



 PRODUCT-DETAILS

AX18-30-10-80

AX18-30-10-80 220-230V50Hz/230-240V60Hz Contactor



General Information

Extended Product Type	AX18-30-10-80
Product ID	1SBL921074R8010
EAN	3471522395801
Catalog Description	AX18-30-10-80 220-230V50Hz/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	9AAC177926_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 $\Theta = 40^\circ\text{C}$ 28 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 25 A (690 V) 40 °C 27 A (690 V) 70 °C 20 A
Rated Operational Current AC-3 (I_e)	(415 V) 55 °C 18 A (440 V) 55 °C 12 A (500 V) 55 °C 12 A (690 V) 55 °C 9 A (380 / 400 V) 55 °C 18 A (220 / 230 / 240 V) 55 °C 18 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) 9 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW (380 / 400 V) 7.5 kW (220 / 230 / 240 V) 4 kW
Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 145 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 28 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A

	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 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 1 W at Rated Operating Conditions AC-3 per Pole 0.2 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) 30 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 1 hp (200 ... 208 V AC) Three Phase 5 hp (220 ... 240 V AC) Three Phase 5 hp (240 V AC) Single Phase 3 hp (440 ... 480 V AC) Three Phase 10 hp (550 ... 600 V AC) Three Phase 15 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 16 A (200 ... 208 V AC) Three Phase 17.5 A (220 ... 240 V AC) Three Phase 15.2 A (240 V AC) Single Phase 17 A (440 ... 480 V AC) Three Phase 14 A (550 ... 600 V AC) Three Phase 17 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	04263894-a884-47f8-9d57-8150565d112c Bulgaria
Simplified SCIP	01731298-b2d8-4702-bbcf-ae2a0e2c0da1 France 0d28b4d9-175f-408c-9f16-e95422cc70f0 Germany 18cee740-e770-4b8c-8a25-cd0109d52cb0 Sweden 26fc22df-7bb0-4098-9ce4-f0484ad383ad Hungary 34eed3a9-3813-4fed-adc2-fd88a02f172a Netherlands 362c0450-9691-4080-8d08-1edd46644212 Portugal 3d31ece8-f7cb-40fd-b1f3-6f368379251c Sweden 3e60a83b-4a3c-465d-9ba9-0957bdfd100d Poland 4c43fd63-7777-4553-ba19-57628859425d Croatia 58552496-0908-4e19-a881-d85135d5ae19 Greece 6f2b09d4-d7ef-4e3a-bad9-11c90f1a4798 Czech Republic 7585c89d-583d-469a-a747-4fd0e54e9d7e Germany 7d91453d-3f33-4831-b601-63397de2a8c2 Finland 7e180c97-6396-4df8-a59d-6c4d23df92bd Denmark 7ff1909c-8c58-4f05-a0a8-b2da85fe0a1e Spain 9ffabfb4-a88a-43ac-a46f-70f60e387aa2 Italy a666e81d-f5da-401e-abe5-4c6a9d8f49d2 Hungary a8177241-f617-4436-9e09-184e43dc0bb1 Belgium bc7edf4f-db1a-4315-8da6-6df026f56d8a France cf4fc4e7-4315-4bf4-96e1-7aa69551e00b Estonia d33352b8-116e-4532-ac29-d7f1f208fadd Belgium d82eccab-f5c9-4989-a810-58757e528715 Norway dc1c2737-6317-4648-95c1-709167981fab Poland e36ad6ad-2f2b-4b02-a25f-06664946a6d3 Germany ebf58b52-c49c-4f48-a3c1-f34a27aafd02 Germany f112d6cf-9316-45a8-a54f-9df708358fd9 Poland f8c0f8f2-42ac-4178-8195-0e53de400863 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	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	3471522395801

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)	3707326

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 → AX18

