



Reference: AF460-30-11 Code: 1SFL597001R6811

AF460-30-11 24-60V DC Contactor

Buy it at Electric Automation Network



A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 24-60 V, DC

Ordering

| EAN: | 7320500217887 |
|-------------------------|---------------|
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85364900 |

Dimensions

| Product Net Width: | 186.0 mm |
|---------------------|-----------|
| Product Net Depth: | 216.0 mm |
| Product Net Height: | 278.0 mm |
| Product Net Weight: | 12.000 kg |

Container Information

| Package Level 1 Units: | 1 piece |
|-------------------------|---------|
| Package Level 1 Width: | 260 mm |
| Package Level 1 Length: | 250 mm |
| Package Level 1 Height: | 350 mm |

| Package Level 1 Gross Weight: | 12 kg |
|-------------------------------|---------------|
| Package Level 1 EAN: | 7320500217887 |

Technical

| Number of Main Contacts NO: | 3 |
|---|--|
| Number of Main Contacts NC: | 0 |
| Number of Auxiliary Contacts NO: | 1 |
| Number of Auxiliary Contacts NC: | 1 |
| Rated Operational Voltage: | Main Circuit 1000 V |
| Rated Frequency (f): | Main Circuit 50 Hz Main Circuit 60 Hz |
| Conventional Free-air Thermal Current (I _{th}): | acc. to IEC 60947-4-1, Open Contactors q = 40 $^{\circ}$ C 700 A |
| Rated Operational Current AC-1 (I _e): | (690 V) 55 °C 600 A (690 V) 40 °C 700 A (1000 V) 40 °C 700 A (1000 V) 55 °C 600 A (690 V) 70 °C 480 A (1000 V) 70 °C 480 A |
| Rated Operational Current AC-3 (I _e): | (1000 V) 55 °C 200 A (415 V) 55 °C 460 A (690 V) 55 °C 400 A (220 / 230 / 240 V) 55 °C 460 A (440 V) 55 °C 460 A (380 / 400 V) 55 °C 460 A (500 V) 55 °C 460 A |
| Rated Operational Power AC-3 (P _e): | (500 V) 315 kW (690 V) 355 kW (220 / 230 / 240 V) 132 kW (380 / 400 V) 250 kW (440 V) 250 kW (415 V) 250 kW |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1: | 8 x le AC-3 |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1: | 10 x le AC-3 |
| Short-Circuit Protective Devices: | gG Type Fuses 800 A |
| Rated Short-time Withstand Current (I _{cw}): | at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 840 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 4400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 4600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2500 A |
| Maximum Breaking Capacity: | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 5000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 4500 A |
| Maximum Electrical Switching Frequency: | AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 60 cycles per hour |

| Rated Operational Current DC-1 (I _e): | (600 V) 3 Poles in Series, 40 °C 700 A (110 V) 1-Pole, 40 °C 700 A (110 V) 2 Poles in Series, 40 °C 700 A (220 V) 3 Poles in Series, 40 °C 700 A |
|--|---|
| Rated Operational Current DC-3 (I _e): | (600 V) 3 Poles in Series, 40 °C 700 A (110 V) 1-Pole, 40 °C 700 A (110 V) 2 Poles in Series, 40 °C 700 A (220 V) 3 Poles in Series, 40 °C 700 A |
| Rated Operational Current DC-5 (I _e): | (600 V) 3 Poles in Series, 40 °C 700 A (110 V) 1-Pole, 40 °C 700 A (110 V) 2 Poles in Series, 40 °C 700 A (220 V) 3 Poles in Series, 40 °C 700 A |
| 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}): | Main Circuit 8 kV |
| Mechanical Durability: | 5 million |
| Maximum Mechanical Switching Frequency: | 300 cycles per hour |
| Coil Operating Limits: | (acc. to IEC 60947-4-1)0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) °C |
| Rated Control Circuit Voltage (U _c): | DC Operation 24 60 V |
| Coil Consumption: | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 900 V·A Holding at Max. Rated Control Circuit Voltage DC 5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 900 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 900 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A |
| Operate Time: | Between Coil Energization and NO Contact Closing 50 120 ms Between Coil De-energization and NO Contact Opening 48 58 ms Between Coil De-energization and NC Contact Closing 45 55 ms Between Coil Energization and NC Contact Opening 45 115 ms |
| Connecting Capacity-Main Circuit: | Rigid Al-Cable 2x240 mm² Bar 47 mm Rigid Cu-Cable 240 mm² |
| Connecting Capacity-Auxiliary Circuit: | Solid 2x14 mm² Flexible with Insulated Ferrule 2x0.752.5 mm² Stranded 2x14 mm² Flexible 1x0.752.5 mm² Flexible with Ferrule 2x0.752.5 mm² |
| 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 IP00 |
| Terminal Type: | Main Circuit: Bars |
| | |

Environmental

| Ambient Air Temperature: | Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25+50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40+70 °C Close to Contactor for Storage -40+70 °C |
|---|--|
| Maximum Operating Altitude Permissible: | 3000 m |
| Resistance to Shock acc. to IEC 60068-2-27: | Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: C1 5 g Shock Direction: B2 5 g Shock Direction: B1 5 g |
| RoHS Status: | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Technical UL/CSA

| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V |
|-----------------------------------|---|
| General Use Rating UL/CSA: | (600 V AC) 650 A |
| Horsepower Rating UL/CSA: | (208 V AC) Three Phase 150 Hp (440 480 V AC) Three Phase 400 Hp (550 600 V AC) Three Phase 500 Hp (220 240 V AC) Three Phase 200 Hp (200 V AC) Three Phase 150 Hp |

Certificates and Declarations (Document Number)

| BV Certificate: | 11727/C0 BV |
|---------------------------------|----------------------|
| CB Certificate: | SE-69485 |
| CCC Certificate: | CQC_2007010304256683 |
| CSA Certificate: | 306711 |
| Declaration of Conformity - CE: | 1SFA1-65 |
| DNV Certificate: | DNV_E-10966 |
| GL Certificate: | GL_42988-02HH |
| LOVAG Certificate: | SE-0115087 |
| LR Certificate: | LR_13_20009 |
| RINA Certificate: | ELE060313XG/002 |
| RoHS Information: | 1SFC101055D0202 |

Classifications

| E-nummer: | 3228342 |
|-----------|---|
| ETIM 5: | EC000066 - Magnet contactor, AC-switching |
| UNSPSC: | 39121529 |