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# A16-30-10 220-230V 50Hz / 230-240V 60Hz

A16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor




## General Information

| | |
|---|---|
| Extended Product Type | A16-30-10 220-230V 50Hz / 230-240V 60Hz |
| Product ID | 1SBL181001R8010 |
| EAN | 3471522050809 |
| Catalog Description | A16-30-10 220-230V 50Hz / 230-240V 60Hz Contactor |
| Long Description | A16 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. |

## Ordering

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

## Popular Downloads

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

## Dimensions

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|---|---|
| Product Net Width | 44 mm |
| Product Net Depth / Length | 74 mm |
| Product Net Height | 74 mm |
| Product Net Weight | 0.34 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 |
| 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 |

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| | |
|---|---|
| Rated Frequency (f) | Supply Circuit 50 Hz<br>Supply Circuit 60 Hz |
| Conventional Free-air Thermal Current ($I_{th}$) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 30 A<br>acc. to IEC 60947-5-1, q = 40 °C 16 A |
| Rated Operational Current AC-1 ($I_e$) | (690 V) 40 °C 30 A<br>(690 V) 55 °C 27 A<br>(690 V) 70 °C 23 A |
| Rated Operational Current AC-3 ($I_e$) | (220 / 230 / 240 V) 55 °C 17 A<br>(380 / 400 V) 55 °C 17 A<br>(415 V) 55 °C 17 A<br>(440 V) 55 °C 16 A<br>(500 V) 55 °C 14 A<br>(690 V) 55 °C 10 A |
| Rated Operational Power AC-3 ($P_e$) | (220 / 230 / 240 V) 4 kW<br>(380 / 400 V) 7.5 kW<br>(415 V) 9 kW<br>(440 V) 9 kW<br>(500 V) 9 kW<br>(690 V) 9 kW |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x Ie AC-3 |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x Ie AC-3 |
| Rated Operational Current AC-15 ($I_e$) | (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 32 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 250 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 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 ($I_e$) | (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 ($U_i$) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V<br>acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage ($U_{imp}$) | 8 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage ($U_c$) | 50 Hz 220 ... 230 V<br>60 Hz 230 ... 240 V |
| Coil Consumption | Average Holding Value 50 / 60 Hz 8 V·A<br>Average Holding Value 50 / 60 Hz 2 W<br>Average Pull-in Value 50 Hz 74 V·A<br>Average Pull-in Value 60 Hz 70 V·A |
| Operate Time | Between Coil Energization and NO Contact Closing 10 ... 26 ms<br>Between Coil De-energization and NO Contact Opening 4 ... 11 ms |
| Connecting Capacity Main Circuit | Flexible with Cable End 0.75 ... 2.5 mm²<br>Rigid Cable 1 ... 4 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Cable End 0.75 ... 2.5 mm²<br>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 screws with cable clamp |
| Terminal Type | Screw Terminals |

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## Environmental

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|---|---|
| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C<br>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 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 g<br>Closed, Shock Direction: B1 10 g<br>Open, Shock Direction: B1 5 g<br>Shock Direction: B2 15 g<br>Shock Direction: C1 20 g<br>Shock Direction: C2 20 g |
| RoHS Status | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

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## Certificates and Declarations (Document Number)

| | |
|---|---|
| BV Certificate | BV_2634H07559D0 |
| CB Certificate | CB_FR_602227A |
| CCC Certificate | CCC_2013010304615753<br>CCC_2004010309130463 |
| 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 | 1SBD250003E1004 |
| GOST Certificate | GOST_POCCFRME77B07175 |
| Instructions and Manuals | FPTC407721P0001 |
| LOVAG Certificate | LOVAG_FR97039 |
| LR Certificate | LRS_9830011E4 |
| RINA Certificate | RINA_ELE128713XG001 |
| RMRS Certificate | RMRS_0507015250 |
| RoHS Information | 1SBD350050R1000 |
| UL Certificate | UL_20160205-E312527-10-2 |
| UL Listing Card | UL_E312527 |

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## Container Information

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|---|---|
| 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 | 3471522050809 |
| Package Level 2 Units | 63 piece |
| Package Level 2 Gross Weight | 21.42 kg |
| Package Level 3 Units | 1220 piece |

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## Classifications

| | |
|---|---|
| Object Classification Code | Q |
| ETIM 4 | EC000066 - Magnet contactor, AC-switching |

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| | |
|---|---|
| ETIM 5 | EC000066 - Magnet contactor, AC-switching |
| ETIM 6 | EC000066 - Power contactor, AC switching |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| UNSPSC | 39121529 |

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## Categories

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



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