

PRODUCT-DETAILS

# AX80-30-11-83

## AX80-30-11-83 48V 50/60Hz Contactor



### General Information

Extended Product Type	AX80-30-11-83
Product ID	1SBL411074R8311
EAN	3471522408839
Catalog Description	AX80-30-11-83 48V 50/60Hz 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.

### Classifications

Object Classification Code	Q
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
UNSPSC	39121529

### Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	102 mm
Package Level 1 Depth /	143 mm

## Length

Package Level 1 Height	152 mm
Package Level 1 Gross Weight	1.16 kg
Package Level 1 EAN	3471522408839
Package Level 2 Units	10 piece
Package Level 2 Width	240 mm
Package Level 2 Depth / Length	295 mm
Package Level 2 Height	145 mm
Package Level 2 Gross Weight	11.6 kg

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**Certificates and Declarations (Document Number)**

CB Certificate	9AKK107492A7074
CCC Certificate	9AKK107492A7091
CCS Certificate	9AKK107492A7096
Declaration of Conformity - CE	1SBD250011U1000
Instructions and Manuals	9AKK107492A7059
RoHS Information	1SBD251301E1000

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**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 (240 V AC) Single Phase 15 Hp (200 ... 208 V AC) Three Phase 25 Hp (220 ... 240 V AC) Three Phase 30 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

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**Environmental**

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C Close to Contactor without Thermal O/L Relay -40 ... +70 °C Near Contactor for Operation in Free Air -40 ... +70 °C
Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	3000 m
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

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**Technical**

Number of Main Contacts NO	3
Number of Main Contacts	0

NC

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 $q = 40$ °C 125 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 40 °C 125 A (690 V) 70 °C 85 A (220 / 240 V) 55 °C 105 A
Rated Operational Current AC-3 ( $I_e$ )	(220 / 230 / 240 V) 55 °C 80 A (380 / 400 V) 55 °C 80 A (415 V) 55 °C 80 A (440 V) 55 °C 70 A (500 V) 55 °C 65 A (690 V) 55 °C 46 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 22 kW (380 / 400 V) 37 kW (415 V) 40 kW (440 V) 40 kW (500 V) 45 kW (690 V) 40 kW
Rated Short-time Withstand Current ( $I_{cw}$ )	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 for 1 s -empty- 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
Maximum Electrical Switching Frequency	AC-1 600 cycles per hour AC-3 600 cycles per hour
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 48 V 60 Hz 48 V
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
Terminal Type	Screw Terminals

## Dimensions

Product Net Width	82 mm
Product Net Depth / Length	110 mm
Product Net Height	108 mm

Product Net Weight	1.05 kg
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## Popular Downloads

Data Sheet, Technical Information	No
Instructions and Manuals	9AKK107492A7059

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## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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## Categories

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

