

PRODUCT-DETAILS

## AL16-30-10 240V DC

## AL16-30-10 240V DC Contactor



Extended Product Type	AL16-30-10 240V DC
Product ID	1SBL183001R8910
EAN	3471522276896
Catalog Description	AL16-30-10 240V DC Contacto
Long Description	AL16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The AL 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 and side-mounted add on auxiliary contact blocks - 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. AL contactors are fitted with low consumption DC coils and are suitable for a direct control by PLC outputs

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Popular Downloads	
Data Sheet, Technical Information	1SBC100122C0202_Ch02
Instructions and Manuals	1SBC101003M5501

Rated Impulse

8 kV

Dimensions	
Product Net Width	44 mn
Product Net Depth / Length	97 mn
Product Net Height	78 mn
Product Net Weight	0.52 kg
Technical	
Number of Main Contacts NO	
Number of Main Contacts NC	(
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	
Rated Operational Yoltage	Auxiliary Circuit 690 \ Main Circuit 690 \
Rated Frequency (f)	Supply Circuit 50 60 H
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 30 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 30 (690 V) 55 °C 2' (690 V) 70 °C 2'
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 17 ¼ (440 V) 55 °C 16 ¼ (500 V) 55 °C 14 ¼ (690 V) 55 °C 10 ¼ (380 / 400 V) 55 °C 17 ¼ (220 / 230 / 240 V) 55 °C 1
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 9 kv (440 V) 9 kv (500 V) 9 kv (690 V) 9 kv (380 / 400 V) 7.5 kv (220 / 230 / 240 V) 4 kv
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-	8 x le AC-3
Rated Making Capacity NC-3 acc. to IEC 60947-4-	10 x le AC-3
Rated Operational Current AC-15 (I <sub>e</sub> )	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A
Short-Circuit Protective Devices	Auxiliary Circuit - gG Type Fuses 10 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 100 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hou (AC-2 / AC-4) 300 cycles per hou (AC-3) 1200 cycles per hou
	(24 V) 6 / 144 A
Rated Operational Current DC-13 (I <sub>e</sub> )	(48 V) 2.8 / 134 / (72 V) 2 / 144 / (125 V) 1.1 / 138 / (250 V) 0.55 / 138 /

Withstand	Voltage	(U <sub>imp</sub>

**RoHS Status** 

)	
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	DC Operation 240 V
Coil Consumption	Average Holding Value, from Warm State 3 W Average Pull-in Value, from Cold State 3 W
Operate Time	Between Coil De-energization and NC Contact Closing 16 27 ms Between Coil De-energization and NO Contact Opening 10 17 ms Between Coil Energization and NO Contact Closing 50 100 ms
Connecting Capacity Main Circuit	Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 mm²
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screw with cable clamp
Terminal Type	Screw Terminals

## **Environmental** Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 $^{\circ}\text{C}$ Ambient Air Temperature Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +55 °C Close to Contactor without Thermal O/L Relay (Uc) -40 ... +70 °C Close to Contactor for Storage -60 ... +80 °C Climatic Withstand acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II Maximum Operating Altitude Permissible Resistance to Shock acc. Closed, Shock Direction: A 20 K40 to IEC 60068-2-27 Closed, Shock Direction: B1 15 K40 Closed, Shock Direction: C1 20 K40 Closed, Shock Direction: C2 14 K40 Open, Shock Direction: A 10 K40 Open, Shock Direction: B1 5 K40 Open, Shock Direction: C1 8 K40 Open, Shock Direction: C2 8 K40 Shock Direction: B2 10 K40

Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
ASEFA Certificate	ASEFA_05203BT
CB Certificate	CB_FR_617239A
CQC Certificate	CQC2012010304534830
CSA Certificate	CSA_1041746
Declaration of Conformity - CCC	2020980304001613
Declaration of Conformity - CE	1SBD250804U1000
DNV Certificate	DNV_GL_TAE00001UN-1
DNV GL Certificate	DNV_GL_TAE00001UN-1
Environmental Information	1SBD250121E1004
GL Certificate	GL_26144_05HH
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	1SBC101003M5501
LOVAG Certificate	LOVAG_FR03023-FR03029
RoHS Information	1SBD250804U1000
UL Certificate	UL_20160205-E312527-10-2

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UL Listing Card UL\_E312527

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	86 mm
Package Level 1 Depth / Length	141 mm
Package Level 1 Height	51 mm
Package Level 1 Gross Weight	0.52 kg
Package Level 1 EAN	3471522276896
Package Level 2 Units	box 28 piece
Package Level 2 Width	300 mm
Package Level 2 Depth / Length	245 mm
Package Level 2 Height	308 mm
Package Level 2 Gross Weight	14.56 kg
Package Level 3 Units	336 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
eClass	V11.0 : 27371018
UNSPSC	39121529

## Categories

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

