



 PRODUCT-DETAILS

AX80-30-11-84

AX80-30-11-84 110V50Hz/110-120V60Hz Contactor



General Information

Extended Product Type	AX80-30-11-84
Product ID	1SBL411074R8411
EAN	3471522408846
Catalog Description	AX80-30-11-84 110V50Hz/110-120V60Hz Contactor
Long Description	AX50...AX80 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 – control circuit: AC operated – add-on auxiliary contact blocks (optional) for side mounting and a wide range of accessories.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

EPLAN Data	9AAC177932_EPLAN
Data Sheet, Technical	1SBC100187L0203

Information

Instructions and Manuals	9AKK107492A7059
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	82 mm
Product Net Depth / Length	110 mm
Product Net Height	108 mm
Product Net Weight	1.05 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	1
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 $\Theta = 40\text{ }^{\circ}\text{C}$ 125 A
Rated Operational Current AC-1 (I _e)	(220 / 240 V) 55 °C 105 A (690 V) 40 °C 125 A (690 V) 70 °C 85 A
Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 80 A (440 V) 55 °C 70 A (500 V) 55 °C 65 A (690 V) 55 °C 46 A (380 / 400 V) 55 °C 80 A (220 / 230 / 240 V) 55 °C 80 A
Rated Operational Power AC-3 (P _e)	(415 V) 40 kW (440 V) 40 kW (500 V) 45 kW (690 V) 40 kW (380 / 400 V) 37 kW (220 / 230 / 240 V) 22 kW
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 135 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 630 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-3) 600 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour

Rated Control Circuit Voltage (U _c)	50 Hz 110 V 60 Hz 110 ... 120 V
Power Loss	at Rated Operating Conditions AC-1 per Pole 7 W at Rated Operating Conditions AC-3 per Pole 2 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 7 ... 22 ms Between Coil Energization and NO Contact Closing 8 ... 27 ms
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Tightening Torque	Control Circuit 1 N·m Main Circuit 4 N·m
Terminal Type	Screw Terminals
Product Name	Block Contactor

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 105 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 7-1/2 hp (200 ... 208 V AC) Three Phase 25 hp (220 ... 240 V AC) Three Phase 30 hp (240 V AC) Single Phase 15 hp (440 ... 480 V AC) Three Phase 60 hp (550 ... 600 V AC) Three Phase 75 hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 35 in·lb
Full Load Amps Motor Use	(120 V AC) Single Phase 80 A (200 ... 208 V AC) Three Phase 78.2 A (220 ... 240 V AC) Three Phase 80 A (240 V AC) Single Phase 68 A (440 ... 480 V AC) Three Phase 77 A (550 ... 600 V AC) Three Phase 77 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
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	9AKK107492A7074
CCC Certificate	9AKK107492A7091
CCS Certificate	GZ23PTB00147
CQC Certificate	CQC2013010304646607
Declaration of Conformity - CCC	2020980304001064
Declaration of Conformity - CE	1SBD250011U1000
UL Certificate	UL_20140702-E312527-10-7

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	102 mm
Package Level 1 Depth / Length	143 mm
Package Level 1 Height	152 mm
Package Level 1 Gross Weight	1.16 kg
Package Level 1 EAN	3471522408846

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

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AX Contactors → AX80

