



PRODUCT-DETAILS

# AFS26-30-22-11

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

### Contactors



| 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      | <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> |

| Ordering               |         |
|------------------------|---------|
| Minimum Order Quantity | 1 piece |

Customs Tariff Number

85364900

| Popular Downloads        |                  |
|--------------------------|------------------|
| Instructions and Manuals | 1SBC101052M6801  |
| CAD Dimensional Drawing  | 2CDC001079B0201  |
| Dimension Diagram        | DNV_TAE00001AF-4 |

| 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/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1                                                                                |
| Rated Operational Voltage                                | Auxiliary Circuit 690 V<br>Main Circuit 690 V                                                                                                          |
| Rated Frequency (f)                                      | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz                                                                  |
| Conventional Free-air Thermal Current (I <sub>th</sub> ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ }^{\circ}\text{C}$ 50 A<br>acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A |
| Rated Operational Current AC-1 (I <sub>e</sub> )         | (690 V) 40 °C 45 A<br>(690 V) 60 °C 40 A<br>(690 V) 70 °C 32 A                                                                                         |
| Rated Operational Current AC-3 (I <sub>e</sub> )         | (415 V) 60 °C 26 A<br>(440 V) 60 °C 26 A<br>(500 V) 60 °C 23 A<br>(690 V) 60 °C 17 A<br>(380 / 400 V) 60 °C 26 A<br>(220 / 230 / 240 V) 60 °C 26 A     |
| Rated Operational Current AC-3e (I <sub>e</sub> )        | (415 V) 60 °C 26 A<br>(440 V) 60 °C 26 A<br>(500 V) 60 °C 23 A<br>(690 V) 60 °C 17 A<br>(380 / 400 V) 60 °C 26 A<br>(220 / 230 / 240 V) 60 °C 26 A     |
| Rated Operational Power AC-3 (P <sub>e</sub> )           | (400 V) 11 kW<br>(415 V) 11 kW<br>(440 V) 15 kW<br>(500 V) 15 kW<br>(690 V) 15 kW<br>(380 / 400 V) 11 kW<br>(220 / 230 / 240 V) 6.5 kW                 |
| Rated Operational Power AC-3e (P <sub>e</sub> )          | (415 V) 11 kW<br>(440 V) 15 kW                                                                                                                         |

