



Alternate Catalog No. AF09-40-00-12 Catalog No. 1SBL137201R1200

Description: AF09-40-00-12 48-130V50/60HZ-DC Contactor

UPC No 3471523115026

Home > Contactors > UL Listed IEC Contactors > AF Contactors

AF09 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 Uc min. ... Uc 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) 25 A | |
| Object Classification Code | Q | |
| Terminal Type | Screw Terminals | |
| Rated Control Circuit Voltage | 50 Hz /60 Hz DC Operation 48 130 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 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 Main Circuit 13 IA | |
| Maximum Operating Altitude Permissible | 3000 m | |
| Rated Operational Current AC-1 | (690 V) 40 °C 25 A (690 V) 60 °C 25 A (690 V) 70 °C 22 A | |
| Standards | IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14 | |
| Rated Operational Power AC-3 | (220 / 230 / 240 V) 2.2 KWT (380 / 400 V) 4 KWT (415 V) 4 KWT (440 V) 4 KWT (500 V) 5.5 KWT (690 V) 5.5 KWT (400 V) 4 KWT | |
| Conventional Free-air Thermal Current | acc. to IEC 60947-4-1, Open Contactors $q = 40 ^{\circ}\text{C}$ 35 A | |

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| Specifications | |
|---|---|
| Rated Frequency | Main Circuit 50Hz Main Circuit 60 Hz |
| Rated Short-time Withstand Current | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 1 s - A |
| Rated Operational Current AC-3 | (220 / 230 / 240 V) 60 °C 9 A (380 / 400 V) 60 °C 9 A (415 V) 60 °C 9 A (440 V) 60 °C 9 A (500 V) 60 °C 9.5 A (690 V) 60 °C 7 A |
| Maximum Electrical Switching Frequency | AC-1 600 cycles per hour |
| Rated Insulation Voltage | acc. to UL/CSA 600 V 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 le > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 A |
| Maximum Mechanical Switching Frequency | 3600 cycles per hour |
| 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 |
| Secondary Rated Impulse Withstand Voltage | 6 kV |
| Connecting Capacity Main Circuit | Rigid 1/2x 1 6 m ² Flexible with Ferrule 1/2x 0.75 6 m ² Flexible with Insulated Ferrule 1x 0.75 4 m ² /2x 0.75 2.5 m ² |
| Connecting Capacity Control Circuit | Flexible with Ferrule $1/2x$ 0.75 2.5 m ² Flexible with Insulated Ferrule $1x$ 0.75 2.5 m ² / $2x$ 0.75 1.5 m ² Rigid $1/2x$ 1 2.5 m ² |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20 |
| Wire Stripping Length | Control Circuit 10 mm Main Circuit 10 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 | 0.27 kg |
| Product Net Depth / Length | 77 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 | 79 mm |
| Package Level 1 EAN | 3471523115026 |

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box 1 piece

315 mm

0.27 kg

Package Level 1 Units

Package Level 2 Height

Package Level 1 Gross Weight

| Package Information | | |
|--------------------------------|------------|--|
| Package Level 2 Units | 27 piece | |
| Package Level 3 Units | 1296 piece | |
| Package Level 2 Depth / Length | 300 mm | |
| Package Level 2 Gross Weight | 14.58 kg | |

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

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