

AX12-30-01-81



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

Extended Product Type:	AX12-30-01-81
Product ID:	1SBL911074R8101
EAN:	3471522394811
Catalog Description:	AX12-30-01-81 24V 50/60Hz 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.

Additional Information

ABB Industrial IT Suite:	Control IT
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
Block Contactor Type:	3-Pole Contactor
CB Certificate:	CB_CN_29456
CCC Certificate:	CCC_2013010304646608
Climatic Withstand:	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 26 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Country of Origin:	Bulgaria (BG)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	1SXF101004C2001
Declaration of Conformity - CE:	1SBD250011U1000
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
EAN:	3471522394811
Full Load Amps Motor Use:	(120 V AC) Single Phase 13.8 A (240 V AC) Single Phase 12 A (200 ... 208 V AC) Three Phase 11 A (220 ... 240 V AC) Three Phase 9.6 A (440 ... 480 V AC) Three Phase 11 A (550 ... 600 V AC) Three Phase 11 A
General Use Rating UL/CSA:	(600 V AC) 25 A
Horsepower Rating UL/CSA:	(120 V AC) Single Phase 3/4 Hp (240 V AC) Single Phase 2 Hp (200 ... 208 V AC) Three Phase 3 Hp (220 ... 240 V AC) Three Phase 3 Hp (440 ... 480 V AC) Three Phase 7.5 Hp (550 ... 600 V AC) Three Phase 10 Hp
IT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SBB902529D3001
Invoice Description:	AX12-30-01-81 24V 50/60Hz Contactor
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 90 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-15 1200 cycles per hour AC-2 1200 cycles per hour

AC-3 1200 cycles per hour
DC-13 900 cycles per hour

Maximum Mechanical Switching Frequency:	3600 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Minimum Order Quantity:	1 piece
Mounting Position:	Max. N.O. or N.C. built-in and add-on N.O. or N.C. auxiliary contacts: see accessory fitting details for 3-pole contactor AX09 ... AX40
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	0
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Object Classification Code:	Q
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
Order Multiple:	1 piece
Package Level 1 EAN:	3471522394811
Package Level 1 Gross Weight:	0.34 kg
Package Level 1 Height:	79 mm
Package Level 1 Length:	78 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	48 mm
Package Level 2 Height:	145 mm
Package Level 2 Length:	295 mm
Package Level 2 Units:	30 piece
Package Level 2 Width:	240 mm
Power Loss:	at Rated Operating Conditions AC-1 per Pole 0.8 W at Rated Operating Conditions AC-3 per Pole 0.1 W
Product Main Type:	AX12
Product Name:	Block Contactor
Product Net Depth:	74 mm
Product Net Height:	74 mm
Product Net Weight:	0.326 kg
Product Net Width:	44 mm
Product Packing Type:	Box
Rated Control Circuit Voltage (U_c):	50 Hz 24 V 60 Hz 24 V
Rated Frequency (f):	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	6 kV
Rated Insulation Voltage (U_i):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Rated Operational Current AC-1 (I_e):	(690 V) 40 °C 25 A (690 V) 70 °C 18 A (220 / 240 V) 55 °C 22 A
Rated Operational Current AC-15 (I_e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 2 A (500 V) 2 A (690 V) 2 A (380 / 440 V) 3 A
Rated Operational Current AC-3 (I_e):	(220 / 230 / 240 V) 55 °C 12 A

	(380 / 400 V) 55 °C 12 A (415 V) 55 °C 12 A (440 V) 55 °C 9 A (500 V) 55 °C 9 A (690 V) 55 °C 7 A
Rated Operational Current DC-13 (I_e):	(110 V) 1.1 A / 121 W (125 V) 1.1 A / 138 W (220 V) 0.55 A / 121 W (24 V) 6 A / 144 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):	(220 / 230 / 240 V) 3 kW (380 / 400 V) 5.5 kW (415 V) 5.5 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW
Rated Operational Voltage:	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 120 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 26 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 280 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 70 A for 0.1 s 140 A for 1 s 100 A
RoHS Date:	20131103
RoHS Information:	1SBD251301E1000
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Selling Unit of Measure:	piece
Short Description:	AX12-30-01-81 24V 50/60Hz Contactor
Terminal Type:	Screw Terminals
Tightening Torque:	Auxiliary Circuit 1 N·m Control Circuit 1 N·m Main Circuit 1 N·m
Tightening Torque UL/CSA:	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 9 in·lb
UNSPSC:	39121529



