

PRODUCT-DETAILS

AFC09-40-00-80 AFC09-40-00-80 220-230V50Hz 230-240V60Hz Contactor



General Information	
Extended Product Type	AFC09-40-00-80
Product ID	1SBL131201R8000
EAN	3471523014022
Catalog Description	AFC09-40-00-80 220-230V50Hz 230-240V60Hz Contactor
Long Description	The AFC09-40-00-80 is a 4 poles (4 N.O) - 690 V IEC or 600V UL contactor with screw terminals, mainly controlling power circuits up to 4 kW / 400 V AC (AC-3) or 5 hp / 480 V AC UL and 25 A (AC-1) or 25 A UL general use. Within the AF platform, AFC contactors offer an optimized operating time for AC controlled applications with electromagnetic coil (control voltage : 220 230 V AC 50 Hz / 230 240 V AC 60 Hz). AFC contactors have a block type design and can be easily extended with add-on auxiliary contact blocks and a wide range of additionnal accessories

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads	
Instructions and Manuals	1SBC101059M6801

Dimensions	
Product Net Width	45 mn
Product Net Depth / Length	77 mn
Product Net Height	86 mm
Product Net Weight	0.298 kg
Technical	
Number of Main Contacts	
Number of Main Contacts NC	
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	
Standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N
Rated Operational Voltage	Main Circuit 690 \
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 35 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 25 (690 V) 60 °C 25 A (690 V) 70 °C 22
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 9 A (440 V) 60 °C 9 A (500 V) 60 °C 9.5 A (690 V) 60 °C 7 A (380 / 400 V) 60 °C 9 A (220 / 230 / 240 V) 60 °C 9 A
Rated Operational Power AC-3 (P _e)	(400 V) 4 kW (415 V) 4 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW (380 / 400 V) 4 kW (220 / 230 / 240 V) 2.2 kW
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 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 1 s -empty- A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hou (AC-15) 0 cycles per hou (AC-2 / AC-4) 0 cycles per hou (AC-3) 0 cycles per hou (DC-13) 0 cycles per hou
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp})	6 KV