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   | (500 V) 15 kW<br>(690 V) 15 kW<br>(380 / 400 V) 11 kW<br>(220 / 230 / 240 V) 6.5 kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational<br>Current AC-15 ( $I_e$ )                      | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(400 / 440 V) 3 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated Short-time<br>Withstand Current Low<br>Voltage ( $I_{cw}$ ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A<br>for 0.1 s 140 A<br>for 1 s 100 A                                                                                                                                                                                                                                                                                                                                |
| Maximum Breaking<br>Capacity                                      | $\cos \phi=0.45$ ( $\cos \phi=0.35$ for $I_e > 100$ A) at 440 V 500 A<br>$\cos \phi=0.45$ ( $\cos \phi=0.35$ for $I_e > 100$ A) at 690 V 200 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum Electrical<br>Switching Frequency                         | (AC-1) 600 cycles per hour<br>(AC-15) 1200 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 1200 cycles per hour<br>(DC-13) 900 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Operational<br>Current DC-1 ( $I_e$ )                       | (110 V) 2 Poles in Series, 40 °C 45 A<br>(110 V) 2 Poles in Series, 60 °C 40 A<br>(110 V) 2 Poles in Series, 70 °C 32 A<br>(110 V) 3 Poles in Series, 40 °C 45 A<br>(110 V) 3 Poles in Series, 60 °C 40 A<br>(110 V) 3 Poles in Series, 70 °C 32 A<br>(220 V) 3 Poles in Series, 40 °C 45 A<br>(220 V) 3 Poles in Series, 60 °C 40 A<br>(220 V) 3 Poles in Series, 70 °C 32 A<br>(72 V) 1-Pole, 40 °C 45 A<br>(72 V) 1-Pole, 60 °C 40 A<br>(72 V) 1-Pole, 70 °C 32 A<br>(72 V) 2 Poles in Series, 40 °C 45 A<br>(72 V) 2 Poles in Series, 60 °C 40 A<br>(72 V) 2 Poles in Series, 70 °C 32 A<br>(72 V) 3 Poles in Series, 40 °C 45 A<br>(72 V) 3 Poles in Series, 60 °C 40 A<br>(72 V) 3 Poles in Series, 70 °C 32 A |
| Rated Operational<br>Current DC-3 ( $I_e$ )                       | (110 V) 2 Poles in Series, 40 °C 45 A<br>(110 V) 2 Poles in Series, 60 °C 40 A<br>(110 V) 2 Poles in Series, 70 °C 32 A<br>(110 V) 3 Poles in Series, 40 °C 45 A<br>(110 V) 3 Poles in Series, 60 °C 40 A<br>(110 V) 3 Poles in Series, 70 °C 32 A<br>(220 V) 3 Poles in Series, 40 °C 45 A<br>(220 V) 3 Poles in Series, 60 °C 40 A<br>(220 V) 3 Poles in Series, 70 °C 32 A<br>(72 V) 1-Pole, 40 °C 45 A<br>(72 V) 1-Pole, 60 °C 40 A<br>(72 V) 1-Pole, 70 °C 32 A<br>(72 V) 2 Poles in Series, 40 °C 45 A<br>(72 V) 2 Poles in Series, 60 °C 40 A<br>(72 V) 2 Poles in Series, 70 °C 32 A<br>(72 V) 3 Poles in Series, 40 °C 45 A<br>(72 V) 3 Poles in Series, 60 °C 40 A<br>(72 V) 3 Poles in Series, 70 °C 32 A |
| Rated Operational<br>Current DC-5 ( $I_e$ )                       | (110 V) 2 Poles in Series, 40 °C 45 A<br>(110 V) 2 Poles in Series, 60 °C 40 A<br>(110 V) 2 Poles in Series, 70 °C 32 A<br>(110 V) 3 Poles in Series, 40 °C 45 A<br>(110 V) 3 Poles in Series, 60 °C 40 A<br>(110 V) 3 Poles in Series, 70 °C 32 A<br>(220 V) 3 Poles in Series, 40 °C 20 A<br>(220 V) 3 Poles in Series, 60 °C 20 A<br>(220 V) 3 Poles in Series, 70 °C 20 A<br>(72 V) 1-Pole, 40 °C 20 A                                                                                                                                                                                                                                                                                                           |

|                                                        |                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                        | (72 V) 1-Pole, 60 °C 20 A<br>(72 V) 1-Pole, 70 °C 20 A<br>(72 V) 2 Poles in Series, 40 °C 45 A<br>(72 V) 2 Poles in Series, 60 °C 40 A<br>(72 V) 2 Poles in Series, 70 °C 32 A<br>(72 V) 3 Poles in Series, 40 °C 45 A<br>(72 V) 3 Poles in Series, 60 °C 40 A<br>(72 V) 3 Poles in Series, 70 °C 32 A |
| Rated Operational<br>Current DC-13 (I <sub>e</sub> )   | (24 V) 6 A / 144 W<br>(48 V) 2.8 A / 134 W<br>(72 V) 1 A / 72 W<br>(110 V) 0.55 A / 60 W<br>(125 V) 0.55 A / 69 W<br>(220 V) 0.27 A / 60 W<br>(250 V) 0.27 A / 68 W<br>(400 V) 0.15 A / 60 W<br>(500 V) 0.13 A / 65 W<br>(600 V) 0.1 A / 60 W                                                          |
| Rated Insulation Voltage<br>(U <sub>i</sub> )          | acc. to IEC 60947-4-1 690 V<br>acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                     |
| Rated Impulse<br>Withstand Voltage (U <sub>imp</sub> ) | 6 kV                                                                                                                                                                                                                                                                                                   |
| Maximum Mechanical<br>Switching Frequency              | 3600 cycles per hour                                                                                                                                                                                                                                                                                   |
| Rated Control Circuit<br>Voltage (U <sub>c</sub> )     | 50 Hz 24 ... 60 V<br>60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V                                                                                                                                                                                                                                     |
| Operate Time                                           | Between Coil De-energization and NC Contact Closing 13 ... 98 ms<br>Between Coil De-energization and NO Contact Opening 11 ... 95 ms<br>Between Coil Energization and NC Contact Opening 38 ... 90 ms<br>Between Coil Energization and NO Contact Closing 40 ... 95 ms                                 |
| Mounting on DIN Rail                                   | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                                                         |
| Mounting by Screws (not<br>supplied)                   | 2 x M4 screws placed diagonally                                                                                                                                                                                                                                                                        |
| Connecting Capacity<br>Main Circuit                    | Flexible with Ferrule 1/2x 1.5 ... 10 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 1.5 ... 10 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 1.5 ... 4 mm <sup>2</sup><br>Rigid Solid 1/2x 2.5 ... 4 mm <sup>2</sup><br>Rigid Stranded 1/2x 2.5 ... 10 mm <sup>2</sup>                 |
| Connecting Capacity<br>Auxiliary Circuit               | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>           |
| Connecting Capacity<br>Control Circuit                 | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>           |
| Wire Stripping Length                                  | Auxiliary Circuit 10 mm<br>Control Circuit 10 mm<br>Main Circuit 14 mm                                                                                                                                                                                                                                 |
| Degree of Protection                                   | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20                                                                                                      |
| Terminal Type                                          | Screw Terminals                                                                                                                                                                                                                                                                                        |

