

# AX18-30-10-80



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

## General Information

<b>Extended Product Type:</b>	AX18-30-10-80
<b>Product ID:</b>	1SBL921074R8010
<b>EAN:</b>	3471522395801
<b>Catalog Description:</b>	AX18-30-10-80 220-230V50Hz/230-240V60Hz Contactor
<b>Long Description:</b>	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

<b>ABB Industrial IT Suite:</b>	Control IT
<b>Ambient Air Temperature:</b>	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
<b>Block Contactor Type:</b>	3-Pole Contactor
<b>CB Certificate:</b>	CB_CN_29456
<b>CCC Certificate:</b>	CCC_2013010304646608
<b>Climatic Withstand:</b>	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 28 A acc. to IEC 60947-5-1, q = 40 °C 16 A
<b>Country of Origin:</b>	Bulgaria (BG)
<b>Customs Tariff Number:</b>	85364900
<b>Data Sheet, Technical Information:</b>	1SXF101004C2001
<b>Declaration of Conformity - CE:</b>	1SBD250011U1000
<b>Degree of Protection:</b>	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
<b>EAN:</b>	3471522395801
<b>Full Load Amps Motor Use:</b>	(120 V AC) Single Phase 16 A (240 V AC) Single Phase 17 A (200 ... 208 V AC) Three Phase 17.5 A (220 ... 240 V AC) Three Phase 15.2 A (440 ... 480 V AC) Three Phase 14 A (550 ... 600 V AC) Three Phase 17 A
<b>General Use Rating UL/CSA:</b>	(600 V AC) 30 A
<b>Horsepower Rating UL/CSA:</b>	(120 V AC) Single Phase 1 Hp (240 V AC) Single Phase 3 Hp (200 ... 208 V AC) Three Phase 5 Hp (220 ... 240 V AC) Three Phase 5 Hp (440 ... 480 V AC) Three Phase 10 Hp (550 ... 600 V AC) Three Phase 15 Hp
<b>IT Publishing Status:</b>	Level 0 - Information enabled
<b>Industrial IT Certification Level:</b>	0
<b>Instructions and Manuals:</b>	1SBB902529D3001
<b>Invoice Description:</b>	AX18-30-10-80 220-230V50Hz/230-240V60Hz Contactor
<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 90 A
<b>Maximum Electrical Switching Frequency:</b>	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

<b>Maximum Mechanical Switching Frequency:</b>	3600 cycles per hour
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Minimum Order Quantity:</b>	1 piece
<b>Mounting Position:</b>	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
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	3
<b>Object Classification Code:</b>	Q
<b>Operate Time:</b>	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
<b>Order Multiple:</b>	1 piece
<b>Package Level 1 EAN:</b>	3471522395801
<b>Package Level 1 Gross Weight:</b>	0.34 kg
<b>Package Level 1 Height:</b>	79 mm
<b>Package Level 1 Length:</b>	78 mm
<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	48 mm
<b>Package Level 2 Height:</b>	145 mm
<b>Package Level 2 Length:</b>	295 mm
<b>Package Level 2 Units:</b>	30 piece
<b>Package Level 2 Width:</b>	240 mm
<b>Power Loss:</b>	at Rated Operating Conditions AC-1 per Pole 1 W at Rated Operating Conditions AC-3 per Pole 0.2 W
<b>Product Main Type:</b>	AX18
<b>Product Name:</b>	Block Contactor
<b>Product Net Depth:</b>	74 mm
<b>Product Net Height:</b>	74 mm
<b>Product Net Weight:</b>	0.326 kg
<b>Product Net Width:</b>	44 mm
<b>Product Packing Type:</b>	Box
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
<b>Rated Frequency (f):</b>	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(690 V) 40 °C 27 A (690 V) 70 °C 20 A (220 / 240 V) 55 °C 25 A
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(220 / 230 / 240 V) 55 °C 18 A

	(380 / 400 V) 55 °C 18 A (415 V) 55 °C 18 A (440 V) 55 °C 12 A (500 V) 55 °C 12 A (690 V) 55 °C 9 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(220 / 230 / 240 V) 4 kW (380 / 400 V) 7.5 kW (415 V) 9 kW (440 V) 5.5 kW (500 V) 7.5 kW (690 V) 7.5 kW
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 690 V Main Circuit 690 V
<b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 145 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 28 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 0.1 s 140 A for 1 s 100 A
<b>RoHS Date:</b>	20131103
<b>RoHS Information:</b>	1SBD251301E1000
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment
<b>Selling Unit of Measure:</b>	piece
<b>Short Description:</b>	AX18-30-10-80 220-230V50Hz/230-240V60Hz Contactor
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	Auxiliary Circuit 1 N·m Control Circuit 1 N·m Main Circuit 1 N·m
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 9 in·lb
<b>UNSPSC:</b>	39121529
<b>CCS Certificate:</b>	CCS_GZ13T00024



