



 PRODUCT-DETAILS

AX50-30-00-80

AX50-30-00-80 220-230V50Hz/230-240V60Hz Contactor



General Information

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| Extended Product Type | AX50-30-00-80 |
| Product ID | 1SBL351074R8000 |
| EAN | 3471522403803 |
| Catalog Description | AX50-30-00-80 220-230V50Hz/230-240V60Hz Contactor |
| Long Description | AX50...AX80 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 – control circuit: AC operated – add-on auxiliary contact blocks (optional) for 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 | 9AAC177930_EPLAN |
| Data Sheet, Technical | 1SBC100187L0203 |

Information

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|--------------------------|-----------------|
| Instructions and Manuals | 9AKK107492A7059 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

Dimensions

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| Product Net Width | 70 mm |
| Product Net Depth / Length | 110 mm |
| Product Net Height | 108 mm |
| Product Net Weight | 1.01 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 | 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 $\Theta = 40\text{ °C}$ 100 A |
| Rated Operational Current AC-1 (I _e) | (220 / 240 V) 55 °C 85 A (690 V) 40 °C 100 A (690 V) 70 °C 70 A |
| 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 (380 / 400 V) 55 °C 50 A (220 / 230 / 240 V) 55 °C 53 A |
| 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 Short-time Withstand Current Low Voltage (I _{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 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 |
| 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-3) 600 cycles per hour |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |

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| 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 5 W at Rated Operating Conditions AC-3 per Pole 1.3 W |
| Operate Time | Between Coil De-energization and NC Contact Closing 7 ... 14 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NC Contact Opening 7 ... 22 ms Between Coil Energization and NO Contact Closing 8 ... 27 ms |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Tightening Torque | Control Circuit 1 N-m Main Circuit 4 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) 80 A |
| Horsepower Rating UL/CSA | (120 V AC) Single Phase 3 hp (200 ... 208 V AC) Three Phase 15 hp (220 ... 240 V AC) Three Phase 20 hp (240 V AC) Single Phase 10 hp (440 ... 480 V AC) Three Phase 40 hp (550 ... 600 V AC) Three Phase 50 hp |
| Tightening Torque UL/CSA | Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 35 in-lb |
| Full Load Amps Motor Use | (120 V AC) Single Phase 34 A (200 ... 208 V AC) Three Phase 48.3 A (220 ... 240 V AC) Three Phase 54 A (240 V AC) Single Phase 50 A (440 ... 480 V AC) Three Phase 52 A (550 ... 600 V AC) Three Phase 52 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 Altitude Permissible | Without Derating 3000 m |

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 | 8e5934bd-b1ad-45d3-99ff-14bd34f3d701 Bulgaria 092ea57c-f7d4-44ab-b076-e913290aeaba Germany 0a060834-034d-40e1-9167-8eb83393c94d France 14022466-c9a1-4007-9ae3-7920532320e2 Germany 1a679185-327b-4131-b2d0-fbb3db901e95 Sweden 1c2d7427-2b93-4227-af61-5456fbd7eef9 Denmark 1eb5cff9-a438-4660-a991-0024d0468676 Greece |
| Simplified SCIP | |

3127946a-f587-41d1-b1c2-f368c37fdadc Poland
 3bbe40f8-820f-48af-a0ed-9a6c8ad75bc6 Germany
 3e8afc49-96ea-4d9a-a664-d40b49e943c1 Hungary
 4b7b470b-a4be-447a-ab19-26faad4bd73a Belgium
 71456489-563b-4439-9a1a-eeb2ae004fb5 Sweden
 79d1d1a9-5c48-455e-8529-033551b49341 Germany
 85aa4b63-8f66-4742-a40f-01319a4a372d Croatia
 87840595-d49c-43cc-81fe-91c793c002b3 Norway
 97805e70-3645-402e-a986-0b9d206f5e4e France
 a70ea036-ace7-44bd-9429-c63180bd2f6c Poland
 a8d4af2d-375a-47c7-b0d9-3e7bce0c5f9c Italy
 ab8edb45-62c2-487a-993c-22835728e13f Netherlands
 bc32fa5c-01cc-4ebe-abe7-d54f160d8263 Germany
 bf561d97-199d-49ac-b9f5-0d9cb5d41b02 Hungary
 cd48be9b-60b8-4740-8fba-ba59dbdaa600 Czech Republic
 cdd9e0a2-667f-4973-acde-4cca632aad81 Poland
 ce06aa7c-c35d-444e-a806-155a123caeff Portugal
 d10c5023-45d4-444c-8458-a5a06e1a4f14 Spain
 ec2dd648-efa8-486d-9495-b0a677eae119 Belgium
 f325f64a-a160-4603-a8cc-ddec6bbb695b Finland
 f37fdd47-e8fd-4309-83ee-4b2b6370382e Estonia

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| 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 | 9AKK107492A7074 |
| CCC Certificate | 9AKK107492A7091 |
| CCS Certificate | GZ23PTB00147 |
| CQC Certificate | CQC2013010304646607 |
| Declaration of Conformity - CCC | 2020980304001064 |
| Declaration of Conformity - CE | 1SBD250011U1000 |
| UL Certificate | UL_20140702-E312527-10-7 |

Container Information

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| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 102 mm |
| Package Level 1 Depth / Length | 143 mm |
| Package Level 1 Height | 152 mm |
| Package Level 1 Gross Weight | 1.12 kg |
| Package Level 1 EAN | 3471522403803 |

External Classifications and Standards

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| Object Classification Code | Q |
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| 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) | 3707354 |

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 → AX50

