



## PRODUCT-DETAILS

**AX40-30-10-80****AX40-30-10-80 220-230V50Hz/230-240V60Hz  
Contactor****General Information**

<b>Extended Product Type:</b>	AX40-30-10-80
<b>Product ID:</b>	1SBL321074R8010
<b>EAN:</b>	3471522401809
<b>Catalog Description:</b>	AX40-30-10-80 220-230V50Hz/230-240V60Hz Contactor
<b>Long Description:</b>	AX32, AX40 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.
<b>Display Name:</b>	AX40-30-10-80

**Ordering**

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

## Popular Downloads

<b>EPLAN Data:</b>	9AAC177929_EPLAN
<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>	54 mm
<b>Product Net Depth / Length:</b>	90 mm
<b>Product Net Height:</b>	108.3 mm
<b>Product Net Weight:</b>	0.667 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 $\Theta = 40\text{ }^{\circ}\text{C}$ 65 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 $^{\circ}\text{C}$ 60 A (690 V) 40 $^{\circ}\text{C}$ 60 A (690 V) 70 $^{\circ}\text{C}$ 42 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(415 V) 55 $^{\circ}\text{C}$ 40 A (440 V) 55 $^{\circ}\text{C}$ 37 A (500 V) 55 $^{\circ}\text{C}$ 33 A (690 V) 55 $^{\circ}\text{C}$ 25 A (380 / 400 V) 55 $^{\circ}\text{C}$ 40 A (220 / 230 / 240 V) 55 $^{\circ}\text{C}$ 40 A
<b>Rated Operational Current AC-15 (<math>I_e</math>):</b>	(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
<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 (P<sub>e</sub>):</b>	(415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW (380 / 400 V) 18.5 kW (220 / 230 / 240 V) 11 kW
<b>Rated Short-time Withstand Current Low Voltage (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 65 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 0.1 s 140 A for 1 s 100 A
<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 820 A cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 340 A
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</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 (U<sub>c</sub>):</b>	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
<b>Power Loss:</b>	at Rated Operating Conditions AC-1 per Pole 3 W at Rated Operating Conditions AC-3 per Pole 1.3 W
<b>Operate Time:</b>	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 6 ... 18 ms Between Coil Energization and NO Contact Closing 8 ... 21 ms
<b>Degree of Protection:</b>	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
<b>Tightening Torque:</b>	Auxiliary Circuit 1 N·m Control Circuit 1 N·m Main Circuit 2.3 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) 60 A
<b>Horsepower Rating UL/CSA:</b>	(120 V AC) Single Phase 3 hp (200 ... 208 V AC) Three Phase 10 hp (220 ... 240 V AC) Three Phase 15 hp (240 V AC) Single Phase 7.5 hp (440 ... 480 V AC) Three Phase 30 hp (550 ... 600 V AC) Three Phase 40 hp
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 20 in·lb

<b>Full Load Amps Motor Use:</b>	(120 V AC) Single Phase 34 A (200 ... 208 V AC) Three Phase 32.2 A (220 ... 240 V AC) Three Phase 42 A (240 V AC) Single Phase 40 A (440 ... 480 V AC) Three Phase 40 A (550 ... 600 V AC) Three Phase 41 A
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## Environmental

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<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
<b>Climatic Withstand:</b>	according to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 Specification II
<b>Maximum Operating Altitude Permissible:</b>	Without Derating 3000 m

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## Material Compliance

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<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>	d9555e2a-368d-41ee-8ae7-27c24af40588 Bulgaria
<b>Simplified SCIP:</b>	0ae1fe1e-c83b-46ca-89c1-07b5d482e44e Belgium 122ef34c-6042-4382-8878-0f1d48ad762c Poland 16f8bd2d-942b-488e-addd-13cb3af1858a Finland 26682576-03f1-43f6-8928-03019c48ad39 Germany 2c04b54a-7094-43bf-aa9f-866b80e71d37 Croatia 2cdfdba9-e87c-4d74-8e07-eee3965300e7 Norway 33744b7d-3e8d-4520-b929-134f513da6a8 France 3b624912-4468-470d-b28a-4bd604758620 Poland 44cde3d3-bb9b-4af8-8cb4-15de0fb2fa4f Germany 463b054c-b98b-490e-bd11-1ae9f7fef7f0 France 635ddf8a-15fe-4267-bb30-57e755a6c1da Netherlands 68f7c907-c36f-401c-b030-3f554af8ba3e Germany 6ae85869-bf59-4da4-9709-958eec520c34 Italy 7018fd65-e8c4-4a2a-bb0e-558171732cd0 Sweden 73d1582f-cf16-4296-b314-b8bb8938ea59 Greece 77efb287-fa1d-46b1-bf0a-857c80c58b7b Denmark 780a5937-91b2-4047-b8c5-3fd1ae8ea470 Sweden 84a7f303-1ddc-4928-b42a-d58037f1aabc Belgium 8b633fa0-061a-49b5-9bef-88f189ddb035 Spain 9308489a-549e-4a74-ae89-c1ac4efd6cfd Germany abf883b4-54ba-48b1-a901-6027e370fea2 Portugal b488227a-69ae-4e33-910c-85dd7f736ae7 Hungary b4e0f02f-9d0a-45f8-b9e5-9f6d830a25a3 Estonia be53e08d-5a06-4e3c-9852-450444c0da66 Czech Republic e33764a8-a284-4193-94a4-247e62ff988c Poland e91f3e94-af20-4fbc-b9c0-995452a48485 Hungary f5bc4fea-7417-46fc-832c-7b4759f8f95a Germany
<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

CB Certificate:	9AKK107492A7073
CCC Certificate:	9AKK107492A7090
CCS Certificate:	GZ23PTB00147
CQC Certificate:	CQC2013010304647116
Declaration of Conformity - CCC:	2020980304001065
Declaration of Conformity - CE:	1SBD250011U1000
UL Certificate:	UL_20140702-E312527-10-6

## Container Information

Package Level 1 Units:	box 1 piece
Package Level 1 Width:	65 mm
Package Level 1 Depth / Length:	101 mm
Package Level 1 Height:	115 mm
Package Level 1 Gross Weight:	0.71 kg
Package Level 1 EAN:	3471522401809

## External Classifications and Standards

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):	3707349

## Accessories

Identifier	Description	Qty	Type	Unit Of Measure
1SBN010015R1001	CE5-01D0.1 Auxiliary Contact Block	1	CE5-01D0.1	piece
1SBN010015R1010	CE5-10D0.1 Auxiliary Contact Block	1	CE5-10D0.1	piece
1SBN010016R1001	CE5-01W0.1 Auxiliary Contact Block	1	CE5-01W0.1	piece

1SBN010016R1010	CE5-10W0.1 Auxiliary Contact Block	1	CE5-10W0.1	piece
1SBN010017R1001	CE5-01D2 Auxiliary Contact Block	1	CE5-01D2	piece
1SBN010017R1010	CE5-10D2 Auxiliary Contact Block	1	CE5-10D2	piece
1SBN010018R1001	CE5-01W2 Auxiliary Contact Block	1	CE5-01W2	piece
1SBN010018R1010	CE5-10W2 Auxiliary Contact Block	1	CE5-10W2	piece

## Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > AX Contactors > AX40

