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PRODUCT-DETAILS

## ASL09-30-32-81 ASL09-30-32-81 24VDC Contactor



General Information	
Extended Product Type	ASL09-30-32-81
Product ID	1SBL103001R8132
EAN	3471523061613
Catalog Description	ASL09-30-32-81 24VDC Contactor
Long Description	ASL09 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 AS series 2-stack 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 1st stack with 3 main poles and 1 N.O. built-in auxiliary contact, with a non-removable front-mounted 2 N.O. + 2 N.C. auxiliary contact block (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 including the "Mechanically Linked" symbol on the contactor side. 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.

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Minimum Order Quantity	I piece
Customs Tariff Number	85364900

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Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals CAD Dimensional Drawing	1SBC101020M9701 2CDC001079B0201
Dimensions	
Product Net Width Product Net Depth / Length	45 mm 100.2 mm
Product Net Height Product Net Weight	68 mm 0.32 kg
Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	3
Number of Auxiliary Contacts NC	2
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 <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors $\Theta$ = 40 °C 22 A acc. to IEC 60947-5-1, $\Theta$ = 40 °C 10 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 22 A (690 V) 60 °C 18 A (690 V) 70 °C 15 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 60 °C 9 A (440 V) 60 °C 8 A (500 V) 60 °C 8 A (500 V) 60 °C 5 A (380 / 400 V) 60 °C 9 A (220 / 230 / 240 V) 60 °C 9 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(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 $_{\rm e}$ )	(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) 0.57 A / 60 W (220 V) 0.27 A / 68 W
Rated Operational Power AC-3 (P <sub>e</sub> )	(400 V) 4 kW (415 V) 4 kW (440 V) 4 kW (500 V) 4 kW (690 V) 4 kW (220 / 230 / 240 V) 2.2 kW
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 100 A 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 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 230 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 65 A for 0.1 s 140 A

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	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
Rated Insulation Voltage (U <sub>i</sub> )	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 acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Auxiliary Circuit 6 kV
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-15) 1200 cycles per hour (AC-2 / AC-4) 300 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	DC Operation 24 V
Power Loss	at Rated Operating Conditions AC-1 per Pole 1 W at Rated Operating Conditions AC-3 per Pole 0.16 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 Main Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid 1/2x 0.75 4 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid 1/2x 0.75 2.5 mm²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid 1/2x 0.75 2.5 mm²
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
Tightening Torque	Auxiliary Circuit 1 N·m Control Circuit 1 N·m Main Circuit 1 N·m
Terminal Type	Screw Terminals
Product Name	Block Contactor
Technical UL/CSA	
General Use Rating UL/CSA	(600 V AC) 20 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 1/3 hp (200 208 V AC) Three Phase 2 hp (220 240 V AC) Three Phase 2 hp (240 V AC) Single Phase 1 hp (440 480 V AC) Three Phase 5 hp (550 600 V AC) Three Phase 7.5 hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 9 in·lb
Full Load Amps Motor Use	(120 V AC) Single Phase 7.2 A (200 208 V AC) Three Phase 7.8 A (220 240 V AC) Three Phase 6.8 A (240 V AC) Single Phase 8 A (440 480 V AC) Three Phase 7.6 A (550 600 V AC) Three Phase 9 A

## Environmental

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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

Resistance to Shock acc.
Closed, Shock Direction: B1 10 g
to IEC 60068-2-27

Closed, Shock Direction: C1 20 g
Closed, Shock Direction: C2 20 g
Open, Shock Direction: C2 20 g
Open, Shock Direction: C2 14 g
Open, Shock Direction: C2 14 g
Shock Direction: B2 15 g

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	72 mm
Package Level 1 Depth / Length	115 mm
Package Level 1 Height	48 mm
Package Level 1 Gross Weight	0.32 kg
Package Level 1 EAN	3471523061613
Package Level 2 Units	32 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	10.24 kg
Package Level 3 Units	768 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	EC002552 - Power contactor, DC switching
eClass	V11.0 : 27371018
UNSPSC	39121529
IDEA Granular Category	4763 >> Power contactor, DC switching

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

## Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AS\ Contactors\ \rightarrow\ AS\ Contactors\ \rightarrow\ AS\ Log\ Contactors\ \rightarrow\ AS\ Contactors\ \rightarrow\ AS\ Log\ Contactors\ Contactors\ Contactors\ Contactors\ Contactors\ Contactors\ Contactors\ Contactors\ Contactors\ Contac$ 

