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# Detailed information for: AX12-30-01-81

This page contains technical data sheet, documents library and links to offering related to this product. If you require any other information, please contact us using form located at the bottom of the page.

# AX12-30-01-81

## 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. |

## Categories

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

## Ordering

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

## Popular Downloads

| | |
|---|---|
| **Instructions and Manuals:** | 9AKK107492A7057 |

## 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<br>Main Circuit 690 V |
| **Rated Frequency (f):** | Auxiliary Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz |
| **Conventional Free-air Thermal Current ($I_{th}$):** | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 26 A<br>acc. to IEC 60947-5-1, q = 40 °C 16 A |
| **Rated Operational Current AC-1 ($I_e$):** | (220 / 240 V) 55 °C 22 A<br>(690 V) 40 °C 25 A |

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|---|---|
| | (690 V) 70 °C 18 A |
| **Rated Operational Current AC-3 ($I_e$):** | (415 V) 55 °C 12 A<br>(440 V) 55 °C 9 A<br>(500 V) 55 °C 9 A<br>(690 V) 55 °C 7 A<br>(380 / 400 V) 55 °C 12 A<br>(220 / 230 / 240 V) 55 °C 12 A |
| **Rated Operational Power AC-3 ($P_e$):** | (415 V) 5.5 kW<br>(440 V) 4 kW<br>(500 V) 5.5 kW<br>(690 V) 5.5 kW<br>(380 / 400 V) 5.5 kW<br>(220 / 230 / 240 V) 3 kW |
| **Rated Operational Current AC-15 ($I_e$):** | (500 V) NC 2<br>(500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A<br>(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<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 26 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 280 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 70 A<br>for 0.1 s 140 A<br>for 1 s 100 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-15) 1200 cycles per hour<br>(AC-3) 1200 cycles per hour<br>(DC-13) 900 cycles per hour |
| **Rated Operational Current DC-13 ($I_e$):** | (24 V) 6 A / 144 W<br>(110 V) 1.1 A / 121 W<br>(125 V) 1.1 A / 138 W<br>(220 V) 0.55 A / 121 W<br>(250 V) 0.55 A / 138 W<br>(400 V) 2.8 A / 134 W<br>(500 V) 2 A / 144 W |
| **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<br>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

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| **Degree of Protection:** | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20<br>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<br>(200 ... 208 V AC) Three Phase 3 hp<br>(220 ... 240 V AC) Three Phase 3 hp<br>(240 V AC) Single Phase 2 hp<br>(440 ... 480 V AC) Three Phase 7.5 hp<br>(550 ... 600 V AC) Three Phase 10 hp |
| **Tightening Torque UL/CSA:** | Auxiliary Circuit 9 in·lb<br>Control Circuit 9 in·lb<br>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<br>Close to Contactor without Thermal O/L Relay -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C<br>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:** | 3000 m |
| **RoHS Status:** | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

## Certificates and Declarations (Document Number)

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|---|---|
| **CB Certificate:** | 9AKK107492A7072 |
| **CCC Certificate:** | 9AKK107492A7089 |
| **CCS Certificate:** | 9AKK107492A7096 |
| **CQC Certificate:** | CQC2013010304646608 |
| **Declaration of Conformity - CCC:** | 2020980304001066 |
| **Declaration of Conformity - CE:** | 1SBD250011U1000 |
| **Instructions and Manuals:** | 9AKK107492A7057 |
| **RoHS Information:** | 1SBD251301E1000 |

## 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 |
| **UNSPSC:** | 39121529 |
| **IDEA Granular Category Code (IGCC):** | 4755 >> Contactors |
| **E-Number (Finland):** | 3707310 |