



PRODUCT-DETAILS

AX80-30-11-88
AX80-30-11-88 230-240V50Hz/240V-
260V60Hz Contactor



General Information	
Extended Product Type:	AX80-30-11-88
Product ID:	1SBL411074R8811
EAN:	3471522408884
Catalog Description:	AX80-30-11-88 230-240V50Hz/240V-260V60Hz 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.
Display Name:	AX80-30-11-88

Ordering	
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

EPLAN Data:	9AAC177932_EPLAN
Data Sheet, Technical Information:	1SBC100187L0203
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
Number of Poles:	3P
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 $\Theta = 40\text{ °C}$ 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 230 ... 240 V
60 Hz 240 ... 260 V

Coil Consumption: Average Holding Value 50 / 60 Hz 18 V-A
Average Holding Value 50 Hz 18 V-A
Average Holding Value 60 Hz 18 V-A
Average Holding Value, from Warm State 5.5 W
Average Pull-in Value 50 Hz 180 V-A
Average Pull-in Value 60 Hz 210 V-A

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:	3471522408884

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

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

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

