

PRODUCT-DETAILS

## AFC09-40-00-88 AFC09-40-00-88 230-240V50Hz 240-260V60Hz Contactor



General Information	
Extended Product Type	AFC09-40-00-88
Product ID	1SBL131201R8800
EAN	3471523014060
Catalog Description	AFC09-40-00-88 230-240V50Hz 240-260V60Hz Contactor
Long Description	The AFC09-40-00-88 is a 4-pole (4 N.O) - 690 V IEC or 600 V UL contactor withScrew terminals, mainly controlling power circuits up to 25 A (IEC 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 : 230 240 V AC 50 Hz / 240 260 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.

1 piece
85364900

Popular Downloads		
Data Sheet, Technical Information		1SBC100219C0201
Instructions and Manuals		1SBC101027M6801
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CAD Dimensional Drawing	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	77 mm
Product Net Height	86 mm
Product Net Weight	0.303 kg
Technical	
Number of Main Contacts NO	4
Number of Main Contacts NC	C
Number of Auxiliary Contacts NO	C
Number of Auxiliary Contacts NC	0
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, CSA C22.2 No. 60947-1-13, CSA C22.2 No. 60947-4-1
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors $\Theta$ = 40 °C 35 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 25 A (690 V) 60 °C 25 A (690 V) 70 °C 22 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 Low Voltage (I <sub>cw</sub> )	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
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 hour (AC-15) 0 cycles per hour (AC-2 / AC-4) 0 cycles per hour (AC-3) 0 cycles per hour (DC-13) 0 cycles per hour
Rated Operational Current	(110 V) 1-Pole, 40 °C 10 A

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DC-1 (I<sub>e</sub>)

Rated Operational Current DC-3 ( $I_e$ )

