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 PRODUCT-DETAILS

## AFS26-30-22-11

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




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**General Information**


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<b>Extended Product Type:</b>	AFS26-30-22-11
<b>Product ID:</b>	1SBL237082R1122
<b>EAN:</b>	3471523005471
<b>Catalog Description:</b>	AFS26-30-22-11 24-60V50/60HZ 20-60VDC Contactor
<b>Long Description:</b>	<p>The AFS26-30-22-11 is a 3 pole - 690 V IEC or 600 V UL contactor with fixed 2 N.O + 2 N.C. front mounted auxiliary contact blocks with screw connections, controlling motors up to 11 kW / 400 V AC (AC-3) or 15 hp / 480 V UL and switching power circuits up to 45 A (AC-1) or 45 A UL general use. AFS contactors can be easily integrated in machine manufacturer's systems complying with main standards EN ISO 13849 and EN 62061 - guaranteeing the safe use of your machinery and equipment. An easily identifiable yellow low energy auxiliary contact block ensures the status feedback circuits required in machine safety applications. Thanks to the AF technology, the contactor has a wide control voltage range (24 ... 60 V), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.</p>
<b>Display Name:</b>	AFS26-30-22-11

## Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

## Popular Downloads

EPLAN Data:	9AAC190099_EPLAN
Data Sheet, Technical Information:	1SBC100214C0202
Instructions and Manuals:	1SBC101052M6801
Instructions and Manuals (Part 2):	1SAC200017M0002
CAD Dimensional Drawing:	2CDC001079B0201

## Dimensions

Product Net Width:	45 mm
Product Net Depth / Length:	119.5 mm
Product Net Height:	86 mm
Product Net Weight:	0.36 kg
Dimension Diagram:	DNV_TAE00001AF-4

## 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
Number of Poles:	3P
Standards:	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60335-2-40 LZGH2 A2L, UL 60947-4-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-4-1
Rated Operational Voltage:	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f):	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ ):	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 50 A acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 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 ( $I_e$ ):	(415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A (380 / 400 V) 60 °C 26 A (220 / 230 / 240 V) 60 °C 26 A

**Rated Operational Current AC-3e (I<sub>e</sub>):** (415 V) 60 °C 26 A  
 (440 V) 60 °C 26 A  
 (500 V) 60 °C 23 A  
 (690 V) 60 °C 17 A  
 (380 / 400 V) 60 °C 26 A  
 (220 / 230 / 240 V) 60 °C 26 A

**Rated Operational Current AC-15 (I<sub>e</sub>):** (500 V) 2 A  
 (690 V) 2 A  
 (24 / 127 V) 6 A  
 (220 / 240 V) 4 A  
 (400 / 440 V) 3 A

**Rated Operational Current DC-1 (I<sub>e</sub>):** (110 V) 2 Poles in Series, 40 °C 45 A  
 (110 V) 2 Poles in Series, 60 °C 40 A  
 (110 V) 2 Poles in Series, 70 °C 32 A  
 (110 V) 3 Poles in Series, 40 °C 45 A  
 (110 V) 3 Poles in Series, 60 °C 40 A  
 (110 V) 3 Poles in Series, 70 °C 32 A  
 (220 V) 3 Poles in Series, 40 °C 45 A  
 (220 V) 3 Poles in Series, 60 °C 40 A  
 (220 V) 3 Poles in Series, 70 °C 32 A  
 (72 V) 1-Pole, 40 °C 45 A  
 (72 V) 1-Pole, 60 °C 40 A  
 (72 V) 1-Pole, 70 °C 32 A  
 (72 V) 2 Poles in Series, 40 °C 45 A  
 (72 V) 2 Poles in Series, 60 °C 40 A  
 (72 V) 2 Poles in Series, 70 °C 32 A  
 (72 V) 3 Poles in Series, 40 °C 45 A  
 (72 V) 3 Poles in Series, 60 °C 40 A  
 (72 V) 3 Poles in Series, 70 °C 32 A

