cycles per hour
	AC-2 / AC-4 300 cycles per hour
	AC-3 1200 cycles per hou DC-13 900 cycles per hou
Rated Operational	(110 V) 0.55 A / 60 W
Current DC-13 (I _e)	(220 V) 0.27 A / 60 W
	(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

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(U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U _c)	DC Operation 24 V
Operate Time	Between Coil De-energization and NC Contact Closing 15 20 ms Between Coil De-energization and NO Contact Opening 13 17 ms Between Coil Energization and NC Contact Opening 31 53 ms Between Coil Energization and NO Contact Closing 36 59 ms
Connecting Capacity Main Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Flexible with Ferrule 1/2x 0.75 2.5 mm² Rigid 1/2x 0.75 4 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid 1/2x 0.75 2.5 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid 1/2x 0.75 2.5 mm ²
Wire Stripping Length	Auxiliary Circuit 9 mm Control Circuit 9 mm Main Circuit 9 mm
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 IP20
Terminal Type	Screw Terminals
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	72.5 mm
Product Net Height	68 mm
Product Net Weight	0.28 kg
Popular Downloads	
Data Sheet, Technical Information	1SBC100173C0201
Instructions and Manuals	1SBC101020M9701
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

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 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$

