

PRODUCT-DETAILS

# A9-30-01 230-240V 50Hz / 277V 60Hz

## A9-30-01 230-240V 50Hz / 277V 60Hz

### Contactors



#### General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | A9-30-01 230-240V 50Hz / 277V 60Hz   |
| Product ID            | 1SBL141001R4201  |
| EAN                   | 3471522030429  |
| Catalog Description   | A9-30-01 230-240V 50Hz / 277V 60Hz Contactor   |
| Long Description      | A 9 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 A... 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: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available. |

#### 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  |
| UNSPSC                     | 39121529                                  |

#### Container Information

|                       |         |
|-----------------------|---------|
| Package Level 1 Units | 1 piece |
|-----------------------|---------|

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 78 mm         |
| Package Level 1 Depth / Length | 76 mm         |
| Package Level 1 Height         | 47 mm         |
| Package Level 1 Gross Weight   | 0.34 kg       |
| Package Level 1 EAN            | 3471522030429 |
| Package Level 2 Units          | box 63 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   | 21.42 kg      |
| Package Level 3 Units          | 1220 piece    |

### Certificates and Declarations (Document Number)

|                                |                          |
|--------------------------------|--------------------------|
| BV Certificate                 | BV_2634H07559E0          |
| CB Certificate                 | CB_CN44759               |
| CCC Certificate                | CCC_2018010304059156     |
| CSA Certificate                | CSA_1041746              |
| Declaration of Conformity - CE | 1SBD250801U1000          |
| DNV Certificate                | DNV-GL_TAE00000TX        |
| DNV GL Certificate             | DNV-GL_TAE00000TX        |
| EAC Certificate                | EAC_RU C-FR ME77 B01010  |
| Environmental Information      | 1SBD250001E1004          |
| GOST Certificate               | GOST_POCCFRME77B07175    |
| Instructions and Manuals       | FPTC407721P0001          |
| LR Certificate                 | LRS_9830011E4            |
| RINA Certificate               | RINA_ELE172319XG001      |
| RMRS Certificate               | RMRS_0507015250          |
| RoHS Information               | 1SBD250801U1000          |
| UL Certificate                 | UL_20160205-E312527-10-2 |
| UL Listing Card                | UL_E312527               |

### Environmental

|  |   |
|--|---|
| Ambient Air Temperature                    | Close to Contactor for Storage -60 ... +80 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +55 °C<br>Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C<br>Close to Contactor without Thermal O/L Relay (Uc) -40 ... +70 °C |
| Climatic Withstand                         | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II   |
| Maximum Operating Altitude Permissible     | 3000 m  |
| Resistance to Shock acc. to IEC 60068-2-27 | Shock Direction: A 20 K40<br>Shock Direction: B2 15 K40<br>Shock Direction: C1 20 K40<br>Shock Direction: C2 20 K40<br>Closed, Shock Direction: B1 10 K40<br>Open, Shock Direction: B1 5 K40  |
| RoHS Status                                | Following EU Directive 2011/65/EU   |

### Technical

|                            |   |
|----------------------------|---|
| Number of Main Contacts NO | 3 |
|----------------------------|---|

|  |   |
|--|---|
| Number of Main Contacts NC                               | 0   |
| Number of Auxiliary Contacts NO                          | 0   |
| Number of Auxiliary Contacts NC                          | 1   |
| Standards  | Devices complying with international standards IEC 947-1 / 947-4-1, and European standards EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to IEC 947-1, EN 60 947-1 and amendment 2 to IEC 947-4-1 |
| Rated Operational Voltage                                | Main Circuit 690 V  |
| Rated Frequency (f)                                      | Supply Circuit 50 60 Hz   |
| Conventional Free-air Thermal Current (I <sub>th</sub> ) | acc. to IEC 60947-5-1, q = 40 °C 16 A<br>acc. to IEC 60947-4-1, Open Contactors q = 40 °C 26 A  |
| Rated Operational Current AC-1 (I <sub>e</sub> )         | (690 V) 40 °C 25 A<br>(690 V) 55 °C 22 A<br>(690 V) 70 °C 18 A  |
| Rated Operational Current AC-3 (I <sub>e</sub> )         | (220 / 230 / 240 V) 55 °C 9 A<br>(380 / 400 V) 55 °C 9 A<br>(415 V) 55 °C 9 A<br>(440 V) 55 °C 9 A<br>(500 V) 55 °C 9 A<br>(690 V) 55 °C 7 A  |
| Rated Operational Power AC-3 (P <sub>e</sub> )           | (220 / 230 / 240 V) 2.2 kW<br>(380 / 400 V) 4 kW<br>(415 V) 4 kW<br>(440 V) 4 kW<br>(500 V) 5.5 kW<br>(690 V) 5.5 kW  |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1       | 8 x I <sub>e</sub> AC-3   |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1         | 10 x I <sub>e</sub> AC-3  |
| Rated Operational Current AC-15 (I <sub>e</sub> )        | (220 / 240 V) 4 A<br>(24 / 127 V) 6 A<br>(380 / 440 V) 3 A<br>(500 V) 2 A<br>(690 V) 2 A  |
| Short-Circuit Protective Devices                         | Auxiliary Circuit - gG Type Fuses 10 A<br>gG Type Fuses 25 A  |
| Maximum Breaking Capacity                                | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 250 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 90 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 <sub>e</sub> )        | (125 V) 1.1 / 138 A<br>(24 V) 6 / 144 A<br>(250 V) 0.55 / 138 A<br>(48 V) 2.8 / 134 A<br>(72 V) 2 / 144 A   |
| Rated Insulation Voltage (U <sub>i</sub> )               | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )      | 8 kV  |
| Mechanical Durability                                    | 10 million  |
| Maximum Mechanical Switching Frequency                   | 3600 cycles per hour  |
| Rated Control Circuit Voltage (U <sub>c</sub> )          | 50 Hz 230 ... 240 V<br>60 Hz 277 V  |
| Coil Consumption   | Average Holding Value 50 Hz 8.2 V·A<br>Average Holding Value 60 Hz 8.2 V·A<br>Average Pull-in Value 50 Hz 70 V·A<br>Average Pull-in Value 60 Hz 80 V·A  |
| Operate Time   | Between Coil De-energization and NC Contact Closing 9 ... 16 ms   |

Between Coil De-energization and NO Contact Opening 4 ... 11 ms  
 Between Coil Energization and NC Contact Opening 7 ... 21 ms  
 Between Coil Energization and NO Contact Closing 10 ... 26 ms

|  |   |
|--|---|
| Connecting Capacity<br>Main Circuit                                | Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Cable 1 ... 4 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                           |
| Connecting Terminals<br>(delivered in open<br>position) Main Poles | M 3.5 (+,-) pozidriv 2 screws with cable clamp  |
| Terminal Type  | Screw Terminals   |

## Dimensions

|                               |         |
|-------------------------------|---------|
| Product Net Width             | 44 mm   |
| Product Net Depth /<br>Length | 74 mm   |
| Product Net Height            | 74 mm   |
| Product Net Weight            | 0.34 kg |

## Popular Downloads

|                                      |                      |
|--------------------------------------|----------------------|
| Data Sheet, Technical<br>Information | 1SBC100122C0202_Ch02 |
| Instructions and<br>Manuals          | FPTC407721P0001      |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85364900 |

## Categories

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