CQC Certificate

- CCC

Declaration of Conformity

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Voltage (U_2) Operate Time Between Coil De-energization and NC Contact Closing 9, 20 ms Between Coil De-energization and NC Contact Opening 4, 18 ms Between Coil Energization and NC Contact Opening 7, 21 ms Between Coil Energization and NC Contact Closing 9 (26 ms Between Coil Energization and NC Contact Closing 9 (26 ms Connecting Capacity Main Circuit Flexible with Insulated Ferrule 1x 0, 75, 4 mm² Flexible with Insulated Ferrule 1x 0, 75, 4 mm² Flexible with Insulated Ferrule 1x 0, 75, 4 mm² Flexible with Insulated Ferrule 1x 0, 75, 25 mm² Rigid 1/2x 1, 6 mm² Connecting Capacity Flexible with Insulated Ferrule 1x 0, 75, 25 mm² Flexible with Insulated Ferrule 1x	Maximum Mechanical Switching Frequency	3600 cycles per hour
Between Coil De-energization and NO Contact Opening 418 ms Between Coil Energization and NO Contact Closing 172 ms Between Coil Energization and NO Contact Closing 172 ms Between Coil Energization and NO Contact Closing 1928 ms Connecting Capacity Main Circuit Flexible with Insulated Ferrule 12.0. 756 mm* Flexible with Insulated Ferrule 2.0. 75	Rated Control Circuit Voltage (U _c)	50 Hz 220 230 V 60 Hz 230 240 V
Flexible with Insulated Ferrule 1x 0.75 4 mm? Flexible with Insulated Ferrule 1x 0.75 2.5 mm? Rigid 1/2x 1 6 mm? Connecting Capacity Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm? Rigid 1/2x 1 6 mm? Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm? Connecting Capacity Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm? Flexible with Insulate	Operate Time	Between Coil De-energization and NC Contact Closing 9 20 ms Between Coil De-energization and NO Contact Opening 4 18 ms Between Coil Energization and NC Contact Opening 7 21 ms Between Coil Energization and NO Contact Closing 10 26 ms
Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Rigid 1/2x 1 2.5 mm² Rigi	Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 0.75 6 mm² Flexible with Insulated Ferrule 1x 0.75 4 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Rigid 1/2x 1 6 mm²
Control Circuit Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 15 mm² Rigid 1/2x 1 2.5 mm² Ri	Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ²
Main Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 Terminal Type Screw Terminals Technical UL/CSA General Use Rating UL/CSA Tightening Torque Control Circuit 11 IA Main Circuit 13 IA Environmental Ambient Air Temperature Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor for Storage -60 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Storage -60 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Storage -60 +70 °C Close to Contactor of Storage -60 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation in Free Air -40 +70 °C Close to Contactor of Operation	Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid 1/2x 1 2.5 mm²
Terminal Type Screw Terminals Technical UL/CSA General Use Rating UL/CSA Tightening Torque Control Circuit 11 IA Main Circuit 13 IA Environmental Ambient Air Temperature Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor without Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -25 +60 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -25 +60 °C Cl	Wire Stripping Length	Control Circuit 10 mm Main Circuit 10 mm
Technical UL/CSA General Use Rating UL/CSA Tightening Torque Control Circuit 11 IA Main Circuit 13 IA Environmental Ambient Air Temperature Close to Contactor Fitted with Thermal O/L Relay -25 +60 °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 Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor for Operation in Free Air -40 +70 °C Close to Contactor without Thermal O/L Relay -25 +80 °C Near Contactor for Operation in Free Air -40 +70 °C Close to Contactor without Thermal O/L Relay -25 +80 °C Near Contactor for Operation in Free Air -40 +70 °C Close to Contactor without Thermal O/L Relay -25 +80 °C Near Contactor for Operation in Free Air -40 +70 °C Close to Contactor without Thermal O/L Relay -25 +80 °C Near Contactor fitted with Thermal O/L Relay -25 +80 °C Near Contactor for Operation in Free Air -40 +70 °C Close to Contactor without Thermal O/L Relay -25 +80 °C Near Contactor for Operation in Free Air -40 +70 °C Close to Contactor fitted with Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80 °C Near Contactor without Thermal O/L Relay -25 +80	Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
General Use Rating UL/CSA Tightening Torque Control Circuit 11 IA UL/CSA Environmental Ambient Air Temperature Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor for Storage -60 +80 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 +70 °C Near Contactor for Operation in Free Air -40 +70 °C Climatic Withstand Category B according to IEC 60947-1 Annex Q Maximum Operating Altitude Permissible 3000 m Altitude Permissible 5 300 Hz 4 g closed position / 2 g open position acc. to IEC 60068-2-6 Resistance to Vibrations acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 5 K40 Shock Direction: B1 5 K40 Shock Direction: B1 5 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Certificates and Declarations (Document Number)	Terminal Type	Screw Terminals
Ambient Air Temperature Close to Contactor Fitted with Thermal O/L Relay -25 +60 °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 Category B according to IEC 60947-1 Annex Q Maximum Operating Altitude Permissible Resistance to Vibrations acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Certificates and Declarations (Document Number)	General Use Rating UL/CSA Tightening Torque UL/CSA	Control Circuit 11 IA
Ambient Air Temperature Close to Contactor Fitted with Thermal O/L Relay -25 +60 °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 Category B according to IEC 60947-1 Annex Q Maximum Operating Altitude Permissible Resistance to Vibrations acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Certificates and Declarations (Document Number)	Environmental	
Maximum Operating Altitude Permissible Resistance to Vibrations acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40 Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Certificates and Declarations (Document Number)	Ambient Air Temperature	Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor for Storage -60 +80 °C
Altitude Permissible Resistance to Vibrations acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 K40 to IEC 60068-2-27 Open, Shock Direction: B1 5 K40 Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Certificates and Declarations (Document Number)	Climatic Withstand	Category B according to IEC 60947-1 Annex Q
acc. to IEC 60068-2-6 Resistance to Shock acc. Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40 Shock Direction: B 30 K40 Shock Direction: B 2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Certificates and Declarations (Document Number)	Maximum Operating Altitude Permissible	3000 m
to IEC 60068-2-27 Open, Shock Direction: B1 5 K40 Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Certificates and Declarations (Document Number)	Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position
	Resistance to Shock acc. to IEC 60068-2-27	Open, Shock Direction: B1 5 K40 Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40
	Certificates and Declarations (Doc	ument Number)
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Instructions and Manuals	1SBC101059M6801
RoHS Information	1SBD251089E1000
UL Certificate	UL_20191021-E312527_7_1

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	79 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.298 kg
Package Level 1 EAN	3471523014022
Package Level 3 Units	1296 piece

Classifications	
Object Classification Code	Q
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

