



Representative Image

## Alternate Catalog No. AF65-30-00-11 Catalog No. 1SBL387001R1100

**Description: AF65-30-00-11 24-60V50/60HZ 20-60VDC Contactor**

**UPC No 3471523132610**

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AF65 contactors are used for controlling power circuits up to 690 V AC and 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. AF... contactors include an electronic coil interface accepting a wide control voltage  $U_c$  min. ...  $U_c$  max. Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 V DC. AF contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF contactors have built-in surge protection and do not require additional surge suppressors. The AF... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, front and side-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available.

### Descriptors

|                      |                  |
|----------------------|------------------|
| Category             | AF Contactors    |
| Block Contactor Type | 3-Pole Contactor |

### Specifications

|  |  |
|--|--|
| Product Type                                   | AF   |
| General Use Rating UL/CSA                      | (600 V AC) 90 A  |
| Object Classification Code                     | Q  |
| Terminal Type                                  | Screw Terminals  |
| Rated Control Circuit Voltage                  | 50 Hz /60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V   |
| Number of Main Contacts NO                     | 3  |
| Number of Main Contacts NC                     | 0  |
| Climatic Withstand                             | Category B according to IEC 60947-1 Annex Q  |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5 ... 300 Hz 3 g closed position / 3 g open position   |
| Number of Auxiliary Contacts NO                | 0  |
| RoHS Status                                    | Following EU Directive 2011/65/EU  |
| Reference Ambient Air Temperature              | Close to Contactor for Storage -60 ... +80 °C<br>Close to Contactor without Thermal O/L Relay -40 ... +70 °C<br>Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 °C  |
| Rated Operational Voltage                      | Main Circuit 690 V   |
| Resistance to Shock acc. to IEC 60068-2-27     | Closed, Shock Direction: A 25 K40<br>Closed, Shock Direction: B1 25 K40<br>Closed, Shock Direction: B2 15 K40<br>Closed, Shock Direction: C1 25 K40<br>Closed, Shock Direction: C2 25 K40<br>Open, Shock Direction: B1 5 K40 |
| Number of Auxiliary Contacts NC                | 0  |
| Tightening Torque UL/CSA                       | Control Circuit 11 IA<br>Main Circuit 35 IA  |
| Maximum Operating Altitude Permissible         | 3000 m   |
| Rated Operational Current AC-1                 | (690 V) 40 °C 105 A<br>(690 V) 60 °C 90 A<br>(690 V) 70 °C 80 A  |

## Specifications

|   |   |
|---|---|
| Rated Operational Power AC-3              | (220 / 230 / 240 V) 18.5 KWT<br>(380 / 400 V) 30 KWT<br>(415 V) 37 KWT<br>(440 V) 37 KWT<br>(500 V) 37 KWT<br>(690 V) 37 KWT<br>(400 V) 30 KWT  |
| Horsepower Rating UL/CSA                  | (220 ... 240 V AC) Three Phase 25 hp<br>(440 ... 480 V AC) Three Phase 50 hp<br>(550 ... 600 V AC) Three Phase 60 hp<br>(120 V AC) Single Phase 5 hp<br>(200 ... 208 V AC) Three Phase 20 hp<br>(240 V AC) Single Phase 15 hp   |
| Conventional Free-air Thermal Current     | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 105 A  |
| Rated Frequency                           | Main Circuit 50Hz<br>Main Circuit 60 Hz   |
| Rated Short-time Withstand Current        | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A for 1 s - A |
| Rated Operational Current AC-3            | (220 / 230 / 240 V) 60 °C 65 A<br>(380 / 400 V) 60 °C 65 A<br>(415 V) 60 °C 65 A<br>(440 V) 60 °C 65 A<br>(500 V) 60 °C 55 A<br>(690 V) 60 °C 39 A  |
| Maximum Electrical Switching Frequency    | AC-1 600 cycles per hour<br>AC-2 / AC-4 150 cycles per hour<br>AC-3 1200 cycles per hour  |
| Rated Insulation Voltage                  | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V  |
| Maximum Breaking Capacity                 | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 950 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 600 A  |
| Maximum Mechanical Switching Frequency    | 3600 cycles per hour  |
| Operate Time                              | Between Coil De-energization and NC Contact Closing 19 ... 105 ms<br>Between Coil De-energization and NO Contact Opening 17 ... 100 ms<br>Between Coil Energization and NC Contact Opening 38 ... 95 ms<br>Between Coil Energization and NO Contact Closing 42 ... 100 ms   |
| Secondary Rated Impulse Withstand Voltage | 6 kV  |
| Connecting Capacity Main Circuit          | Rigid 1/2x 6 ... 3 5 m <sup>2</sup><br>Flexible with Ferrule 1/2x 4 ... 35 m <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 4 ... 35 m <sup>2</sup>   |
| Connecting Capacity Control Circuit       | Flexible with Ferrule 1/2x 0.75 ... 2.5 m <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 m <sup>2</sup> /2x 0.75 ... 1.5 m <sup>2</sup><br>Rigid 1/2x 1 ... 2.5 m <sup>2</sup>   |
| Degree of Protection                      | acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10  |
| Screw Terminal Type                       | Screw Terminals   |
| Wire Stripping Length                     | Main Circuit 16 mm  |

## Classifications

|          |   |
|----------|---|
| ETIM 4   | EC000066 - Magnet contactor, AC-switching |
| ETIM 6.0 | EC000066 - Power contactor, AC switching  |
| ETIM 7   | EC000066 - Power contactor, AC switching  |
| ETIM 5.0 | EC000066 - Magnet contactor, AC-switching |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Weight         | 0.97 kg |
| Product Net Depth / Length | 111 mm  |

## Dimensions

|                    |          |
|--------------------|----------|
| Product Net Width  | 55 mm    |
| Product Net Height | 125.5 mm |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 150 mm        |
| Package Level 1 Height         | 97 mm         |
| Package Level 1 Depth / Length | 150 mm        |
| Package Level 1 EAN            | 3471523132610 |
| Package Level 1 Units          | box 1 piece   |
| Package Level 2 Width          | 250 mm        |
| Package Level 2 Height         | 300 mm        |
| Package Level 1 Gross Weight   | 1.07 kg       |
| Package Level 2 Units          | box 10 piece  |
| Package Level 3 Units          | 240 piece     |
| Package Level 2 Depth / Length | 300 mm        |
| Package Level 2 Gross Weight   | 10.7 kg       |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1        |
| Customs Tariff Number  | 85364900 |