

PRODUCT-DETAILS

# AFC38-22-00-80

## AFC38-22-00-80 220-230V50Hz 230-240V60Hz

### Contactors



#### General Information

Extended Product Type	AFC38-22-00-80
Product ID	1SBL291501R8000
EAN	3471523015159
Catalog Description	AFC38-22-00-80 220-230V50Hz 230-240V60Hz Contactor
Long Description	The AFC38-22-00-80 is a 4 poles (2 N.O + 2 N.C) - 690 V IEC or 600V UL contactor with screw terminals, mainly controlling power circuits up to 18.5 kW / 400 V AC (AC-3) or 25 hp / 480 V AC UL and 50 A (AC-1) or 45 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 additional accessories.

#### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

#### Popular Downloads

Data Sheet, Technical Information	1SBC100219C0201
Instructions and Manuals	1SBC101059M6801

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## Dimensions

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Product Net Width	45 mm
Product Net Depth / Length	101 mm
Product Net Height	86 mm
Product Net Weight	0.393 kg

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## Technical

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Number of Main Contacts NO	2
Number of Main Contacts NC	2
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N° 14
Rated Operational Voltage	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 $q = 40$ °C 55 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 40 °C 55 A (690 V) 60 °C 45 A (690 V) 70 °C 37 A
Rated Operational Current AC-3 ( $I_e$ )	(415 V) 60 °C 21.2 A (440 V) 60 °C 20 A (500 V) 60 °C 17.6 A (690 V) 60 °C 10.5 A (380 / 400 V) 60 °C 22 A (220 / 230 / 240 V) 60 °C 23.2 A
Rated Operational Power AC-3 ( $P_e$ )	(400 V) 11 kW (415 V) 11 kW (440 V) 11 kW (500 V) 11 kW (690 V) 9 kW (220 / 230 / 240 V) 5.5 kW
Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 450 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 1 s -empty- 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 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
Maximum Mechanical	3600 cycles per hour

Switching Frequency	
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 220 ... 230 V 60 Hz 230 ... 240 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
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 1.5 ... 16 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1.5 ... 16 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.5 ... 16 mm <sup>2</sup> Rigid 1/2x 1.5 ... 16 mm <sup>2</sup>
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 1 ... 2.5 mm <sup>2</sup>
Wire Stripping Length	Control Circuit 10 mm Main Circuit 12 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

General Use Rating UL/CSA	(600 V AC) 55 A
Tightening Torque UL/CSA	Control Circuit 11 in-lb Main Circuit 22 in-lb

## Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air (0.85 ... 1.1 U <sub>c</sub> ) -40 ... 60 °C Near Contactor for Operation in Free Air (U <sub>c</sub> ) -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. to IEC 60068-2-27	Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g

## Certificates and Declarations (Document Number)

CB Certificate	CB_SE-96553M1
CQC Certificate	CQC2010010304445623
Declaration of Conformity - CCC	2020980304001254
Declaration of Conformity - CE	1SBD250025U1000
Instructions and Manuals	1SBC101059M6801
RoHS Information	1SBD251089E1000
UL Certificate	UL_20191021-E312527_7_1

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## Container Information

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Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	103 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.393 kg
Package Level 1 EAN	3471523015159
Package Level 3 Units	864 piece

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## Classifications

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

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## Categories

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

