



PRODUCT-DETAILS

AX50-30-00-80

AX50-30-00-80 220-230V50Hz/230-240V60Hz
Contactor



General Information	
Extended Product Type	AX50-30-00-80
Product ID	1SBL351074R8000
EAN	3471522403803
Catalog Description	AX50-30-00-80 220-230V50Hz/230-240V60Hz 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	
EPLAN Data	9AAC177930_EPLAN
Data Sheet, Technical	1SBC100187L0203

Information

Instructions and Manuals	9AKK107492A7059
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	70 mm
Product Net Depth / Length	110 mm
Product Net Height	108 mm
Product Net Weight	1.01 kg

Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
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 $\Theta = 40^\circ\text{C}$ 100 A
Rated Operational Current AC-1 (I_e)	(220 / 240 V) 55 °C 85 A (690 V) 40 °C 100 A (690 V) 70 °C 70 A
Rated Operational Current AC-3 (I_e)	(415 V) 55 °C 50 A (440 V) 55 °C 45 A (500 V) 55 °C 45 A (690 V) 55 °C 35 A (380 / 400 V) 55 °C 50 A (220 / 230 / 240 V) 55 °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 °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 110 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 $I_e > 100\text{ A}$) at 440 V 1300 A $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100\text{ A}$) at 690 V 630 A
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 220 ... 230 V 60 Hz 230 ... 240 V
Power Loss	at Rated Operating Conditions AC-1 per Pole 5 W at Rated Operating Conditions AC-3 per Pole 1.3 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) 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
Full Load Amps Motor Use	(120 V AC) Single Phase 34 A (200 ... 208 V AC) Three Phase 48.3 A (220 ... 240 V AC) Three Phase 54 A (240 V AC) Single Phase 50 A (440 ... 480 V AC) Three Phase 52 A (550 ... 600 V AC) Three Phase 52 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
Simplified SCIP	0a060834-034d-40e1-9167-8eb83393c94d France 1c2d7427-2b93-4227-af61-5456fbd7eef9 Denmark 1eb5cff9-a438-4660-a991-0024d0468676 Greece 3127946a-f587-41d1-b1c2-f368c37fdadc Poland 3bbe40f8-820f-48af-a0ed-9a6c8ad75bc6 Germany 3e8afc49-96ea-4d9a-a664-d40b49e943c1 Hungary 4b7b470b-a4be-447a-ab19-26faad4bd73a Belgium

71456489-563b-4439-9a1a-eeb2ae004fb5 Sweden	
85aa4b63-8f66-4742-a40f-01319a4a372d Croatia	
87840595-d49c-43cc-81fe-91c793c002b3 Norway	
97805e70-3645-402e-a986-0b9d206f5e4e France	
a8d4af2d-375a-47c7-b0d9-3e7bce0c5f9c Italy	
ab8edb45-62c2-487a-993c-22835728e13f Netherlands	
cd48be9b-60b8-4740-8fba-ba59dbdaa600 Czech Republic	
cdd9e0a2-667f-4973-acde-4cca632aad81 Poland	
ce06aa7c-c35d-444e-a806-155a123caeff Portugal	
d10c5023-45d4-444c-8458-a5a06e1a4f14 Spain	
f325f64a-a160-4603-a8cc-ddec6bbb695b Finland	
f37fdd47-e8fd-4309-83ee-4b2b6370382e Estonia	
2CMT2023-006525	
Toxic Substances Control Act - TSCA	
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
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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	1.12 kg
Package Level 1 EAN	3471522403803

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

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AX Contactors → AX50



Submitted by TECO Group