



PRODUCT-DETAILS

AX32-30-10-81

AX32-30-10-81 24V 50/60Hz Contactor



General Information

Extended Product Type:	AX32-30-10-81
Product ID:	1SBL281074R8110
EAN:	3471522399816
Catalog Description:	AX32-30-10-81 24V 50/60Hz 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.
Display Name:	AX32-30-10-81

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

EPLAN Data:	9AAC177928_EPLAN
Data Sheet, Technical Information:	1SBC100187L0203
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 Θ = 40 °C 65 A acc. to IEC 60947-5-1, Θ = 40 °C 16 A
Rated Operational Current AC-1 (I_e):	(220 / 240 V) 55 °C 55 A (690 V) 40 °C 55 A (690 V) 70 °C 39 A
Rated Operational Current AC-3 (I_e):	(415 V) 55 °C 32 A (440 V) 55 °C 32 A (500 V) 55 °C 28 A (690 V) 55 °C 21 A (380 / 400 V) 55 °C 32 A (220 / 230 / 240 V) 55 °C 32 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) 15 kW (440 V) 18.5 kW (500 V) 18.5 kW (690 V) 18.5 kW (380 / 400 V) 15 kW (220 / 230 / 240 V) 9 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 I _e > 100 A) at 440 V 820 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 340 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-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_c):	50 Hz 24 V 60 Hz 24 V
Power Loss:	at Rated Operating Conditions AC-1 per Pole 2.5 W at Rated Operating Conditions AC-3 per Pole 0.9 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) 50 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 10 hp (240 V AC) Single Phase 7.5 hp (440 ... 480 V AC) Three Phase 25 hp (550 ... 600 V AC) Three Phase 30 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 28 A (240 V AC) Single Phase 40 A (440 ... 480 V AC) Three Phase 34 A (550 ... 600 V AC) Three Phase 32 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 Altitude Permissible:	Without Derating 3000 m

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:	b1fa6147-b8e6-497e-b8b5-e77f6de66c31 Bulgaria
Simplified SCIP:	01f40ebb-dc7f-4062-a2f4-db030593fae4 Portugal 0b76bdd1-1628-4da6-84ab-ef6841c867c3 Poland 124e7676-0c41-4227-8a66-3a06165990f9 Poland 1275f581-a637-4bf4-a93d-0384a65d57ca Netherlands 152973e3-6a14-48ef-9057-fcdf8aa4f0f8 France 1b1f77ee-d40c-4ce0-9248-07e84764140b Germany 329104d4-0fe3-4429-8e4d-caa76c46d643 Germany 390f1a18-8ef5-4f4b-8c71-86f7b8223a6c Belgium 392a3f54-aa7c-4ef2-8149-f4d9a346663e Italy 392f0c7a-e3ef-4370-9a2b-d05a7d4bd6a1 Poland 4263760a-c69b-4b99-b4fd-19ad6a698394 Sweden 5cd95e6d-f927-40e2-8697-dd43a0a84187 France 5e9bdea2-7c1e-4539-9b8c-306d87f8c8b1 Finland 6b019147-087f-416f-9bdd-6a52c1a6f8f5 Czechia 6d97588e-59bd-4ae1-a1bf-6bd1297154c3 Germany 7723fd6f-10ec-4a5c-9c74-7ac754bd0ec4 Croatia b91ebfd0-5fcd-4b1d-ae67-0c1341c880c1 Germany b976d492-7598-453c-af98-f3f764c0352c Spain bdcc1957-3f37-47c2-a252-33048b130228 Germany c1c9dc2a-f651-4bd1-95eb-7c3ad3207c69 Estonia c73c8b05-5c2f-4ea3-9f87-d96a1fc3aa92 Hungary ca17dbff-93b0-48b6-95c1-0d24e4b50c92 Norway ca69bf46-ecee-40cc-a4c6-73d77c93c8b7 Greece caa0a1a5-f6d3-4ca5-9f4d-242a0972e771 Denmark e626dd16-2449-4dbd-8a48-e145e132182e Hungary e7e53fd5-aa43-4a84-aeb0-3c16a51666f9 Sweden f723043a-10be-4fcb-9e6b-6724a33c2484 Belgium
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

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:	3471522399816

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):	3707343

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

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