

# AFS26-30-22-11



AFS26-30-22-11 24-60V50/60HZ 20-60VDC Contactor

## General Information

Extended Product Type	AFS26-30-22-11
Product ID	1SBL237082R1122
EAN	3471523005471
Catalog Description	AFS26-30-22-11 24-60V50/60HZ 20-60VDC 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 <sup>-7</sup> 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
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## Dimensions

Product Net Width	45 mm
Product Net Depth / Length	119.5 mm
Product Net Height	86 mm
Product Net Weight	0.36 kg

## 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 ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C}$ 50 A acc. to IEC 60947-5-1, $q = 40\text{ °C}$ 16 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 40 °C 45 A (690 V) 60 °C 40 A (690 V) 70 °C 32 A
Rated Operational Current AC-3 ( $I_e$ )	(220 / 230 / 240 V) 60 °C 26 A (380 / 400 V) 60 °C 26 A (415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 6,5 kW (380 / 400 V) 11 kW (400 V) 11 kW (415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 15 kW
Rated Operational Current AC-15 ( $I_e$ )	(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 ( $I_{cw}$ )	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 $I_e > 100$ A) at 440 V 500 A $\cos\phi=0,45$ ( $\cos\phi=0,35$ for $I_e > 100$ 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 ( $I_e$ )	(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 ( $U_i$ )	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 V
Operate Time	Between Coil De-energization and NC Contact Closing 13 ... 98 ms Between Coil De-energization and NO Contact Opening 11 ... 95 ms Between Coil Energization and NC Contact Opening 38 ... 90 ms Between Coil Energization and NO Contact Closing 40 ... 95 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

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## Environmental

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 60068-2-27	Closed, Shock Direction: A 30 g Closed, Shock Direction: B1 25 g Closed, Shock Direction: B2 15 g Closed, Shock Direction: C1 25 g Closed, Shock Direction: C2 25 g

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## Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 45 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 2 Hp (240 V AC) Single Phase 3 Hp (200 ... 208 V AC) Three Phase 7-1/2 Hp (220 ... 240 V AC) Three Phase 7-1/2 Hp (440 ... 480 V AC) Three Phase 15 Hp (550 ... 600 V AC) Three Phase 20 Hp
Tightening Torque UL/CSA	Auxiliary Circuit 11 in-lb Control Circuit 11 in-lb Main Circuit 22 in-lb

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## 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
GL Certificate	DNV-GL_TAE00001AF-3
Instructions and Manuals	1SBC101052M6801
RMRS Certificate	RMRS_1802705280
UL Listing Card	E312527

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## Container Information

Package Level 1 Units	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	3471523005471
Package Level 2 Units	36 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

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## 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

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## Categories

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

