AF09-40-00-12



Products + Low Voltage Products and Systems + Control Products + Contactors + Block Contactors

General Information

Extended Product Type: AF09-40-00-12

Product ID: 1SBL137201R1200

EAN: 3471523115026

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

Long Description: 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 a n electronic coil interface accepting a wide control voltage Uc min. ... Uc m ax. Only four coils cover control voltages between 24...500 V 50/60 Hz or 2 0...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 avail

able.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Popular Downloads

Data Sheet, Technical Information: 1SBC101419D0201

Instructions and Manuals: 1SBC101027M6801

Dimensions

Product Net Width: 45 mm

Product Net Depth / Length: 77 mm

Product Net Height: 86 mm

Product Net Weight: 0.270 kg

Technical

Number of Main Contacts NO: 4

Number of Main Contacts NC: 0

Number of Auxiliary Contacts NO: 0

| Number of Auxiliary Contacts NC: | 0 |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards: | IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N°14 |
| Rated Operational Voltage: | Main Circuit 690 V |
| Rated Frequency (f): | Main Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current (I _{th}): | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 35 A |
| Rated Operational Current AC-1 (I _e): | (690 V) 40 °C 25 A (690 V) 60 °C 25 A (690 V) 70 °C 22 A |
| Rated Operational Current AC-3 (I _e): | (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 |
| Rated Operational Power AC-3 (P _e): | (220 / 230 / 240 V) 2.2 kW (380 / 400 V) 4 kW (400 V) 4 kW (415 V) 4 kW (440 V) 4 kW (500 V) 5.5 kW (690 V) 5.5 kW |
| Rated Short-time Withstand Current (I _{cw}): | 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 -empty- A |
| 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 Electrical Switching Frequency: | AC-1 600 cycles per hour |
| Rated Insulation Voltage (U _i): | acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V |
| Rated Impulse Withstand Voltage (U _{imp}): | 6 kV |
| Maximum Mechanical Switching Frequency: | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c): | 50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V |

| 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 |
| Connecting Capacity Main Circuit: | Flexible with Insulated Ferrule 1x 0.75 4 mm ² |
| | Flexible with Insulated Ferrule 2x 0.75 2.5 mm ² |
| | Flexible with Ferrule 1/2x 0.75 6 mm ² |
| | Rigid 1/2x 1 6 mm ² |
| Connecting Capacity Control | Flexible with Ferrule 1/2x 0.75 2.5 mm ² |
| Circuit: | Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² |
| | Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² |
| | Rigid 1/2x 1 2.5 mm ² |
| Wire Stripping Length: | Control Circuit 10 mm |
| | Main Circuit 10 mm |
| 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 |
| Terminal Type: | Screw Terminals |
| nvironmental | |
| Austriant Air Tananaustrum | Class to Contactor for Characte CO 100 °C |
| Ambient Air Temperature: | Close to Contactor for Storage -60 +80 °C |
| | Near Contactor for Operation in Free Air -40 +70 °C |
| Climatic Withstand: | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude | 3000 m |

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| 7 | Near Contactor for Operation in Free Air -40 +70 °C |
|-------------------------------------------------|-----------------------------------------------------|
| Climatic Withstand: | Category B according to IEC 60947-1 Annex Q |
| Maximum Operating Altitude Permissible: | 3000 m |
| Resistance to Vibrations acc. to IEC 60068-2-6: | 5 300 Hz 4 g closed position / 2 g open position |
| Resistance to Shock acc. to IEC | Closed, Shock Direction: B1 25 g |
| 60068-2-27: | Open, Shock Direction: B1 5 g |
| | Shock Direction: A 30 g |
| | Shock Direction: B2 15 g |
| | Shock Direction: C1 25 g |
| | Shock Direction: C2 25 g |

Technical UL/CSA

| General Use Rating UL/CSA: | (600 V AC) 25 A |
|----------------------------|--------------------------|
| Tightening Torque UL/CSA: | Control Circuit 11 in·lb |
| | Main Circuit 13 in·lb |

Certificates and Declarations (Document Number)

| ABS Certificate: | ABS_15-GE1349500-PDA_90682247 |
|---------------------------------|-------------------------------|
| BV Certificate: | BV_2634H24898B0 |
| CB Certificate: | CB_SE-80869M1 |
| CCC Certificate: | CCC_2010010304445624 |
| Declaration of Conformity - CE: | 1SBD250001U1000 |

| DNV Certificate: | DNV-GL_TAE00001AF-1 |
|----------------------------|-----------------------------|
| DNV GL Certificate: | DNV-GL_TAE00001AF-1 |
| EAC Certificate: | EAC_RU C-FR ME77 B01010 |
| Environmental Information: | 1SBD250147E1000 |
| GOST Certificate: | GOST_POCCFR.ME77.B07175.pdf |
| Instructions and Manuals: | 1SBC101027M6801 |
| KC Certificate: | KC_HW02016-15007A |
| LR Certificate: | LRS_1300087E1 |
| RINA Certificate: | RINA_ELE084013XG |
| RMRS Certificate: | RMRS_1400682124 |
| RoHS Information: | 1SBD251011E1000 |
| UL Certificate: | UL_20120918-E319322-3-1 |
| UL Listing Card: | UL_E319322 |

Container Information

Package Level 1 Units:

| - | · F |
|---------------------------------|---------------|
| Package Level 1 Width: | 87 mm |
| Package Level 1 Depth / Length: | 79 mm |
| Package Level 1 Height: | 47 mm |
| Package Level 1 Gross Weight: | 0.27 kg |
| Package Level 1 EAN: | 3471523115026 |
| Package Level 2 Units: | 54 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: | 14.58 kg |
| Package Level 3 Units: | 1296 piece |

1 piece

Classifications

| Object Classification Code: | Q |
|-----------------------------|-------------------------------------------|
| E-nummer: | 3211389 |
| 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 |
| UNSPSC: | 39121529 |

