



Riferimento: AF80-30-00-41 Codice: 1SBL397001R4100

AF80-30-00-41 24-60V50 / 60 HZ

contattore

Acquista da Electric Automation Network



AF80 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 Uc min. ... Uc max. Only four coils cover control voltages between 24...500 V 50/60 Hz. 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 sidemounted 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 operated - Accessories: a wide range of accessories is available.

Ordering

| EAN: | 3471523132900 |
|-------------------------|---------------|
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85369085 |

Dimensions

| Product Net Width: | 70 mm |
|--------------------|--------|
| Product Net Depth: | 116 mm |

| Product Net Height: | 125.5 mm |
|---------------------|----------|
| Product Net Weight: | 1.220 kg |

Container Information

| Package Level 1 Units: | 1 piece |
|-------------------------------|---------------|
| Package Level 1 Width: | 150 mm |
| Package Level 1 Length: | 150 mm |
| Package Level 1 Height: | 103 mm |
| Package Level 1 Gross Weight: | 1.22 kg |
| Package Level 1 EAN: | 3471523132900 |
| Package Level 2 Units: | 10 piece |
| Package Level 2 Width: | 300 mm |
| Package Level 2 Length: | 320 mm |
| Package Level 2 Height: | 500 mm |
| Package Level 3 Units: | 1296 piece |

Technical

| Number of Main Contacts NO: | 3 |
|---|---|
| Number of Main Contacts NC: | 0 |
| Number of Auxiliary Contacts NO: | 0 |
| Number of Auxiliary Contacts NC: | 0 |
| 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 130 A |
| Rated Operational Current AC-1 (I _e): | (690 V) 40 °C 125 A (690 V) 60 °C 100 A (690 V) 70 °C 85 A |
| Rated Operational Current AC-3 (I _e): | (220 / 230 / 240 V) 60 °C 80 A (380 / 400 V) 60 °C 80 A (415 V) 60 °C 80 A (440 V) 60 °C 80 A (500 V) 60 °C 65 A (690 V) 60 °C 49 A (1000 V) 60 °C 25 A |
| Rated Operational Power AC-3 (P _e): | (220 / 230 / 240 V) 22 kW (380 / 400 V) 37 kW (415 V) 45 kW (440 V) 45 kW (500 V) 45 kW (690 V) 45 kW |

| Rated Short-time Withstand Current (I _{cw}): | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 780 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 450 A |
|--|---|
| Maximum Breaking Capacity: | cos phi=0.45 (cos phi=0.35 for le $>$ 100 A) at 440 V 1150 A cos phi=0.45 (cos phi=0.35 for le $>$ 100 A) at 690 V 750 A |
| Maximum Electrical Switching Frequency: | AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 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) 1000 V |
| Rated Impulse Withstand Voltage (U _{imp}): | 8 kV |
| Maximum Mechanical Switching Frequency: | 3600 cycles per hour |
| Rated Control Circuit Voltage (U _c): | 50 Hz 24 60 V 60 Hz 24 60 V |
| Operate Time: | Between Coil De-energization and NC Contact Closing 19 105 ms Between Coil De-energization and NO Contact Opening 17 100 ms Between Coil Energization and NC Contact Opening 38 95 ms Between Coil Energization and NO Contact Closing 42 100 ms |
| Connecting Capacity-Main Circuit: | Flexible with Insulated Ferrule 1/2x 650 mm ² Flexible with Ferrule 1/2x 650 mm ² Rigid 1x 670 mm ² Rigid 2x 650 mm ² |
| Connecting Capacity-Control Circuit: | Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.752.5 mm ² Flexible with Insulated Ferrule 2x 0.751.5 mm ² Rigid 1/2x 12.5 mm ² |
| Wire Stripping Length: | Main Circuit 17 mm |
| Degree of Protection: | acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Terminal Type: | Screw Terminals |

Environmental

| Ambient Air Temperature: | Close to Contactor for Storage -60+80 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C |
|---|--|
| Maximum Operating Altitude Permissible: | 3000 m |

| Resistance to Shock acc. to IEC 60068-2-27: | Closed, Shock Direction: A 25 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 Open, Shock Direction: B1 5 g |
|---|--|
| Resistance to Vibrations acc. to IEC 60068-2-6: | 5300 Hz 3 g closed position / 3 g open position |

Technical UL/CSA

| General Use Rating UL/CSA: | (600 V AC) 105 A |
|----------------------------|---|
| Horsepower Rating UL/CSA: | (120 V AC) Single Phase 7-1/2 Hp (240 V AC) Single Phase 15 Hp (200 208 V AC) Three Phase 25 Hp (220 240 V AC) Three Phase 30 Hp (440 480 V AC) Three Phase 60 Hp (550 600 V AC) Three Phase 75 Hp |
| Tightening Torque UL/CSA: | Control Circuit 11 in·lb Main Circuit 53 in·lb |

Certificates and Declarations (Document Number)

| ABS Certificate: | ABS_15-GE1349500-PDA_90682247 |
|---------------------------------|-------------------------------|
| BV Certificate: | BV_2634H36994A |
| CB Certificate: | CB_SE_77417 |
| CCC Certificate: | CCC_2013010304646569 |
| cUL Certificate: | UL_20130926-E312527_14_1 |
| Declaration of Conformity - CE: | 1SBD250176C3000 |
| DNV Certificate: | DNV-GL_E13871 |
| EAC Certificate: | EAC_RU C-FR ME77 B01010 |
| GL Certificate: | DNV-GL_E13871 |
| LR Certificate: | LRS_1300087E1 |
| RINA Certificate: | RINA_ELE084013XG |
| RMRS Certificate: | RMRS_1400682124 |
| RoHS Information: | 1SBD251021E1000 |

Classifications

| ETIM 5: | EC000066 - Magnet contactor, AC-switching |
|---------|---|
| UNSPSC: | 39121529 |