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**PRODUCT-DETAILS**

# AX06-30-10-80

AX06-30-10-80 220-230V50Hz 230-240V60Hz  
Contactor



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**General Information**

<b>Extended Product Type:</b>	AX06-30-10-80
<b>Product ID:</b>	1SBL891074R8010
<b>EAN:</b>	3471522409805
<b>Catalog Description:</b>	AX06-30-10-80 220-230V50Hz 230-240V60Hz Contactor
<b>Long Description:</b>	AX06 contactor relays are used for switching auxiliary and control circuits.
<b>Display Name:</b>	AX06-30-10-80

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**Ordering**

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900

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**Popular Downloads**

<b>EPLAN Data:</b>	9AAC186507_EPLAN
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<b>Data Sheet, Technical Information:</b>	1SBC100187L0203
<b>Instructions and Manuals:</b>	9AKK107492A7057
<b>CAD Dimensional Drawing:</b>	2CDC001079B0201

## Dimensions

<b>Product Net Width:</b>	44 mm
<b>Product Net Depth / Length:</b>	74 mm
<b>Product Net Height:</b>	74 mm
<b>Product Net Weight:</b>	0.326 kg

## Technical

<b>Number of Main Contacts NO:</b>	3
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 690 V Main Circuit 690 V
<b>Rated Frequency (f):</b>	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ }^{\circ}\text{C}$ 22 A acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(220 / 240 V) 55 $^{\circ}\text{C}$ 20 A (690 V) 40 $^{\circ}\text{C}$ 20 A (690 V) 70 $^{\circ}\text{C}$ 16 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(415 V) 55 $^{\circ}\text{C}$ 7 A (440 V) 55 $^{\circ}\text{C}$ 7 A (500 V) 55 $^{\circ}\text{C}$ 7 A (690 V) 55 $^{\circ}\text{C}$ 5 A (380 / 400 V) 55 $^{\circ}\text{C}$ 7 A (220 / 230 / 240 V) 55 $^{\circ}\text{C}$ 7 A
<b>Rated Operational Current AC-15 (<math>I_e</math>):</b>	(690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A (400 / 440 V) 2 A
<b>Rated Operational Current DC-13 (<math>I_e</math>):</b>	(24 V) 6 A / 144 W (110 V) 0.55 A / 60 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
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(415 V) 3 kW (440 V) 3 kW (500 V) 3.5 kW (690 V) 4 kW (380 / 400 V) 3 kW (220 / 230 / 240 V) 1.5 kW

<b>Rated Short-time Withstand Current Low Voltage (<math>I_{cw}</math>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 100 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 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 60 A
<b>Maximum Breaking Capacity:</b>	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
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Auxiliary Circuit 6 kV
<b>Maximum Electrical Switching Frequency:</b>	(AC-1) 600 cycles per hour (AC-15) 1200 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour
<b>Maximum Mechanical Switching Frequency:</b>	3600 cycles per hour
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
<b>Power Loss:</b>	at Rated Operating Conditions AC-1 per Pole 0.8 W at Rated Operating Conditions AC-3 per Pole 0.1 W
<b>Operate Time:</b>	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
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
<b>Tightening Torque:</b>	Auxiliary Circuit 1 N-m Control Circuit 1 N-m Main Circuit 1 N-m
<b>Terminal Type:</b>	Screw Terminals
<b>Product Name:</b>	Block Contactor

## Technical UL/CSA

<b>General Use Rating UL/CSA:</b>	(600 V AC) 20 A
<b>Horsepower Rating UL/CSA:</b>	(120 V AC) Single Phase 1/3 hp (200 ... 208 V AC) Three Phase 1.5 hp (220 ... 240 V AC) Three Phase 2 hp (240 V AC) Single Phase 3/4 hp (440 ... 480 V AC) Three Phase 3 hp (550 ... 600 V AC) Three Phase 5 hp
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 9 in-lb
<b>Full Load Amps Motor Use:</b>	(120 V AC) Single Phase 7.2 A (200 ... 208 V AC) Three Phase 6.9 A (220 ... 240 V AC) Three Phase 6.8 A (240 V AC) Single Phase 6.9 A (440 ... 480 V AC) Three Phase 4.8 A (550 ... 600 V AC) Three Phase 6.1 A