## Technical UL/CSA

|                                     |                    |
|-------------------------------------|--------------------|
| Maximum Operating<br>Voltage UL/CSA | Main Circuit 600 V |
| General Use Rating                  | (600 V AC) 45 A    |

UL/CSA

|                          |                                         |
|--------------------------|-----------------------------------------|
| Horsepower Rating        | (120 V AC) Single Phase 2 hp            |
| UL/CSA                   | (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    |
| Connecting Capacity      | Rigid Solid 1/2x 14-10 AWG              |
| Main Circuit UL/CSA      | Rigid Stranded 1/2x 14-8 AWG            |
| Connecting Capacity      | Rigid Solid 1/2x 18-14 AWG              |
| Auxiliary Circuit UL/CSA | Rigid Stranded 1/2x 18-14 AWG           |
| Connecting Capacity      | Rigid Solid 1/2x 18-14 AWG              |
| Control Circuit UL/CSA   | Rigid Stranded 1/2x 18-14 AWG           |
| Tightening Torque        | Auxiliary Circuit 11 in-lb              |
| UL/CSA                   | Control Circuit 11 in-lb                |
|                          | Main Circuit 22 in-lb                   |

## Environmental

|                                            |                                                                |
|--------------------------------------------|----------------------------------------------------------------|
| Ambient Air Temperature                    | 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                  |
| Climatic Withstand                         | Category B according to IEC 60947-1 Annex Q                    |
| Maximum Operating Altitude Permissible     | Without Derating 3000 m                                        |
| 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                               |
| Resistance to Vibrations                   | 4g Closed Position & 2g Open position 5 ... 300 Hz             |

## Material Compliance

|                                             |                                                            |
|---------------------------------------------|------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                            |
| REACH Declaration                           | 2CMT2021-006202                                            |
| RoHS Information                            | 2CMT2021-006277                                            |
| RoHS Status                                 | Following EU Directive 2011/65/EU                          |
| Toxic Substances Control Act - TSCA         | 2CMT2023-006525                                            |
| WEEE B2C / B2B                              | Business To Business                                       |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Certificates and Declarations

|                                  |                      |
|----------------------------------|----------------------|
| ABS Certificate                  | ABS_20-2060694-PDA   |
| CB Certificate                   | CB_SE-112316         |
| CCC Certificate                  | CCC_2010010304445623 |
| CQC Certificate                  | CQC2010010304445623  |
| Declaration of Conformity - CCC  | 2020980304001254     |
| Declaration of Conformity - CE   | 1SBD250022U1000      |
| Declaration of Conformity - UKCA | 1SBD250044U1000      |
| DNV Certificate                  | DNV_TAE00001AF-4     |

|                  |                                    |
|------------------|------------------------------------|
| EAC Certificate  | EAC_RUC-FRME77B03199               |
| LR Certificate   | LRS_LR23403517TA-02                |
| RINA Certificate | RINA_ELE240318XG                   |
| RMRS Certificate | RMRS_1802705280                    |
| UL Certificate   | UL-US-2150887-5<br>UL-CA-2142658-5 |
| UL Listing Card  | E312527                            |

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            | 3471523005471 |
| 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     |

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  |
| ETIM 8                             | EC000066 - Power contactor, AC switching  |
| eClass                             | V11.0 : 27371003                          |
| UNSPSC                             | 39121529                                  |
| IDEA Granular Category Code (IGCC) | 4758 >> lec Contactors                    |
| E-Number (Finland)                 | 3708054                                   |

Accessories

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

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## Categories

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

