

General Information

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| 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. |

Categories

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

Ordering

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| EAN: | 3471522050809 |
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85369085 |

Dimensions

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| Product Net Width: | 44 mm |
| Product Net Depth: | 74 mm |
| Product Net Height: | 74 mm |
| Product Net Weight: | 0.340 kg |

Container Information

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| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 78 mm |
| Package Level 1 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 3 Units: | 1220 piece |

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 Hz Supply Circuit 60 Hz |
| Conventional Free-air Thermal Current (I_{th}): | acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C}$ 30 A acc. to IEC 60947-5-1, $q = 40\text{ °C}$ 16 A |
| Rated Operational Current AC-1 (I_e): | (690 V) 40 °C 30 A (690 V) 55 °C 27 A (690 V) 70 °C 23 A |
| Rated Operational Current AC-3 (I_e): | (220 / 230 / 240 V) 55 °C 17 A (380 / 400 V) 55 °C 17 A (415 V) 55 °C 17 A (440 V) 55 °C 16 A (500 V) 55 °C 14 A (690 V) 55 °C 10 A |
| Rated Operational Power AC-3 (P_e): | (220 / 230 / 240 V) 4 kW (380 / 400 V) 7.5 kW (415 V) 9 kW (440 V) 9 kW (500 V) 9 kW (690 V) 9 kW |
| Rated Breaking Capacity AC-3 acc. | 8 x I_e AC-3 |

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| to IEC 60947-4-1: | |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1: | 10 x le AC-3 |
| Rated Operational Current AC-15 (I_e): | (220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A |
| Short-Circuit Protective Devices: | Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 32 A |
| Rated Short-time Withstand Current (I_{cw}): | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 30 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 0.1 s 140 A for 1 s 100 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): | (125 V) 1.1 / 138 A (24 V) 6 / 144 A (250 V) 0.55 / 138 A (48 V) 2.8 / 134 A (72 V) 2 / 144 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 |
| Coil Operating Limits: | (acc. to IEC 60947-4-1) 0.85 ... 1.1 x U _c (at θ ≤ 55 °C) °C |
| Rated Control Circuit Voltage (U_c): | 50 Hz 220 ... 230 V 60 Hz 230 ... 240 V |
| Coil Consumption: | Average Holding Value 50 / 60 Hz 8 V·A Average Holding Value 50 / 60 Hz 2 W Average Pull-in Value 50 Hz 74 V·A Average Pull-in Value 60 Hz 70 V·A |
| Operate Time: | Between Coil Energization and NO Contact Closing 10 ... 26 ms Between Coil De-energization and NO Contact Opening 4 ... 11 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 Coil Terminals IP20 |
| Connecting terminals (delivered in open position) Main poles: | M 3.5 (+,-) pozidriv 2 screws with cable clamp |
| Terminal Type: | Screw Terminals |

Environmental

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| Ambient Air Temperature: | Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C Close to Contactor for Storage -60 ... +80 °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 |
| 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 Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g |
| RoHS Status: | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Certificates and Declarations (Document Number)

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| BV Certificate: | BV_2634H07559D0 |
| CB Certificate: | CB_FR_602227A |
| CCC Certificate: | CCC_2013010304615753 CCC_2004010309130463 |

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| CSA Certificate: | CSA_1041746 |
| cUL Certificate: | UL_071301E39231 |
| Declaration of Conformity - CE: | 1SBD250803C3000 |
| DNV Certificate: | DNV_E12025 |
| EAC Certificate: | EAC_RU C-FR ME77 B01010 |
| GL Certificate: | GL_9949797HH |
| GOST Certificate: | GOST_POCCFRME77B07175 |
| LOVAG Certificate: | LOVAG_FR97039 |
| LR Certificate: | LRS_9830011E4 |
| RINA Certificate: | RINA_ELE128713XG001 |
| RMRS Certificate: | RMRS_0507015250 |
| RoHS Information: | 1SBD350050R1000 |
| UL Certificate: | UL_071301E39231 |

Classifications

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| E-nummer: | 3227724 |
| ETIM 5.0: | EC000066 - Magnet contactor, AC-switching |
| UNSPSC: | 39121529 |

