

PRODUCT-DETAILS

AL26-30-10 48V DC

AL26-30-10 48V DC Contactor



General Information

Extended Product Type	AL26-30-10 48V DC
Product ID	1SBL243001R8310
EAN	3471522281838
Catalog Description	AL26-30-10 48V DC Contactor

Long Description

AL26 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	1SBC101007M5501
Dimension Diagram	FPTE307866

Dimensions

Product Net Width	54 mm
Product Net Depth / Length	110.6 mm
Product Net Height	90 mm
Product Net Weight	0.75 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
Rated Operational Voltage	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 45 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 45 (690 V) 55 °C 40 (690 V) 70 °C 32
Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 26 A (440 V) 55 °C 26 A (500 V) 55 °C 22 A (690 V) 55 °C 13 A (380 / 400 V) 55 °C 26 A (220 / 230 / 240 V) 55 °C 26
Rated Operational Power AC-3 (P _e)	(415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 11 kW (380 / 400 V) 11 kW (220 / 230 / 240 V) 6.5 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x I _e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x I _e AC-3
Rated Operational Current AC-15 (I _e)	(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 gG Type Fuses 50 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 420 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 106 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-2 / AC-4) 300 cycles per hour (AC-3) 1200 cycles per hour
Rated Operational Current DC-13 (I _e)	(24 V) 6 / 144 A (48 V) 2.8 / 134 A (72 V) 2 / 144 A (125 V) 1.1 / 138 A (250 V) 0.55 / 138 A
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse	8 kV

Withstand Voltage (U_{imp})

Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U_c)	DC Operation 48 V
Coil Consumption	Average Holding Value, from Warm State 3.5 W Average Pull-in Value, from Cold State 3.5 W
Operate Time	Between Coil De-energization and NO Contact Opening 12 ... 18 ms Between Coil Energization and NO Contact Closing 55 ... 110 ms
Connecting Capacity Main Circuit	Flexible with Cable End 0.75 ... 4 mm ² Rigid Cable 1.5 ... 6 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 mm ²
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
Connecting Terminals (delivered in open position) Main Poles	M 4 (+,-) pozidriv 2 screw with cable clamp
Terminal Type	Screw Terminals

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 40 A
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Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U_c) -40 ... 55 °C Close to Contactor without Thermal O/L Relay (U_c) -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	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: A 20 g Closed, Shock Direction: B1 15 g Closed, Shock Direction: C1 20 g Closed, Shock Direction: C2 14 g Open, Shock Direction: A 10 g Open, Shock Direction: B1 5 g Open, Shock Direction: C1 8 g Open, Shock Direction: C2 8 g Shock Direction: B2 10 g
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CB Certificate	CB_FR3192_60016914_509747
CCC Certificate	CCC_2004010304112231
CQC Certificate	CQC2004010304112231
CSA Certificate	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001611
Declaration of Conformity - CE	1SBD250804U1000
DNV Certificate	DNV_GL_TAE00001UN-1
DNV GL Certificate	DNV_GL_TAE00001UN-1
Environmental Information	1SBD250122E1002

GL Certificate	GL_26144_05HH
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	1SBC101007M5501
RoHS Information	1SBD250804U1000

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	100 mm
Package Level 1 Depth / Length	134 mm
Package Level 1 Height	62 mm
Package Level 1 Gross Weight	0.75 kg
Package Level 1 EAN	3471522281838
Package Level 2 Units	box 20 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	15 kg
Package Level 3 Units	384 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 : 27371003
UNSPSC	39121529

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

