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PRODUCT-DETAILS

ASL12-30-10S-81

ASL12-30-10S-81 24VDC Contactor



General Information

Extended Product Type	ASL12-30-10S-81
Product ID	1SBL113004R8110
EAN	3471523060012
Catalog Description	ASL12-30-10S-81 24VDC Contactor
	ASL12 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 ASLS contactors are the spring terminal version of the ASL range. The ASL series 1-stack 3-pole contactors are of the block type design Main poles and auxiliary contact
Long Description	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

Ordering

Minimum Order Quantity 40 piece

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.

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Customs Tariff Number 85364900

Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101020M9701
CAD Dimensional Drawing	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	72.5 mm
Product Net Height	68 mm
Product Net Weight	0.28 kg
Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	0
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 V Main Circuit 690 V
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 Θ = 40 °C 22 A acc. to IEC 60947-5-1, Θ = 40 °C 10 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 22 A (690 V) 60 °C 17 A (690 V) 70 °C 14 A
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 12 A (440 V) 60 °C 11 A (500 V) 60 °C 11 A (690 V) 60 °C 7 A (380 / 400 V) 60 °C 12 A (220 / 230 / 240 V) 60 °C 12 A
Rated Operational Current AC-15 (I _e)	(500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Rated Operational Current DC-13 (I _e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.27 A / 60 W (220 V) 0.27 A / 68 W
Rated Operational Power	(400 V) 5.5 kW

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AC 2 (D.)	(445.)0.5.5.12(4
AC-3 (P _e)	(415 V) 5.5 kW (440 V) 5.5 kW
	(500 V) 5.5 kW
	(690 V) 5.5 kW
	(220 / 230 / 240 V) 3 kW
Rated Short-time	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 124 A
Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 22 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A
voitage (icw)	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 in 1133 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	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 155 A
Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 90 A
Rated Insulation Voltage	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
(U_i)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Rated Impulse	Auxiliary Circuit 6 kV
Withstand Voltage (U _{imp}	Hannary encure of Kr
)	
Maximum Electrical	(AC-1) 600 cycles per hour
Switching Frequency	(AC-15) 1200 cycles per hour
	(AC-2) 1300 cycles per hour
	(AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour
Maximum Mechanical	3600 cycles per hour
Switching Frequency	5000 cycles per nour
Rated Control Circuit	DC Operation 24 V
Voltage (U _c)	
Power Loss	at Rated Operating Conditions AC-1 per Pole 1.1 W at Rated Operating Conditions AC-3 per Pole 0.33 W
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	Flexible with Ferrule 1/2x 0.75 2.5 mm ²
Main Circuit	Flexible with Insulated Ferrule 1/2x 0.75 1.5 mm ²
	Rigid 1/2x 0.75 2.5 mm²
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5 mm²
Auxiliary Circuit	Flexible with Insulated Ferrule 1/2x 0.75 1.5 mm²
	Rigid 1/2x 0.75 2.5 mm ²
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5 mm ²
Control Circuit	Flexible with Insulated Ferrule $1/2x 0.75 1.5 \text{ mm}^2$ Rigid $1/2x 0.75 2.5 \text{ mm}^2$
Wire Stripping Length	Auxiliary Circuit 10 mm
wire 3th pping Length	Control Circuit 10 mm
	Main Circuit 10 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	Spring Terminals
Product Name	Block Contactor

Technical UL/CSA	
General Use Rating UL/CSA	(600 V AC) 12 A
Horsepower Rating	(120 V AC) Single Phase 1/2 hp
UL/CSA	(200 208 V AC) Three Phase 2 hp
	(220 240 V AC) Three Phase 3 hp
	(240 V AC) Single Phase 1.5 hp
	(440 480 V AC) Three Phase 7.5 hp
	(550 600 V AC) Three Phase 10 hp
Full Load Amps Motor	(120 V AC) Single Phase 9.8 A

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Use

(200 ... 208 V AC) Three Phase 7.8 A (220 ... 240 V AC) Three Phase 9.6 A (240 V AC) Single Phase 10 A (440 ... 480 V AC) Three Phase 11 A (550 ... 600 V AC) Three Phase 11 A

Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 60 °C 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. 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 Open, Shock Direction: C2 14 g Shock Direction: A 20 g Shock Direction: B2 15 g
Resistance to Vibrations	3g Closed Position & 2g 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 Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
CB Certificate	CB_CN13475-M1
CCC Certificate	CCC_2007010309251577
CQC Certificate	CQC2007010309251577
Declaration of Conformity - CCC	2020980304001224
Declaration of Conformity - CE	1SBD250014U1000
Declaration of Conformity - UKCA	1SBD250049U1000
GOST Certificate	GOST_POCCCNME77B07822.pdf
UL Certificate	UL_20120917_E312527_1_1
UL Listing Card	UL_E312527

Container Information		
Package Level 1 Units	box 1 piece	
Package Level 1 Width	78 mm	
Package Level 1 Depth /	80 mm	

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Package Level 1 Height	48 mm
Package Level 1 Gross Weight	0.28 kg
Package Level 1 EAN	3471523060012
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 3 Units	960 piece

Classifications	
Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC002552 - Power contactor, DC switching
eClass	V11.0 : 27371018
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching

Accessories				
Identifier	Description	Type Quantity		Unit Of Measure
1SBN050010R1000	RV5/50 Surge Suppressor	RV5/50	1	piece
1SBN050020R1000	RT5/32 Surge Suppressor	RT5/32	1	piece

Categories

Length

Package Level 2 Gross Weight

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AS\ Contactors\ \rightarrow\ AS\ Contactors\ \rightarrow\ AS\ London Contactors\ \rightarrow\ AS\ Contactors\$

11.2 kg

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