# AFS38Z-30-22-30



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

**General Information** 

 Extended Product Type:
 AFS38Z-30-22-30

 Product ID:
 1SBL296082R3022

 EAN:
 3471523158696

Catalog Description: AFS38Z-30-22-30 24VDC Contactor

Long Description: AFS09Z ... AFS38Z contactors are designed for machine safety application

s. They are delivered with fixed front-mounted auxiliary contact blocks making them ideal for monitoring and controlling circuits. Mechanically linked a nd mirror contacts make your system safer. - control circuit with electronic coil interface: - dedicated 24 V DC for direct control by PLC-output ≥ 250 m A, low holding consumption up to 1.7 W - reduced panel energy consumption - mirror and mechanically linked contacts, with front marked symbol ac c. to IEC60947-5-1, always guaranteeing the right contactor status - front-mounted auxiliary contact block: - permanently fixed - protective cover to p revent manual operation - yellow housing for easy identification - minimum switching capacity 12 V / 3 mA, with a failure rate 10-7 acc. to IEC 60947-5

-4 - built-in surge suppression

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Instructions and Manuals: 1SBC101052M6801

**Dimensions** 

Product Net Width: 45 mm

Product Net Depth / Length: 139.5 mm

Product Net Height: 86 mm

**Technical** 

Number of Main Contacts NO: 3

Number of Main Contacts NC: 0

Number of Auxiliary Contacts NO: 2

Number of Auxiliary Contacts NC: 2

**Standards**: IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2

N°14

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 <sub>th</sub> ):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 50 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I <sub>e</sub> ):	(690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A
Rated Operational Current AC-3 (I <sub>e</sub> ):	(220 / 230 / 240 V) 60 °C 40 A (380 / 400 V) 60 °C 38 A (415 V) 60 °C 38 A (440 V) 60 °C 38 A (500 V) 60 °C 33 A (690 V) 60 °C 24 A
Rated Operational Power AC-3 (P <sub>e</sub> ):	(220 / 230 / 240 V) 11 kW (380 / 400 V) 18.5 kW (400 V) 18.5 kW (415 V) 18.5 kW (440 V) 22 kW (500 V) 22 kW (690 V) 22 kW
Rated Operational Current AC-15 (I <sub>e</sub> ):	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Rated Short-time Withstand Current (I <sub>cw</sub> ):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 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 700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 200 A
Maximum Electrical Switching Frequency:	AC-1 600 cycles per hour AC-15 1200 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour DC-13 900 cycles per hour

Rated Operational Current DC-13 (I <sub>e</sub> ):	(110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W (125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W
Rated Insulation Voltage (U <sub>i</sub> ):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 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 - 60 Hz - DC Operation 24 V
Operate Time:	Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil De-energization and NO Contact Opening 17 29 ms Between Coil Energization and NC Contact Opening 20 35 ms Between Coil Energization and NO Contact Closing 27 53 ms
Connecting Capacity Main Circuit:	Flexible with Insulated Ferrule 1x 1.5 10 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.5 4 mm <sup>2</sup> Flexible with Ferrule 1/2x 1.5 10 mm <sup>2</sup> Rigid 1/2x 2.5 10 mm <sup>2</sup>
Connecting Capacity Auxiliary 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>
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:	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 14 mm
Degree of Protection:	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
Terminal Type:	Screw Terminals

Ambient Air Temperature:	Close to Contactor for Storage -60 +80 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C
Climatic Withstand:	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible:	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	Closed, Shock Direction: A 30 g
60068-2-27:	Closed, Shock Direction: B1 25 g
	Closed, Shock Direction: B2 15 g
	Closed, Shock Direction: C1 25 g
	Closed, Shock Direction: C2 25 g

## Technical UL/CSA

General Use Rating UL/CSA:	(600 V AC) 50 A
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Tightening Torque UL/CSA: Auxiliary Circuit 11 in·lb

Control Circuit 11 in·lb Main Circuit 22 in·lb

# Certificates and Declarations (Document Number)

CB Certificate:	CB_SE-80872M3
cUL Certificate:	UL_20180227_E312527_7_1
Declaration of Conformity - CE:	1SBD250022U1000
Instructions and Manuals:	1SBC101052M6801
UL Listing Card:	E312527

#### **Container Information**

Package Level 1 Units:	1 piece
Package Level 1 Width:	96 mm
Package Level 1 Depth / Length:	145 mm
Package Level 1 Height:	50 mm
Package Level 1 Gross Weight:	0.591 kg
Package Level 1 EAN:	3471523158696
Package Level 2 Units:	12 piece
Package Level 2 Width:	51 mm
Package Level 2 Depth / Length:	98 mm
Package Level 2 Height:	148 mm
Package Level 2 Gross Weight:	7.092 kg
Package Level 3 Units:	576 piece

### Classifications

Object Classification Code:	Q
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
ETIM 7:	EC000066 - Power contactor, AC switching

