

## PRODUCT-DETAILS

# AX09-30-10-84

## AX09-30-10-84 110V50Hz/110-120V60Hz Contactor



### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | AX09-30-10-84   |
| Product ID            | 1SBL901074R8410   |
| EAN                   | 3471522391841   |
| Catalog Description   | AX09-30-10-84 110V50Hz/110-120V60Hz 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

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

### Popular Downloads

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

## Dimensions

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

## Technical

|   |   |
|---|---|
| Number of Main Contacts NO                                  | 3   |
| Number of Main Contacts NC                                  | 0   |
| Number of Auxiliary Contacts NO                             | 1   |
| Number of Auxiliary Contacts NC                             | 0   |
| 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 $\Theta = 40^\circ\text{C}$ 24 A<br>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<br>(690 V) 40 °C 22 A<br>(690 V) 70 °C 18 A  |
| Rated Operational Current AC-3 ( $I_e$ )                    | (415 V) 55 °C 9 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 9 A<br>(220 / 230 / 240 V) 55 °C 9 A  |
| Rated Operational Power AC-3 ( $P_e$ )                      | (415 V) 4 kW<br>(440 V) 4 kW<br>(500 V) 5.5 kW<br>(690 V) 5.5 kW<br>(380 / 400 V) 4 kW<br>(220 / 230 / 240 V) 2.2 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 100 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 50 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 250 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 60 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 $I_e > 100$ A) at 440 V 250 A<br>$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 90 A   |
| Maximum Electrical Switching Frequency                      | (AC-1) 600 cycles per hour<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 <sub>i</sub> )          | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V  |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | Auxiliary Circuit 6 kV  |
| Maximum Mechanical Switching Frequency              | 3600 cycles per hour  |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 50 Hz 110 V<br>60 Hz 110 ... 120 V  |
| Operate Time  | Between Coil De-energization and NC Contact Closing 9 ... 16 ms<br>Between Coil De-energization and NO Contact Opening 4 ... 11 ms<br>Between Coil Energization and NC Contact Opening 7 ... 21 ms<br>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<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   |
| Terminal Type                                       | Screw Terminals   |

## Technical UL/CSA

|                           |  |
|---------------------------|--|
| General Use Rating UL/CSA | (600 V AC) 21 A  |
| Horsepower Rating UL/CSA  | (120 V AC) Single Phase 1/2 hp<br>(200 ... 208 V AC) Three Phase 2 hp<br>(220 ... 240 V AC) Three Phase 2 hp<br>(240 V AC) Single Phase 1.5 hp<br>(440 ... 480 V AC) Three Phase 5 hp<br>(550 ... 600 V AC) Three Phase 7.5 hp |
| Tightening Torque UL/CSA  | Auxiliary Circuit 9 in-lb<br>Control Circuit 9 in-lb<br>Main Circuit 9 in-lb   |

## Environmental

|  |   |
|--|---|
| 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 | Without Derating 3000 m   |

## Material Compliance

|   |  |
|---|--|
| 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

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

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

Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | 1 piece       |
| Package Level 1 Width             | 48 mm         |
| Package Level 1 Depth /<br>Length | 78 mm         |
| Package Level 1 Height            | 79 mm         |
| Package Level 1 Gross<br>Weight   | 0.34 kg       |
| Package Level 1 EAN               | 3471522391841 |
| Package Level 2 Units             | 30 piece      |
| Package Level 2 Width             | 240 mm        |
| Package Level 2 Depth /<br>Length | 295 mm        |
| Package Level 2 Height            | 145 mm        |
| Package Level 2 Gross<br>Weight   | 10.2 kg       |

Classifications

|                                       |  |
|---------------------------------------|--|
| 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<br>Code (IGCC) | 4755 >> Contactors                       |
| E-Number (Finland)                    | 3707306                                  |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AX Contactors → AX09

