

PRODUCT-DETAILS

AE50-30-11 125V DC

AE50-30-11 125V DC Contactor



General Information

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| Extended Product Type | AE50-30-11 125V DC |
| Product ID | 1SBL359001R8711 |
| EAN | 3471522104878 |
| Catalog Description | AE50-30-11 125V DC Contactor |

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| Long Description | <p>AE50 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC / 1000 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The AE... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles and 2 built-in auxiliary contacts, front-mounted add-on auxiliary contact blocks - Control circuit: DC operated with standard double-winding DC coils (with add-on factory-mounted lagging contact for insertion of the "holding" winding) - Accessories: a wide range of accessories is available.</p> |
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Ordering

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

Popular Downloads

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|-----------------------------------|----------------------|
| Data Sheet, Technical Information | 1SBC100122C0202_Ch02 |
| Instructions and Manuals | FPTC407700P0003 |

Dimensions

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| Product Net Width | 94 mm |
| Product Net Depth / Length | 108 mm |
| Product Net Height | 110 mm |
| Product Net Weight | 1.24 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 | 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) according to amendment A11 to IEC 947-1, EN 60 947-1 and amendment 2 to IEC 947-4-1 |
| Rated Operational Voltage | Main Circuit 1000 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 100 A acc. to IEC 60947-5-1, q = 40 °C 16 A |
| Rated Operational Current AC-1 (I _e) | (690 V) 40 °C 100 (690 V) 55 °C 85 (690 V) 70 °C 70 |
| Rated Operational Current AC-3 (I _e) | (415 V) 55 °C 50 A (440 V) 55 °C 45 A (500 V) 55 °C 45 A (690 V) 55 °C 35 A (1000 V) 55 °C 23 A (380 / 400 V) 55 °C 50 A (220 / 230 / 240 V) 55 °C 53 |
| Rated Operational Power AC-3 (P _e) | (415 V) 25 kW (440 V) 25 kW (500 V) 30 kW (690 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 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 (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A |
| Short-Circuit Protective Devices | Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 100 A |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 630 A |
| Maximum Electrical Switching Frequency | (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour |
| Rated Operational Current DC-13 (I _e) | (24 V) 6 / 144 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A (125 V) 0.55 / 69 A (250 V) 0.3 / 75 A |
| Rated Insulation Voltage | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V |

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| (U _i) | 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 |
| Mechanical Durability | 5 million |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | DC Operation 125 V |
| Coil Consumption | Average Holding Value, from Warm State 4 W Average Pull-in Value, from Cold State 200 W Pull-in at Max. Rated Control Circuit Voltage DC 200 W |
| Operate Time | Between Coil De-energization and NC Contact Closing 8 ... 18 ms Between Coil De-energization and NO Contact Opening 5 ... 15 ms Between Coil Energization and NC Contact Opening 10 ... 27 ms Between Coil Energization and NO Contact Closing 30 ... 30 ms |
| Connecting Capacity Main Circuit | Flexible with Cable End 6 ... 16 mm ² Rigid Cable 6 ... 25 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 IP10 |
| Connecting Terminals (delivered in open position) Main Poles | M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector |
| Terminal Type | Screw Terminals |

Technical UL/CSA

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| General Use Rating UL/CSA | (600 V AC) 80 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 |
| RoHS Status | Following EU Directive 2011/65/EU |

Certificates and Declarations (Document Number)

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|------------------------------------|-------------------------|
| ASEFA Certificate | ASEFA_10801-10901 |
| CB Certificate | CB_CN45323 |
| CCC Certificate | CCC_2018010304129269 |
| CQC Certificate | CQC2018010304129269 |
| CSA Certificate | CSA_1033838_LR056745 |
| Declaration of Conformity - CCC | 2020980304001621 |
| Declaration of Conformity - CE | 1SBD250804U1000 |
| EAC Certificate | EAC_RU C-FR ME77 B01010 |
| Environmental Information | 1SBD250017E1003 |
| GOST Certificate | GOST_POCCFRME77B07175 |
| Instructions and Manuals | FPTC407700P0003 |

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|-------------------|--------------------------|
| LOVAG Certificate | LOVAG_FR01002 |
| RMRS Certificate | RMRS_0507015250 |
| RoHS Information | 1SBD250804U1000 |
| UL Certificate | UL_20120830-E312527-10-1 |
| UL Listing Card | UL_E312527 |

Container Information

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|--------------------------------|---------------|
| Package Level 1 Units | 1 piece |
| Package Level 1 Width | 140 mm |
| Package Level 1 Depth / Length | 146 mm |
| Package Level 1 Height | 96 mm |
| Package Level 1 Gross Weight | 1.24 kg |
| Package Level 1 EAN | 3471522104878 |
| Package Level 2 Units | box 20 piece |
| Package Level 2 Width | 503 mm |
| Package Level 2 Depth / Length | 153 mm |
| Package Level 2 Height | 307 mm |
| Package Level 2 Gross Weight | 24.8 kg |
| Package Level 3 Units | 160 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

