



 PRODUCT-DETAILS

AX18-30-10-80

AX18-30-10-80 220-230V50Hz/230-240V60Hz Contactor



General Information

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|-----------------------|---|
| Extended Product Type | AX18-30-10-80 |
| Product ID | 1SBL921074R8010 |
| EAN | 3471522395801 |
| Catalog Description | AX18-30-10-80 220-230V50Hz/230-240V60Hz 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

| | |
|-----------------------|------------------|
| EPLAN Data | 9AAC177926_EPLAN |
| Data Sheet, Technical | 1SBC100187L0203 |

Information

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|--------------------------|-----------------|
| 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 | 1 |
| Number of Auxiliary Contacts NC | 0 |
| 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 $\Theta = 40\text{ }^{\circ}\text{C}$ 28 A acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A |
| Rated Operational Current AC-1 (I _e) | (220 / 240 V) 55 °C 25 A (690 V) 40 °C 27 A (690 V) 70 °C 20 A |
| Rated Operational Current AC-3 (I _e) | (415 V) 55 °C 18 A (440 V) 55 °C 12 A (500 V) 55 °C 12 A (690 V) 55 °C 9 A (380 / 400 V) 55 °C 18 A (220 / 230 / 240 V) 55 °C 18 A |
| 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 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 |
| Rated Operational Power AC-3 (P _e) | (415 V) 9 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW (380 / 400 V) 7.5 kW (220 / 230 / 240 V) 4 kW |
| Rated Short-time Withstand Current Low Voltage (I _{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 145 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 28 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A |

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| | 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 Ie > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 90 A |
| 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 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 |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c) | 50 Hz 220 ... 230 V 60 Hz 230 ... 240 V |
| Power Loss | at Rated Operating Conditions AC-1 per Pole 1 W at Rated Operating Conditions AC-3 per Pole 0.2 W |
| 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 |
| Tightening Torque | Auxiliary Circuit 1 N·m Control Circuit 1 N·m Main Circuit 1 N·m |
| Terminal Type | Screw Terminals |
| Product Name | Block Contactor |

Technical UL/CSA

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|---------------------------|--|
| General Use Rating UL/CSA | (600 V AC) 30 A |
| Horsepower Rating UL/CSA | (120 V AC) Single Phase 1 hp (200 ... 208 V AC) Three Phase 5 hp (220 ... 240 V AC) Three Phase 5 hp (240 V AC) Single Phase 3 hp (440 ... 480 V AC) Three Phase 10 hp (550 ... 600 V AC) Three Phase 15 hp |
| Tightening Torque UL/CSA | Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 9 in·lb |
| Full Load Amps Motor Use | (120 V AC) Single Phase 16 A (200 ... 208 V AC) Three Phase 17.5 A (220 ... 240 V AC) Three Phase 15.2 A (240 V AC) Single Phase 17 A (440 ... 480 V AC) Three Phase 14 A (550 ... 600 V AC) Three Phase 17 A |

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 | according to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 Specification II |
| Maximum Operating | Without Derating 3000 m |

Altitude Permissible

Material Compliance

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| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Declaration | 2CMT2021-006277 |
| RoHS Information | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| SCIP | 04263894-a884-47f8-9d57-8150565d112c Bulgaria |
| Simplified SCIP | 01731298-b2d8-4702-bbcf-ae2a0e2c0da1 France 0d28b4d9-175f-408c-9f16-e95422cc70f0 Germany 18cee740-e770-4b8c-8a25-cd0109d52cb0 Sweden 26fc22df-7bb0-4098-9ce4-f0484ad383ad Hungary 34eed3a9-3813-4fed-adc2-fd88a02f172a Netherlands 362c0450-9691-4080-8d08-1edd46644212 Portugal 3d31ece8-f7cb-40fd-b1f3-6f368379251c Sweden 3e60a83b-4a3c-465d-9ba9-0957bdfd100d Poland 4c43fd63-7777-4553-ba19-57628859425d Croatia 58552496-0908-4e19-a881-d85135d5ae19 Greece 6f2b09d4-d7ef-4e3a-bad9-11c90f1a4798 Czech Republic 7585c89d-583d-469a-a747-4fd0e54e9d7e Germany 7d91453d-3f33-4831-b601-63397de2a8c2 Finland 7e180c97-6396-4df8-a59d-6c4d23df92bd Denmark 7ff1909c-8c58-4f05-a0a8-b2da85fe0a1e Spain 9ffabfb4-a88a-43ac-a46f-70f60e387aa2 Italy a666e81d-f5da-401e-abe5-4c6a9d8f49d2 Hungary a8177241-f617-4436-9e09-184e43dc0bb1 Belgium bc7edf4f-db1a-4315-8da6-6df026f56d8a France cf4fc4e7-4315-4bf4-96e1-7aa69551e00b Estonia d33352b8-116e-4532-ac29-d7f1f208fadd Belgium d82eccab-f5c9-4989-a810-58757e528715 Norway dc1c2737-6317-4648-95c1-709167981fab Poland e36ad6ad-2f2b-4b02-a25f-06664946a6d3 Germany ebf58b52-c49c-4f48-a3c1-f34a27aafd02 Germany f112d6cf-9316-45a8-a54f-9df708358fd9 Poland f8c0f8f2-42ac-4178-8195-0e53de400863 Germany |
| Toxic Substances Control Act - TSCA | 2CMT2023-006525 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

ABB EcoSolutions

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| Environmental Product Declaration - EPD | No Declaration Needed |
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Certificates and Declarations

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|---------------------------------|--------------------------|
| CB Certificate | 9AKK107492A7072 |
| CCC Certificate | 9AKK107492A7089 |
| CCS Certificate | GZ23PTB00147 |
| 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 | box 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 | 3471522395801 |

External Classifications and Standards

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|------------------------------------|--|
| Object Classification Code | Q |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| ETIM 9 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |
| E-Number (Finland) | 3707326 |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|------------------------------------|------------|----------|-----------------|
| 1SBN010015R1001 | CE5-01D0.1 Auxiliary Contact Block | CE5-01D0.1 | 1 | piece |
| 1SBN010015R1010 | CE5-10D0.1 Auxiliary Contact Block | CE5-10D0.1 | 1 | piece |
| 1SBN010016R1001 | CE5-01W0.1 Auxiliary Contact Block | CE5-01W0.1 | 1 | piece |
| 1SBN010016R1010 | CE5-10W0.1 Auxiliary Contact Block | CE5-10W0.1 | 1 | piece |
| 1SBN010017R1001 | CE5-01D2 Auxiliary Contact Block | CE5-01D2 | 1 | piece |
| 1SBN010017R1010 | CE5-10D2 Auxiliary Contact Block | CE5-10D2 | 1 | piece |
| 1SBN010018R1001 | CE5-01W2 Auxiliary Contact Block | CE5-01W2 | 1 | piece |
| 1SBN010018R1010 | CE5-10W2 Auxiliary Contact Block | CE5-10W2 | 1 | piece |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AX Contactors → AX18

