

PRODUCT-DETAILS

A16-30-10 380-400V 50Hz / 400-415V 60Hz

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Contactors



General Information

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| Extended Product Type | A16-30-10 380-400V 50Hz / 400-415V 60Hz |
| Product ID | 1SBL181001R8510 |
| EAN | 3471522050854 |
| Catalog Description | A16-30-10 380-400V 50Hz / 400-415V 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

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| 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 |
| 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 30 A acc. to IEC 60947-5-1, q = 40 °C 16 A |
| Rated Operational Current AC-1 (I _e) | (690 V) 40 °C 30 (690 V) 55 °C 27 (690 V) 70 °C 23 |
| Rated Operational Current AC-3 (I _e) | (415 V) 55 °C 17 A (440 V) 55 °C 16 A (500 V) 55 °C 14 A (690 V) 55 °C 10 A (380 / 400 V) 55 °C 17 A (220 / 230 / 240 V) 55 °C 17 |
| Rated Operational Power AC-3 (P _e) | (415 V) 9 kW (440 V) 9 kW (500 V) 9 kW (690 V) 9 kW (380 / 400 V) 7.5 kW (220 / 230 / 240 V) 4 kW |
| Rated Operational Power AC-6b (P _e) | (230 / 240 V) 40 °C, 50 / 60 Hz 7.5 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 7.5 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 6 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 12.5 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 10 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 12.5 kvar (440 V) 40 °C, 50 / 60 Hz 14 kvar (440 V) 55 °C, 50 / 60 Hz 14 kvar (440 V) 70 °C, 50 / 60 Hz 10.5 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 15.5 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 15.5 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 12 kvar (690 V) 40 °C, 50 / 60 Hz 21.5 kvar (690 V) 55 °C, 50 / 60 Hz 21.5 kvar (690 V) 70 °C, 50 / 60 Hz 16.5 kvar |
| 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 |

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| Short-Circuit Protective Devices | Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 32 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 90 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 IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V 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 380 ... 400 V 60 Hz 400 ... 415 V |
| Coil Consumption | Average Holding Value 50 / 60 Hz 8 V·A Average Pull-in Value 50 Hz 74 V·A Average Pull-in Value 60 Hz 70 V·A |
| Operate Time | Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NO Contact Closing 10 ... 26 ms |
| Connecting Capacity Main Circuit | Flexible with Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 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 3.5 (+,-) pozidriv 2 screws with cable clamp |
| Terminal Type | Screw Terminals |

Technical UL/CSA

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|---------------------------|-----------------|
| General Use Rating UL/CSA | (600 V AC) 30 A |
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Environmental

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| 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: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: A 20 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g |
| RoHS Status | Following EU Directive 2011/65/EU |

Certificates and Declarations (Document Number)

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|------------------------------------|---|
| BV Certificate | BV_2634H07559E0 |
| CB Certificate | CB_CN44759 |
| CCC Certificate | CCC_2018010304059156 CCC_2004010309130463 |
| CQC Certificate | CQC2013010304615753 CQC2018010304059156 CQC2004010309130463 |
| CSA Certificate | CSA_1041746 |
| Declaration of Conformity - CCC | 2020980304001607 2020980304001616 2020980304001229 |
| Declaration of Conformity - CE | 1SBD250801U1000 |
| DNV Certificate | DNV-GL_TAE00000TX |
| DNV GL Certificate | DNV-GL_TAE00000TX |
| EAC Certificate | EAC_RU C-FR ME77 B03599 |
| Environmental Information | 1SBD250003E1004 |
| Instructions and Manuals | FPTC407721P0001 |
| LOVAG Certificate | LOVAG_FR97039 |
| 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 |

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 | 3471522050854 |
| 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 |

Classifications

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| 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