**Rated Operational Current DC-3 (I<sub>e</sub>):** (110 V) 2 Poles in Series, 40 °C 45 A  
 (110 V) 2 Poles in Series, 60 °C 40 A  
 (110 V) 2 Poles in Series, 70 °C 32 A  
 (110 V) 3 Poles in Series, 40 °C 45 A  
 (110 V) 3 Poles in Series, 60 °C 40 A  
 (110 V) 3 Poles in Series, 70 °C 32 A  
 (220 V) 3 Poles in Series, 40 °C 45 A  
 (220 V) 3 Poles in Series, 60 °C 40 A  
 (220 V) 3 Poles in Series, 70 °C 32 A  
 (72 V) 1-Pole, 40 °C 45 A  
 (72 V) 1-Pole, 60 °C 40 A  
 (72 V) 1-Pole, 70 °C 32 A  
 (72 V) 2 Poles in Series, 40 °C 45 A  
 (72 V) 2 Poles in Series, 60 °C 40 A  
 (72 V) 2 Poles in Series, 70 °C 32 A  
 (72 V) 3 Poles in Series, 40 °C 45 A  
 (72 V) 3 Poles in Series, 60 °C 40 A  
 (72 V) 3 Poles in Series, 70 °C 32 A

**Rated Operational Current DC-5 (I<sub>e</sub>):** (110 V) 2 Poles in Series, 40 °C 45 A  
 (110 V) 2 Poles in Series, 60 °C 40 A  
 (110 V) 2 Poles in Series, 70 °C 32 A  
 (110 V) 3 Poles in Series, 40 °C 45 A  
 (110 V) 3 Poles in Series, 60 °C 40 A  
 (110 V) 3 Poles in Series, 70 °C 32 A  
 (220 V) 3 Poles in Series, 40 °C 20 A  
 (220 V) 3 Poles in Series, 60 °C 20 A  
 (220 V) 3 Poles in Series, 70 °C 20 A  
 (72 V) 1-Pole, 40 °C 20 A  
 (72 V) 1-Pole, 60 °C 20 A  
 (72 V) 1-Pole, 70 °C 20 A  
 (72 V) 2 Poles in Series, 40 °C 45 A  
 (72 V) 2 Poles in Series, 60 °C 40 A  
 (72 V) 2 Poles in Series, 70 °C 32 A  
 (72 V) 3 Poles in Series, 40 °C 45 A  
 (72 V) 3 Poles in Series, 60 °C 40 A  
 (72 V) 3 Poles in Series, 70 °C 32 A

<b>Rated Operational Current DC-13 (<math>I_e</math>):</b>	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(400 V) 11 kW (415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 15 kW (380 / 400 V) 11 kW (220 / 230 / 240 V) 6.5 kW
<b>Rated Operational Power AC-3e (<math>P_e</math>):</b>	(415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 15 kW (380 / 400 V) 11 kW (220 / 230 / 240 V) 6.5 kW
<b>Rated Short-time Withstand Current Low Voltage (<math>I_{cw}</math>):</b>	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
<b>Maximum Breaking Capacity:</b>	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
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 690 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	6 kV
<b>Maximum Electrical Switching Frequency:</b>	(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
<b>Maximum Mechanical Switching Frequency:</b>	3600 cycles per hour
<b>Rated Control Circuit Voltage (<math>U_c</math>):</b>	50 Hz 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 V
<b>Power Loss:</b>	at 6 A per Pole 0.1 W at Rated Operating Conditions AC-1 per Pole 1.8 W at Rated Operating Conditions AC-3 per Pole 0.6 W
<b>Operate Time:</b>	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
<b>Mounting on DIN Rail:</b>	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
<b>Mounting by Screws (not supplied) :</b>	2 x M4 Screws Placed Diagonally
<b>Connecting Capacity Main Circuit:</b>	Flexible with Ferrule 1/2x 1.5 ... 10 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1.5 ... 10 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.5 ... 4 mm <sup>2</sup> Rigid Solid 1/2x 2.5 ... 4 mm <sup>2</sup> Rigid Stranded 1/2x 2.5 ... 10 mm <sup>2</sup>

<b>Connecting Capacity Auxiliary Circuit:</b>	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 Solid 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	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 Solid 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 14 mm
<b>Degree of Protection:</b>	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
<b>Tightening Torque:</b>	Auxiliary Circuit 1.2 N·m Control Circuit 1.2 N·m Main Circuit 2.5 N·m
<b>Terminal Type:</b>	Screw Terminals
<b>Product Name:</b>	Block Contactor

