

PRODUCT-DETAILS

AX12-30-01-81

AX12-30-01-81 24V 50/60Hz Contactor



General Information

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| Extended Product Type | AX12-30-01-81 |
| Product ID | 1SBL911074R8101 |
| EAN | 3471522394811 |
| Catalog Description | AX12-30-01-81 24V 50/60Hz Contactor |
| Long Description | AX09...AX25 contactors are mainly used for controlling 3-phase motors and power circuits up to 690 V AC. These contactors are of the block type design with: - 3 main poles and 1 built-in auxiliary contact - control circuit: AC operated - add-on auxiliary contact blocks for front or side mounting and a wide range of accessories. |

Ordering

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

Popular Downloads

| | |
|--------------------------|-----------------|
| Instructions and Manuals | 9AKK107492A7057 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

Dimensions

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| Product Net Width | 44 mm |
| Product Net Depth / Length | 74 mm |
| Product Net Height | 74 mm |
| Product Net Weight | 0.326 kg |

Technical

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| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 0 |
| Number of Auxiliary Contacts NC | 1 |
| Rated Operational Voltage | Auxiliary Circuit 690 V Main Circuit 690 V |
| Rated Frequency (f) | Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current (I_{th}) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40^\circ\text{C}$ 26 A acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A |
| Rated Operational Current AC-1 (I_e) | (220 / 240 V) 55 °C 22 A (690 V) 40 °C 25 A (690 V) 70 °C 18 A |
| Rated Operational Current AC-3 (I_e) | (415 V) 55 °C 12 A (440 V) 55 °C 9 A (500 V) 55 °C 9 A (690 V) 55 °C 7 A (380 / 400 V) 55 °C 12 A (220 / 230 / 240 V) 55 °C 12 A |
| Rated Operational Power AC-3 (P_e) | (415 V) 5.5 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW (380 / 400 V) 5.5 kW (220 / 230 / 240 V) 3 kW |
| Rated Operational Current AC-15 (I_e) | (500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A (400 / 440 V) 2 A |
| Rated Short-time Withstand Current Low Voltage (I_{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 120 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 26 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 280 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 70 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-15) 1200 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour |
| Rated Operational Current DC-13 (I_e) | (24 V) 6 A / 144 W (110 V) 1.1 A / 121 W (125 V) 1.1 A / 138 W (220 V) 0.55 A / 121 W (250 V) 0.55 A / 138 W (400 V) 2.8 A / 134 W (500 V) 2 A / 144 W |

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| Rated Insulation Voltage (U _i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V |
| Rated Impulse Withstand Voltage (U _{imp}) | Auxiliary Circuit 6 kV |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz 24 V 60 Hz 24 V |
| 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 |
| 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 |
| Terminal Type | Screw Terminals |

Technical UL/CSA

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|---------------------------|---|
| General Use Rating UL/CSA | (600 V AC) 25 A |
| Horsepower Rating UL/CSA | (120 V AC) Single Phase 3/4 hp (200 ... 208 V AC) Three Phase 3 hp (220 ... 240 V AC) Three Phase 3 hp (240 V AC) Single Phase 2 hp (440 ... 480 V AC) Three Phase 7.5 hp (550 ... 600 V AC) Three Phase 10 hp |
| Tightening Torque UL/CSA | Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 9 in-lb |

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 -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air -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 | Without Derating 3000 m |

Material Compliance

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| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Information | 2CMT2021-006277 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Certificates and Declarations

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|-----------------|-----------------|
| CB Certificate | 9AKK107492A7072 |
| CCC Certificate | 9AKK107492A7089 |

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|------------------------------------|--------------------------|
| CCS Certificate | 9AKK107492A7096 |
| CQC Certificate | CQC2013010304646608 |
| Declaration of Conformity - CCC | 2020980304001066 |
| Declaration of Conformity - CE | 1SBD250011U1000 |
| UL Certificate | UL_20140702-E312527-10-5 |

Container Information

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|-----------------------------------|---------------|
| Package Level 1 Units | 1 piece |
| Package Level 1 Width | 48 mm |
| Package Level 1 Depth / Length | 78 mm |
| Package Level 1 Height | 79 mm |
| Package Level 1 Gross Weight | 0.34 kg |
| Package Level 1 EAN | 3471522394811 |
| Package Level 2 Units | 30 piece |
| Package Level 2 Width | 240 mm |
| Package Level 2 Depth / Length | 295 mm |
| Package Level 2 Height | 145 mm |
| Package Level 2 Gross Weight | 10.2 kg |

Classifications

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| Object Classification Code | Q |
| ETIM 6 | EC000066 - Power contactor, AC switching |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |
| E-Number (Finland) | 3707310 |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AX Contactors → AX12

