

## PRODUCT-DETAILS

# AL26-30-10 12V DC

## AL26-30-10 12V DC Contactor



### General Information

|                       |                             |
|-----------------------|-----------------------------|
| Extended Product Type | AL26-30-10 12V DC           |
| Product ID            | 1SBL243001R8010             |
| EAN                   | 3471522281807               |
| Catalog Description   | AL26-30-10 12V 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      |
| Instructions and                  | 1SBC101008M5501      |

## Manuals (Part 2)

## 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<br>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 $q = 40\text{ }^{\circ}\text{C}$ 45 A<br>acc. to IEC 60947-5-1, $q = 40\text{ }^{\circ}\text{C}$ 16 A                                                                                                     |
| Rated Operational Current AC-1 ( $I_e$ )           | (690 V) 40 $^{\circ}\text{C}$ 45<br>(690 V) 55 $^{\circ}\text{C}$ 40<br>(690 V) 70 $^{\circ}\text{C}$ 32                                                                                                                                         |
| Rated Operational Current AC-3 ( $I_e$ )           | (415 V) 55 $^{\circ}\text{C}$ 26 A<br>(440 V) 55 $^{\circ}\text{C}$ 26 A<br>(500 V) 55 $^{\circ}\text{C}$ 22 A<br>(690 V) 55 $^{\circ}\text{C}$ 13 A<br>(380 / 400 V) 55 $^{\circ}\text{C}$ 26 A<br>(220 / 230 / 240 V) 55 $^{\circ}\text{C}$ 26 |
| Rated Operational Power AC-3 ( $P_e$ )             | (415 V) 11 kW<br>(440 V) 15 kW<br>(500 V) 15 kW<br>(690 V) 11 kW<br>(380 / 400 V) 11 kW<br>(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<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A                                                                                                                                                         |
| Short-Circuit Protective Devices                   | Auxiliary Circuit - gG Type Fuses 10 A<br>gG Type Fuses 50 A                                                                                                                                                                                     |
| Maximum Breaking Capacity                          | $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100\text{ A}$ ) at 440 V 420 A<br>$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100\text{ A}$ ) at 690 V 106 A                                                                           |
| Maximum Electrical Switching Frequency             | (AC-1) 600 cycles per hour<br>(AC-2 / AC-4) 300 cycles per hour<br>(AC-3) 1200 cycles per hour                                                                                                                                                   |
| Rated Operational Current DC-13 ( $I_e$ )          | (24 V) 6 / 144 A<br>(48 V) 2.8 / 134 A<br>(72 V) 2 / 144 A<br>(125 V) 1.1 / 138 A<br>(250 V) 0.55 / 138 A                                                                                                                                        |
| Rated Insulation Voltage                           | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V                                                                                                                                                                                                |

|                                                                    |                                                                                                                                                                                                   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (U <sub>i</sub> )                                                  | acc. to UL/CSA 600 V                                                                                                                                                                              |
| Rated Impulse<br>Withstand Voltage (U <sub>imp</sub> )             | 8 kV                                                                                                                                                                                              |
| Maximum Mechanical<br>Switching Frequency                          | 3600 cycles per hour                                                                                                                                                                              |
| Rated Control Circuit<br>Voltage (U <sub>c</sub> )                 | DC Operation 12 V                                                                                                                                                                                 |
| Coil Consumption                                                   | Average Holding Value, from Warm State 3.5 W<br>Average Pull-in Value, from Cold State 3.5 W                                                                                                      |
| Operate Time                                                       | Between Coil De-energization and NO Contact Opening 12 ... 18 ms<br>Between Coil Energization and NO Contact Closing 55 ... 110 ms                                                                |
| Connecting Capacity<br>Main Circuit                                | Flexible with Cable End 0.75 ... 4 mm <sup>2</sup><br>Rigid Cable 1.5 ... 6 mm <sup>2</sup>                                                                                                       |
| Connecting Capacity<br>Auxiliary Circuit                           | Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Cable 1 ... 4 mm <sup>2</sup>                                                                                                       |
| Degree of Protection                                               | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20 |
| Connecting Terminals<br>(delivered in open<br>position) Main Poles | M 4 (+,-) pozidriv 2 screw with cable clamp                                                                                                                                                       |
| Terminal Type                                                      | Screw Terminals                                                                                                                                                                                   |

## Technical UL/CSA

|                              |                 |
|------------------------------|-----------------|
| General Use Rating<br>UL/CSA | (600 V AC) 40 A |
|------------------------------|-----------------|

## Environmental

|                                               |                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air<br>Temperature                    | Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -40 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (U <sub>c</sub> ) -40 ... 70 °C<br>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<br>Altitude Permissible     | Without Derating 3000 m                                                                                                                                                                                                                                                                                     |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | Closed, Shock Direction: A 20 g<br>Closed, Shock Direction: B1 15 g<br>Closed, Shock Direction: C1 20 g<br>Closed, Shock Direction: C2 14 g<br>Open, Shock Direction: A 10 g<br>Open, Shock Direction: B1 5 g<br>Open, Shock Direction: C1 8 g<br>Open, Shock Direction: C2 8 g<br>Shock Direction: B2 10 g |
| RoHS Status                                   | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                                                           |

## Certificates and Declarations (Document Number)

|                                    |                           |
|------------------------------------|---------------------------|
| ASEFA Certificate                  | ASEFA_05503BT             |
| CB Certificate                     | CB_FR3192_60016914_509747 |
| CCC Certificate                    | CCC_2004010304112231      |
| CQC Certificate                    | CQC2004010304112231       |
| CSA Certificate                    | CSA_1033838_LR056745      |
| Declaration of<br>Conformity - CCC | 2020980304001611          |
| Declaration of<br>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       |
| Instructions and Manuals (Part 2) | 1SBC101008M5501       |
| LOVAG Certificate                 | LOVAG_FR03024-FR03032 |
| 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            | 3471522281807 |
| 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