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
<b>General Use Rating UL/CSA:</b>	(600 V AC) 45 A
<b>Horsepower Rating UL/CSA:</b>	(120 V AC) Single Phase 2 hp (200 ... 208 V AC) Three Phase 7-1/2 hp (220 ... 240 V AC) Three Phase 7-1/2 hp (240 V AC) Single Phase 3 hp (440 ... 480 V AC) Three Phase 15 hp (550 ... 600 V AC) Three Phase 20 hp
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Rigid Solid 1/2x 14-10 AWG Rigid Stranded 1/2x 14-8 AWG
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
<b>Connecting Capacity Control Circuit UL/CSA:</b>	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb Main Circuit 22 in·lb
<b>Full Load Amps Motor Use:</b>	(120 V AC) Single Phase 24 A (200 ... 208 V AC) Three Phase 25.3 A (220 ... 240 V AC) Three Phase 22 A (240 V AC) Single Phase 17 A (440 ... 480 V AC) Three Phase 21 A (550 ... 600 V AC) Three Phase 22 A

## Environmental

<b>Ambient Air Temperature:</b>	Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C Close to Contactor without Thermal O/L Relay -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C
<b>Climatic Withstand:</b>	Category B according to IEC 60947-1 Annex Q
<b>Maximum Operating Altitude Permissible:</b>	Without Derating 3000 m

<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	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
<b>Resistance to Vibrations:</b>	4g Closed Position & 2g Open position 5 ... 300 Hz
<b>Pollution Degree:</b>	3

## Material Compliance

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108467A5658
<b>REACH Declaration:</b>	2CMT2021-006202
<b>RoHS Declaration:</b>	2CMT2021-006277
<b>RoHS Information:</b>	No declaration needed
<b>Toxic Substances Control Act - TSCA:</b>	2CMT2023-006525
<b>WEEE B2C / B2B:</b>	Business To Business
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)

## ABB EcoSolutions

<b>ABB EcoSolutions:</b>	Yes
<b>ABB Site Meeting Group Waste To Landfill Target:</b>	No non-hazardous waste is sent to a landfill
<b>End Of Life Disassembling Instructions:</b>	1SBC101080M6801
<b>Environmental Product Declaration - EPD:</b>	1SBD250584E4000
<b>Improved Energy Efficiency for Customers:</b>	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
<b>Recyclability Rate of the Product acc. to EN45555:</b>	Design for Closing Resource Loops - Standard EN45555 - 94.3 %

## Certificates and Declarations

<b>A2L Certificate – UL:</b>	9AKK108469A4875 9AKK108469A4879
<b>ABS Certificate:</b>	ABS_20-2060694-PDA
<b>BV Certificate:</b>	BV_2634H24898C1
<b>CB Certificate:</b>	9AKK108472A2643
<b>CCC Certificate:</b>	CCC_2024010304656668
<b>CQC Certificate:</b>	CQC2010010304445623
<b>Declaration of Conformity - CCC:</b>	2020980304001254
<b>Declaration of Conformity - CE:</b>	1SBD250022U1000
<b>Declaration of Conformity - UKCA:</b>	1SBD250044U1000
<b>DNV Certificate:</b>	DNV_TAE00001AF-4
<b>LR Certificate:</b>	LRS_LR23403517TA-02

<b>RINA Certificate:</b>	RINA_ELE142224XG
<b>RMRS Certificate:</b>	RMRS_1802705280
<b>UL Certificate:</b>	UL-US-2150887-5 UL-CA-2142658-5
<b>UL Listing Card:</b>	E312527

### Container Information

<b>Package Level 1 Units:</b>	box 1 piece
<b>Package Level 1 Width:</b>	90 mm
<b>Package Level 1 Depth / Length:</b>	125 mm
<b>Package Level 1 Height:</b>	48 mm
<b>Package Level 1 Gross Weight:</b>	0.36 kg
<b>Package Level 1 EAN:</b>	3471523005471

### External Classifications and Standards

<b>Object Classification Code:</b>	Q
<b>ETIM 7:</b>	EC000066 - Power contactor, AC switching
<b>ETIM 8:</b>	EC000066 - Power contactor, AC switching
<b>ETIM 9:</b>	EC000066 - Power contactor, AC switching
<b>eClass:</b>	V11.0 : 27371003
<b>UNSPSC:</b>	39121529
<b>IDEA Granular Category Code (IGCC):</b>	4758 >> Iec Contactors
<b>E-Number (Finland):</b>	3708054

### Accessories

Identifier	Description	Qty	Type	Unit Of Measure
1SBN010120R1011	CAL4-11 Auxiliary Contact 1 Block		CAL4-11	piece

### Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > AFS Contactors > AFS26

