



Representative Image

## Alternate Catalog No. AF26-40-00-14 Catalog No. 1SBL237201R1400

**Description: AF26-40-00-14 250-500V50/60HZ-DC Contactor**

**UPC No 3471523115248**

**Home > Contactors & Starters > UL Listed IEC Contactors > AF Contactors**

AF26 4-pole contactors are used for controlling power circuits up to 690 V AC and 440 V DC. They are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces...). AF... contactors include an electronic coil interface accepting a wide control voltage  $U_c \text{ min.} \dots U_c \text{ max.}$  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 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 4 N.O. 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 | 4-Pole Contactor |

### Specifications

|  |  |
|--|--|
| Product Type                                   | AF   |
| General Use Rating UL/CSA                      | (600 V AC) 45 A  |
| Object Classification Code                     | Q  |
| Terminal Type                                  | Screw Terminals  |
| Rated Control Circuit Voltage                  | 50 Hz /60 Hz DC Operation 250 ... 500 V  |
| Number of Main Contacts NO                     | 4  |
| 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 4 g closed position / 2 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>Near Contactor for Operation in Free Air -40 ... +70 °C   |
| Rated Operational Voltage                      | Main Circuit 690 V   |
| Number of Auxiliary Contacts NC                | 0  |
| Tightening Torque UL/CSA                       | Control Circuit 11 IA<br>Main Circuit 22 IA  |
| Maximum Operating Altitude Permissible         | 3000 m   |
| Rated Operational Current AC-1                 | (690 V) 40 °C 45 A<br>(690 V) 60 °C 40 A<br>(690 V) 70 °C 32 A   |
| Standards                                      | IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14<br>(220 / 230 / 240 V) 5.5 KWT<br>(415 V) 11 KWT<br>(440 V) 11 KWT<br>(500 V) 11 KWT<br>(690 V) 9 KWT<br>(400 V) 11 KWT |
| Rated Operational Power AC-3                   | (220 / 230 / 240 V) 5.5 KWT<br>(415 V) 11 KWT<br>(440 V) 11 KWT<br>(500 V) 11 KWT<br>(690 V) 9 KWT<br>(400 V) 11 KWT   |
| Conventional Free-air Thermal Current          | acc. to IEC 60947-4-1, Open Contactors $q = 40 \text{ °C}$ 55 A  |


**by ABB**

## Specifications

|   |  |
|---|--|
| 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 300 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 55 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 450 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A<br>for 1 s - A |
| Rated Operational Current AC-3            | (220 / 230 / 240 V) 60 °C 23.2 A<br>(380 / 400 V) 60 °C 22 A<br>(415 V) 60 °C 21.2 A<br>(440 V) 60 °C 20 A<br>(500 V) 60 °C 17.6 A<br>(690 V) 60 °C 10.5 A   |
| Maximum Electrical Switching Frequency    | AC-1 600 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 Mechanical Switching Frequency    | 3600 cycles per hour   |
| 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   |
| Secondary Rated Impulse Withstand Voltage | 6 kV   |
| Connecting Capacity Main Circuit          | Rigid 1/2x 1.5 ... 16 m <sup>2</sup><br>Flexible with Ferrule 1/2x 1.5 ... 16 m <sup>2</sup><br>Flexible with Insulated Ferrule 1x 1.5 ... 16 m <sup>2</sup> /2x 1.5 ... 16 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 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20   |
| Wire Stripping Length                     | Control Circuit 10 mm<br>Main Circuit 12 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         | 0.4kg  |
| Product Net Depth / Length | 101 mm |
| Product Net Width          | 45 mm  |
| Product Net Height         | 86 mm  |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 87 mm         |
| Package Level 1 Height         | 47 mm         |
| Package Level 1 Depth / Length | 103 mm        |
| Package Level 1 EAN            | 3471523115248 |
| Package Level 1 Units          | box 1 piece   |
| Package Level 2 Height         | 315 mm        |
| Package Level 1 Gross Weight   | 0.4 kg        |
| Package Level 2 Units          | 18 piece      |
| Package Level 3 Units          | 864 piece     |

**Package Information**

|                                |         |
|--------------------------------|---------|
| Package Level 2 Depth / Length | 300 mm  |
| Package Level 2 Gross Weight   | 14.4 kg |

**Ordering**

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