

PRODUCT-DETAILS

AFS16Z-30-22-30 AFS16Z-30-22-30 24VDC Contactor



General Information	
Extended Product Type	AFS16Z-30-22-30
Product ID	1SBL176082R3022
EAN	3471523158399
Catalog Description	AFS16Z-30-22-30 24VDC Contactor
Long Description	AFS09Z AFS38Z contactors are designed for machine safety applications. They are delivered with fixed front-mounted auxiliary contact blocks making them ideal for monitoring and controlling circuits. Mechanically linked and mirror contacts make your system safer control circuit with electronic coil interface: - dedicated 24 V DC for direct control by PLC-output ≥ 250 mA, low holding consumption up to 1.7 W - reduced panel energy consumption - mirror and mechanically linked contacts, with front marked symbol acc. to IEC60947-5-1, always guaranteeing the right contactor status - front-mounted auxiliary contact block: - permanently fixed - protective cover to prevent 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

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
E-Number (Sweden)	3210679

Container Information	
Package Level 1 Units	box 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	0.54 kg
Package Level 1 EAN	3471523158399
Package Level 2 Units	crate 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	6.48 kg
Package Level 3 Units	576 piece

Certificates and Declarations	(Document Number)
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CB Certificate	CB_SE-80871M3
cUL Certificate	UL_20180227_E312527_7_1
Declaration of Conformity - CE	1SBD250022U1000
DNV Certificate	DNV-GL_TAE00001AF-3
DNV GL Certificate	DNV-GL_TAE00001AF-3
EAC Certificate	EAC_RUC-FRME77B03199
GL Certificate	DNV-GL_TAE00001AF-3
Instructions and Manuals	1SBC101052M6801
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802705280
RoHS Information	1SBD250022U1000
UL Listing Card	E312527

General Use Rating UL/CSA	(600 V AC) 30 A
Tightening Torque	Auxiliary Circuit 11 IA
UL/CSA	Control Circuit 11 IA
	Main Circuit 13 IA

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Close to Contactor without Thermal O/L Relay -40 +70 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C

Category B according to IEC 60947-1 Annex Q

Climatic Withstand

Maximum Electrical

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.	Closed, Shock Direction: A 30 K40
to IEC 60068-2-27	Closed, Shock Direction: B1 25 K40
	Closed, Shock Direction: B2 15 K40
	Closed, Shock Direction: C1 25 K40
	Closed, Shock Direction: C2 25 K40
RoHS Status	Following EU Directive 2011/65/EU

Technical	
Number of Main Contacts NO	
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 14
Rated Operational Voltage	Auxiliary Circuit 690 \ Main Circuit 690 \
Rated Frequency (f)	Auxiliary Circuit 50 / 60 H: Main Circuit 50 / 60 H:
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, q = 40 °C 16 / acc. to IEC 60947-4-1, Open Contactors q = 40 °C 35 /
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 30 A (690 V) 60 °C 30 A (690 V) 70 °C 26 A
Rated Operational Current AC-3 (I _e)	(220 / 230 / 240 V) 60 °C 18 / (380 / 400 V) 60 °C 18 / (415 V) 60 °C 18 / (440 V) 60 °C 18 / (500 V) 60 °C 15 / (690 V) 60 °C 10.5 /
Rated Operational Power AC-3 (P _e)	(220 / 230 / 240 V) 4 KW (380 / 400 V) 7.5 KW (415 V) 9 KW (440 V) 9 KW (500 V) 9 KW (690 V) 9 KW (400 V) 7.5 KW
Rated Operational Current AC-15 (I _e)	(220 / 240 V) 4 / (24 / 127 V) 6 / (500 V) 2 / (690 V) 2 / (400 / 440 V) 3 /
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 for 0.1 s 140 for 1 s 100
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 / cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 /

AC-1 600 cycles per hour

	AC-15 1200 cycles per hour DC-13 900 cycles per hour
Rated Operational Current	(125 V) 0.55 A / 69 W
DC-13 (I _e)	(24 V) 6 A / 144 W
6	(250 V) 0.27 A / 68 W
	(48 V) 2.8 A / 134 W (72 V) 1 A / 72 W
	(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
Rated Insulation Voltage U _i)	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand /oltage (U _{imp})	6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit	50 Hz -
/oltage (U _c)	50 Hz / 60 Hz 100 250 V
	60 Hz - DC Operation 24 V
Operate Time	Between Coil De-energization and NC Contact Closing 22 57 ms
sperate nine	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 NC Contact Opening 27 53 ms
Connecting Capacity Main	Rigid 1/2x 1 6 m ²
Circuit	Flexible with Ferrule 1/2x 0.75 6 m ² Flexible with Insulated Ferrule 1x 0.75 4 m ² Flexible with Insulated Ferrule 2x 0.75 2.5 m ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 Flexible with Insulated Ferrule 2x 0.75 1.5
	Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 m ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 m ² Flexible with Insulated Ferrule 1x 0.75 2.5 m ²
	Flexible with Insulated Ferrule 2x 0.75 1.5 m ² Rigid 1/2x 1 2.5 m ²
Wire Stripping Length	Auxiliary Circuit 10 mm
	Control Circuit 10 mm Main Circuit 10 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
Ferminal Type	Screw Terminals
	Sulew reminds
Dimensions	
Product Net Width	45 mm
Product Net Depth / .ength	130.5 mm
Product Net Height	86 mm
Product Net Weight	0.49 kg

1SBC101052M6801

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

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

