



 PRODUCT-DETAILS

AX12-30-10-80

AX12-30-10-80 220-230V50Hz/230-240V60Hz Contactor



General Information

Extended Product Type	AX12-30-10-80
Product ID	1SBL911074R8010
EAN	3471522393807
Catalog Description	AX12-30-10-80 220-230V50Hz/230-240V60Hz Contactor
Long Description	AX09...AX25 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

EPLAN Data	9AAC177925_EPLAN
Data Sheet, Technical	1SBC100187L0203

Information

Instructions and Manuals	9AKK107492A7057
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	44 mm
Product Net Depth / Length	74 mm
Product Net Height	74 mm
Product Net Weight	0.326 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 $\Theta = 40\text{ }^{\circ}\text{C}$ 26 A acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
Rated Operational Current AC-1 (I _e)	(220 / 240 V) 55 °C 22 A (690 V) 40 °C 25 A (690 V) 70 °C 18 A
Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 12 A (440 V) 55 °C 9 A (500 V) 55 °C 9 A (690 V) 55 °C 7 A (380 / 400 V) 55 °C 12 A (220 / 230 / 240 V) 55 °C 12 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) 1.1 A / 121 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) 5.5 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW (380 / 400 V) 5.5 kW (220 / 230 / 240 V) 3 kW
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 120 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 55 A

	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 280 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 70 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 250 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 90 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 220 ... 230 V 60 Hz 230 ... 240 V
Power Loss	at Rated Operating Conditions AC-1 per Pole 0.8 W at Rated Operating Conditions AC-3 per Pole 0.1 W
Operate Time	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
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 1 N-m
Terminal Type	Screw Terminals
Product Name	Block Contactor

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 25 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 3/4 hp (200 ... 208 V AC) Three Phase 3 hp (220 ... 240 V AC) Three Phase 3 hp (240 V AC) Single Phase 2 hp (440 ... 480 V AC) Three Phase 7.5 hp (550 ... 600 V AC) Three Phase 10 hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 9 in-lb
Full Load Amps Motor Use	(120 V AC) Single Phase 13.8 A (200 ... 208 V AC) Three Phase 11 A (220 ... 240 V AC) Three Phase 9.6 A (240 V AC) Single Phase 12 A (440 ... 480 V AC) Three Phase 11 A (550 ... 600 V AC) Three Phase 11 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	7dff7713-7851-4487-97fd-6e32ead8426b Bulgaria
Simplified SCIP	0be1fc8b-73e4-42d2-8632-e15c9fc86987 Hungary 1ca0112f-9e7f-434b-99ed-67838ce71494 Norway 2f230651-72aa-4e62-b49a-ba59bc034e74 Poland 3986f466-54cd-4236-98d8-61c5a6db3d60 Germany 3df9f0b-9fb0-4075-bfac-729a9a80295b Germany 3e1ae2ca-2c7a-4036-a878-bc39f690b8a7 Germany 52434104-943b-4ea9-9ef7-0a5a7a465726 Spain 537d1bbb-b70f-4517-8eff-3e38df1bf55a Germany 549d89f8-ffd9-48ab-998b-ba79b996ffa9 France 5bfed6c7-8854-411f-8447-9c6d5c36db78 Belgium 6a510989-f28c-4032-9394-7e4352cb45aa Sweden 6bb5c2d5-2827-461f-a67d-481405a7c4dd Czech Republic 7972aa37-40b1-4b2f-bbe7-a308eb0635d4 France 83b45204-3ced-46b6-834b-c70a21861d56 Greece 94742c84-f160-412f-8066-51851d1b0981 Denmark 983d65ca-402f-40c5-9dfa-f40b667fcd49 Germany a8f9b68d-112b-40b7-98d9-2dbfd005c4fe Hungary af3df996-7214-4def-832f-4abe6de2730f Portugal b5a8446a-b109-438e-9437-52a7e95ea2b0 Belgium bd6a176a-91df-45a0-ac54-bb9ab29cec66 Croatia c93fee56-6c36-44ff-b59b-6067d563c78f Estonia cbbe5593-60a9-4a5e-99fa-f388b3d6beca Poland df2713b2-e2db-43cf-a48c-894331786c5b Netherlands e77a6631-1b46-4e02-ae50-376b43e82495 Italy ea809e9e-9ff5-48b4-8837-7d95c570e487 Finland ecb1f3c4-1811-4525-9787-547eb0e26608 Sweden f7b2f8f6-70d3-4ae5-bc9c-f32e2eff8d83 Poland
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	9AKK107492A7072
CCC Certificate	9AKK107492A7089
CCS Certificate	GZ23PTB00147
CQC Certificate	CQC2013010304646608
Declaration of Conformity - CCC	2020980304001066
Declaration of Conformity - CE	1SBD250011U1000
UL Certificate	UL_20140702-E312527-10-5

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	48 mm
Package Level 1 Depth / Length	78 mm
Package Level 1 Height	79 mm
Package Level 1 Gross Weight	0.34 kg
Package Level 1 EAN	3471522393807

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)	3707314

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 → AX12

