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 PRODUCT-DETAILS

## AX40-30-10-80

### AX40-30-10-80 220-230V50Hz/230-240V60Hz Contactor




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**General Information**

Extended Product Type	AX40-30-10-80
Product ID	1SBL321074R8010
EAN	3471522401809
Catalog Description	AX40-30-10-80 220-230V50Hz/230-240V60Hz Contactor
Long Description	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.

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**Ordering**

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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**Popular Downloads**

EPLAN Data	9AAC177929_EPLAN
Data Sheet, Technical	1SBC100187L0203

## Information

Instructions and Manuals	9AKK107492A7057
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product Net Width	54 mm
Product Net Depth / Length	90 mm
Product Net Height	108.3 mm
Product Net Weight	0.667 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 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 $\Theta = 40^\circ\text{C}$ 65 A 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 60 A (690 V) 40 °C 60 A (690 V) 70 °C 42 A
Rated Operational Current AC-3 ( $I_e$ )	(415 V) 55 °C 40 A (440 V) 55 °C 37 A (500 V) 55 °C 33 A (690 V) 55 °C 25 A (380 / 400 V) 55 °C 40 A (220 / 230 / 240 V) 55 °C 40 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) 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
Rated Operational Power AC-3 ( $P_e$ )	(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
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	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
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 820 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 340 A
Rated Insulation Voltage (Ui)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (Uimp)	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 (Uc)	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
Power Loss	at Rated Operating Conditions AC-1 per Pole 3 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 6 ... 18 ms Between Coil Energization and NO Contact Closing 8 ... 21 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 2.3 N-m
Terminal Type	Screw Terminals
Product Name	Block Contactor

### Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 60 A
Horsepower Rating UL/CSA	(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
Tightening Torque UL/CSA	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 20 in-lb
Full Load Amps Motor Use	(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

### Environmental

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**

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	d9555e2a-368d-41ee-8ae7-27c24af40588 Bulgaria
Simplified SCIP	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
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**

Environmental Product Declaration - EPD	No Declaration Needed
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**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	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 → AX40