## Environmental

<b>Ambient Air Temperature:</b>	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
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**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

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	2CMT2021-006202
<b>RoHS Declaration:</b>	2CMT2021-006277
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>SCIP:</b>	6991ddfc-8634-426f-a916-c950c9560383 Bulgaria
<b>Simplified SCIP:</b>	1af71cd8-d6a5-4307-9d0a-b2b5e1170380 Poland 1ef65a2a-f330-4b84-b229-b771ac7812a6 Sweden 29761c34-2601-445d-b74b-99f1135756c5 Italy 2a721845-4e0c-455b-b957-8a1e8f781fbb Belgium 35013852-ce3f-46c9-9ab0-f1e1407f0776 Germany 3b564b80-0dab-4288-ad4b-256ff9e021cb Germany 419c9a6c-4ade-4ae9-83d4-ef461e545626 Hungary 43a6338e-017e-4e74-9acf-dad87b90bd95 Poland 4d30e89d-f388-41fb-81d0-9a33ff443f73 Poland 54d8bdb7-6cd4-4846-bf5c-9f94f71268a7 Hungary 5e8fe7c4-3583-4d87-98e7-54c3285d87de Sweden 75886f0c-90a3-4a1b-a52a-54e058bc451a France 79bf8d07-e94b-47a0-9a79-b9004c9d0ddf Germany 7c293951-53e9-45e3-af8a-14d496659bd4 Greece 8066c2f1-fd23-43cd-87a6-224fab5ffec4 Denmark 926e13c0-4933-42a4-96d3-684cfc514254 Belgium a524c1b4-e6e1-4164-8043-b9ecf322390c Croatia ae79e5eb-8c34-467f-bf5a-7f32ae3ee265 Netherlands c1ca8a6f-303f-4453-959f-83e720c1685d Germany d35eec65-5e5d-4cdd-a9df-dd08ee736237 Germany d4bd3ce4-93de-49ab-99e5-3c12fdb1a48 France dbabeb42-071b-4c0b-9954-c48ff4c1ab23 Finland dcf0278d-81e2-4586-af18-a31176d8c75f Portugal e3ac605d-c4ce-4c4d-912a-6403d01aeaf7 Estonia e67e1d9f-01e9-4c10-9468-be55e88d2652 Spain f1a9f678-2b03-4321-aa59-f919ae05af70 Norway ff3ead0c-a19c-4c03-a9b5-597e4d29e0d1 Czechia
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006525
<b>WEEE B2C / B2B:</b>	Business To Business
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)

## ABB EcoSolutions

**Environmental Product Declaration - EPD:** No Declaration Needed

## Certificates and Declarations

<b>CB Certificate:</b>	9AKK107492A7072
<b>CCC Certificate:</b>	9AKK107492A7089
<b>CCS Certificate:</b>	GZ23PTB00147
<b>CQC Certificate:</b>	CQC2013010304646608
<b>Declaration of Conformity - CCC:</b>	2020980304001066

<b>Declaration of Conformity - CE:</b>	1SBD250011U1000
<b>UL Certificate:</b>	UL_20140702-E312527-10-5

## Container Information

<b>Package Level 1 Units:</b>	box 1 piece
<b>Package Level 1 Width:</b>	48 mm
<b>Package Level 1 Depth / Length:</b>	78 mm
<b>Package Level 1 Height:</b>	79 mm
<b>Package Level 1 Gross Weight:</b>	0.34 kg
<b>Package Level 1 EAN:</b>	3471522409805

## External Classifications and Standards

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

## Accessories

Identifier	Description	Type	Qty	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

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > AX Contactors > AX06

