

PRODUCT-DETAILS

AX50-30-11-81

AX50-30-11-81 24V 50/60Hz Contactor



General Information	
Extended Product Type	AX50-30-11-81
Product ID	1SBL351074R8111
EAN	3471522404817
Catalog Description	AX50-30-11-81 24V 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.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads	
Instructions and Manuals	9AKK107492A7059
CAD Dimensional	2CDC001079B0201

Drawing

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 $\Theta = 40\text{ }^{\circ}\text{C}$ 100 A
Rated Operational Current AC-1 (I_e)	(220 / 240 V) 55 $^{\circ}\text{C}$ 85 A (690 V) 40 $^{\circ}\text{C}$ 100 A (690 V) 70 $^{\circ}\text{C}$ 70 A
Rated Operational Current AC-3 (I_e)	(415 V) 55 $^{\circ}\text{C}$ 50 A (440 V) 55 $^{\circ}\text{C}$ 45 A (500 V) 55 $^{\circ}\text{C}$ 45 A (690 V) 55 $^{\circ}\text{C}$ 35 A (380 / 400 V) 55 $^{\circ}\text{C}$ 50 A (220 / 230 / 240 V) 55 $^{\circ}\text{C}$ 53 A
Rated Operational Power AC-3 (P_e)	(415 V) 25 kW (440 V) 25 kW (500 V) 30 kW (690 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 kW
Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40 $^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 10 s 650 A at 40 $^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 $^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 $^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 $^{\circ}\text{C}$ 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 $I_e > 100\text{ A}$) at 440 V 1300 A $\cos\phi=0.45$ ($\cos\phi=0.35$ for $I_e > 100\text{ A}$) 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})	Auxiliary Circuit 6 kV

Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 24 V 60 Hz 24 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 IP10
Terminal Type	Screw Terminals

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 80 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 3 hp (200 ... 208 V AC) Three Phase 15 hp (220 ... 240 V AC) Three Phase 20 hp (240 V AC) Single Phase 10 hp (440 ... 480 V AC) Three Phase 40 hp (550 ... 600 V AC) Three Phase 50 hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 35 in-lb

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	acc. 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 Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CB Certificate	9AKK107492A7074
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CCC Certificate	9AKK107492A7091
CCS Certificate	9AKK107492A7096
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	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	3471522404817
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

Classifications

Object Classification Code	Q
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	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 → AX50

