

PRODUCT-DETAILS

## AFS38-30-22-13

## AFS38-30-22-13 100-250V50/60HZ-DC Contactor



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Extended Product Type	AFS38-30-22-13
Product ID	1SBL297082R1322
EAN	3471523157538
Catalog Description	AFS38-30-22-13 100-250V50/60HZ-DC Contactor

Long Description

AFS09 ... AFS38 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: - 24...60 V AC, 20...60 V DC and 100...250 V AC / DC operated accepting a wide control voltage range 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 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 ENumber (Sweden)

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	121 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.36 kg
Package Level 1 EAN	3471523157538
Package Level 2 Units	box 18 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	12.96 kg
Package Level 3 Units	864 piece

Certificates and Declarations (Document Number)	
CB Certificate	CB_SE-80872M3
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

Technical UL/CSA	
General Use Rating UL/CSA	(600 V AC) 50 A
Horsepower Rating	(220 240 V AC) Three Phase 10 hp
UL/CSA	(440 480 V AC) Three Phase 25 hp
	(550 600 V AC) Three Phase 30 hp
	(120 V AC) Single Phase 2 hp
	(200 208 V AC) Three Phase 10 hp
	(240 V AC) Single Phase 5 hp
Tightening Torque	Auxiliary Circuit 11 IA
UL/CSA	Control Circuit 11 IA
	Main Circuit 22 IA

Environmental	
Ambient Air	Close to Contactor for Storage -60 +80 °C
Temperature	Close to Contactor without Thermal O/L Relay -40 +70 °C
	Close to Contactor Fitted with Thermal O/L Relay -25 +60 $^{\circ}$ C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating	3000 m
Altitude Permissible	
Resistance to Vibrations	5 300 Hz 4 g closed position / 2 g open position
acc. to IEC 60068-2-6	

Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: A 30 K40 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	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 $N^\circ$
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 60947-5-1, q = 40 °C 16 A acc. to IEC 60947-4-1, Open Contactors q = 40 °C 50 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 KWT (380 / 400 V) 18.5 KWT (415 V) 18.5 KWT (440 V) 22 KWT (500 V) 22 KWT (690 V) 22 KWT
Rated Operational Current AC-15 (I <sub>e</sub> )	(220 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 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-2 / AC-4 150 cycles per hour AC-3 1200 cycles per hour AC-15 1200 cycles per hour DC-13 900 cycles per hour
Rated Operational Current DC-13 (I <sub>e</sub> )	(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 (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W

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	(500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Rated Insulation Voltage	acc. to UL/CSA 600 V
(U <sub>i</sub> )	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	50 Hz 100 250 V
Voltage (U <sub>c</sub> )	50 Hz / 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
Operate Time	Between Coil De-energization and NC Contact Closing 13 98 ms
Operate Time	Between Coil De-energization and NC Contact Closing 13 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NC Contact Opening 40 95 ms
Connecting Capacity	Rigid 1/2x 2.5 10 m <sup>2</sup>
Main Circuit	Flexible with Ferrule $1/2x$ $1.5$ $10$ m² Flexible with Insulated Ferrule $1x$ $1.5$ $10$ m² Flexible with Insulated Ferrule $2x$ $1.5$ $4$ m²
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5
Auxiliary Circuit	Flexible with Insulated Ferrule 2x 0.75 1.5 Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 m²
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5 m <sup>2</sup>
Control Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x 1 2.5 m²
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
Product Net Width	45 mm
Product Net Depth / Length	119.5 mm
Product Net Height	86 mm
Product Net Weight	0.36 kg
Popular Downloads	
Instructions and Manuals	1SBC101052M6801
Ordoring	
Ordering Minimum Order	1 piece
Quantity Customs Tariff Number	85364900
	65501500

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## **Categories**

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$ 

