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 PRODUCT-DETAILS

## AX40-30-10-84

### AX40-30-10-84 110V50Hz/110-120V60Hz Contactor




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**General Information**

Extended Product Type	AX40-30-10-84
Product ID	1SBL321074R8410
EAN	3471522401847
Catalog Description	AX40-30-10-84 110V50Hz/110-120V60Hz 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**

Data Sheet, Technical Information	1SBC100187L0203
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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 <sub>th</sub> )	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
Rated Operational Current AC-1 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>cw</sub> )	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 (U <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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 <sub>c</sub> )	50 Hz 110 V 60 Hz 110 ... 120 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	acc. 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

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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)

## 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	3471522401847
Package Level 2 Units	12 piece
Package Level 2 Width	240 mm
Package Level 2 Depth / Length	295 mm
Package Level 2 Height	145 mm
Package Level 2 Gross Weight	8.52 kg

## Classifications

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

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## Categories

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