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(110 V) 1-Pole, 60 °C 10 A
          (110 V) 1-Pole, 70 °C 10 A
(110 V) 2 Poles in Series, 40 °C 25 A
(110 V) 2 Poles in Series, 60 °C 25 A
(110 V) 2 Poles in Series, 70 °C 22 A
(110 V) 3 Poles in Series, 40 °C 25 A
(110 V) 3 Poles in Series, 60 °C 25 A
(110 V) 3 Poles in Series, 70 °C 22 A
(110 V) 4 Poles in Series, 40 °C 25 A
(110 V) 4 Poles in Series, 60 °C 25 A
(110 V) 4 Poles in Series, 70 °C 22 A
(220 V) 2 Poles in Series, 40 °C 10 A
(220 V) 2 Poles in Series, 60 °C 10 A
(220 V) 2 Poles in Series, 70 °C 10 A
(220 V) 3 Poles in Series, 40 °C 25 A
(220 V) 3 Poles in Series, 60 °C 25 A
(220 V) 3 Poles in Series, 70 °C 22 A
(220 V) 4 Poles in Series, 40 °C 25 A
(220 V) 4 Poles in Series, 60 °C 25 A
(220 V) 4 Poles in Series, 70 °C 22 A
(440 V) 4 Poles in Series, 40 °C 10 A
(440 V) 4 Poles in Series, 60 °C 10 A
(440 V) 4 Poles in Series, 70 °C 10 A
           (72 V) 1-Pole, 40 °C 25 A
           (72 V) 1-Pole, 60 °C 25 A
           (72 V) 1-Pole, 70 °C 22 A
 (72 V) 2 Poles in Series, 40 °C 25 A
 (72 V) 2 Poles in Series, 60 °C 25 A
 (72 V) 2 Poles in Series, 70 °C 22 A
 (72 V) 3 Poles in Series, 40 °C 25 A
 (72 V) 3 Poles in Series, 60 °C 25 A
 (72 V) 3 Poles in Series, 70 °C 22 A
 (72 V) 4 Poles in Series, 40 °C 25 A
 (72 V) 4 Poles in Series, 60 °C 25 A
 (72 V) 4 Poles in Series, 70 °C 22 A
           (110 V) 1-Pole, 40 °C 6 A
           (110 V) 1-Pole, 60 °C 6 A
           (110 V) 1-Pole, 70 °C 6 A
(110 V) 2 Poles in Series, 40 °C 25 A
(110 V) 2 Poles in Series, 60 °C 25 A
(110 V) 2 Poles in Series, 70 °C 22 A
(110 V) 3 Poles in Series, 40 °C 25 A
(110 V) 3 Poles in Series, 60 °C 25 A
(110 V) 3 Poles in Series, 70 °C 22 A
(110 V) 4 Poles in Series, 40 °C 25 A
(110 V) 4 Poles in Series, 60 °C 25 A
(110 V) 4 Poles in Series, 70 °C 22 A
 (220 V) 2 Poles in Series, 40 °C 6 A
 (220 V) 2 Poles in Series, 60 °C 6 A
 (220 V) 2 Poles in Series, 70 °C 6 A
(220 V) 3 Poles in Series, 40 °C 25 A
(220 V) 3 Poles in Series, 60 °C 25 A
(220 V) 3 Poles in Series, 70 °C 22 A
(220 V) 4 Poles in Series, 40 °C 25 A
(220 V) 4 Poles in Series, 60 °C 25 A
(220 V) 4 Poles in Series, 70 °C 22 A
 (440 V) 4 Poles in Series, 40 °C 6 A
 (440 V) 4 Poles in Series, 60 °C 6 A
 (440 V) 4 Poles in Series, 70 °C 6 A
           (72 V) 1-Pole, 40 °C 25 A
           (72 V) 1-Pole, 60 °C 25 A
           (72 V) 1-Pole, 70 °C 22 A
 (72 V) 2 Poles in Series, 40 °C 25 A
 (72 V) 2 Poles in Series, 60 °C 25 A
 (72 V) 2 Poles in Series, 70 °C 22 A
 (72 V) 3 Poles in Series, 40 °C 25 A
 (72 V) 3 Poles in Series, 60 °C 25 A
 (72 V) 3 Poles in Series, 70 °C 22 A
 (72 V) 4 Poles in Series, 40 °C 25 A
 (72 V) 4 Poles in Series, 60 °C 25 A
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	(72 V) 4 Poles in Series, 70 °C 22 A
Rated Operational Current DC-5 (I <sub>e</sub> )	(110 V) 1-Pole, 40 °C 4 A (110 V) 1-Pole, 60 °C 4 A (110 V) 1-Pole, 60 °C 4 A (110 V) 1-Pole, 70 °C 4 A (110 V) 2 Poles in Series, 40 °C 10 A (110 V) 2 Poles in Series, 60 °C 10 A (110 V) 3 Poles in Series, 70 °C 25 A (110 V) 3 Poles in Series, 60 °C 25 A (110 V) 3 Poles in Series, 60 °C 25 A (110 V) 3 Poles in Series, 60 °C 25 A (110 V) 4 Poles in Series, 60 °C 25 A (110 V) 4 Poles in Series, 60 °C 25 A (110 V) 4 Poles in Series, 60 °C 25 A (110 V) 4 Poles in Series, 60 °C 24 A (220 V) 2 Poles in Series, 60 °C 4 A (220 V) 2 Poles in Series, 60 °C 4 A (220 V) 2 Poles in Series, 60 °C 4 A (220 V) 3 Poles in Series, 60 °C 9 A (220 V) 3 Poles in Series, 60 °C 9 A (220 V) 4 Poles in Series, 60 °C 10 A (220 V) 4 Poles in Series, 70 °C 10 A (220 V) 4 Poles in Series, 70 °C 10 A (220 V) 4 Poles in Series, 60 °C 4 A (440 V) 4 Poles in Series, 60 °C 4 A (440 V) 4 Poles in Series, 60 °C 4 A (440 V) 4 Poles in Series, 60 °C 25 A (72 V) 1-Pole, 60 °C 9 A (72 V) 1-Pole, 60 °C 9 A (72 V) 1-Pole, 60 °C 9 A (72 V) 1-Pole, 70 °C 9 A (72 V) 1-Pole, 70 °C 9 A (72 V) 2 Poles in Series, 70 °C 25 A (72 V) 2 Poles in Series, 70 °C 25 A (72 V) 3 Poles in Series, 70 °C 25 A (72 V) 3 Poles in Series, 70 °C 25 A (72 V) 3 Poles in Series, 70 °C 25 A (72 V) 3 Poles in Series, 70 °C 25 A (72 V) 3 Poles in Series, 70 °C 22 A (72 V) 4 Poles in Series, 70 °C 25 A (72 V) 3 Poles in Series, 70 °C 25 A (72 V) 4 Poles in Series, 70 °C 25 A (72 V) 4 Poles in Series, 70 °C 25 A (72 V) 4 Poles in Series, 70 °C 25 A (72 V) 4 Poles in Series, 70 °C 25 A (72 V) 4 Poles in Series, 70 °C 25 A (72 V) 4 Poles in Series, 70 °C 25 A (72 V) 4 Poles in Series, 70 °C 25 A
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 230 240 V 60 Hz 240 260 V
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
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
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 Solid 1/2x 1 4 mm² Rigid Stranded 1/2x 1 6 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Stranded 1/2x 1 2.5 mm²
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5 mm²

Control Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Stranded 1/2x 1 2.5 mm²
Wire Stripping Length	Control Circuit 10 mm Main Circuit 10 mm
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 IP20
Terminal Type	Screw Terminals

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 25 A
Connecting Capacity Main	Rigid Solid 1/2x 16-10 AWG
Circuit UL/CSA	Rigid Stranded 1/2x 16-10 AWG
Connecting Capacity	Rigid Solid 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA	Rigid Stranded 1/2x 18-14 AWG
Connecting Capacity	Rigid Solid 1/2x 18-14 AWG
Control Circuit UL/CSA	Rigid Stranded 1/2x 18-14 AWG
Tightening Torque	Control Circuit 11 in·lb
UL/CSA	Main Circuit 13 in·lb

Environmental	
Ambient Air Temperature	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 (0.85 1.1 Uc) -40 +60 °C Near Contactor for Operation in Free Air (Uc) -40 70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position
Resistance to Shock acc.	Closed, Shock Direction: B1 25 g
to IEC 60068-2-27	Open, Shock Direction: B1 5 g
	Shock Direction: A 30 g
	Shock Direction: B2 15 g
	Shock Direction: C1 25 g
	Shock Direction: C2 25 g

Certificates and Declarations	
BV Certificate	BV_2634H24898C0
CB Certificate	CB_SE-108891
CQC Certificate	CQC2010010304445624
Declaration of Conformity - CCC	2020980304001253
Declaration of Conformity - CE	1SBD250025U1000
Declaration of Conformity - UKCA	1SBD250046U1000

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	0.303 kg
Package Level 1 EAN	3471523014060
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
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  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  Block Contactors

