



Representative Image

Alternate Catalog No. AF460-30-11-68 Catalog No. 1SFL597001R6811

Description: AF460-30-11 24-60V DC Contactor

UPC No 7320500217887

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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

Descriptors

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| Category | AF Contactors |
| Block Contactor Type | 3-Pole Contactor |

Specifications

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| Product Type | AF |
| General Use Rating UL/CSA | (600 V AC) 650 A |
| Object Classification Code | Q |
| Terminal Type | Main Circuit: Bars |
| Rated Control Circuit Voltage | DC Operation 24 ... 60 V |
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| Number of Auxiliary Contacts NO | 1 |
| RoHS Status | Following EU Directive 2011/65/EU |
| Reference Ambient Air Temperature | Close to Contactor for Storage -40 ... +70 °C 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 |
| Rated Operational Voltage | Main Circuit 1000 V |
| Resistance to Shock acc. to IEC 60068-2-27 | Shock Direction: A 5 K40 Shock Direction: B1 5 K40 Shock Direction: B2 5 K40 Shock Direction: C1 5 K40 Shock Direction: C2 5 K40 |
| Number of Auxiliary Contacts NC | 1 |
| Maximum Operating Altitude Permissible | 3000 m |
| Rated Operational Current AC-1 | (1000 V) 40 °C 700 A (1000 V) 55 °C 600 A (1000 V) 70 °C 480 A (690 V) 40 °C 700 A (690 V) 55 °C 600 A (690 V) 70 °C 480 A |

Specifications

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| Rated Operational Power AC-3 | (1000 V) 280 KWT (220 / 230 / 240 V) 132 KWT (380 / 400 V) 250 KWT (415 V) 250 KWT (440 V) 250 KWT (500 V) 315 KWT (690 V) 355 KWT |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x I _e AC-3 |
| Horsepower Rating UL/CSA | (200 V AC) Three Phase 150 hp (208 V AC) Three Phase 150 hp (220 ... 240 V AC) Three Phase 200 hp (440 ... 480 V AC) Three Phase 400 hp (550 ... 600 V AC) Three Phase 500 hp |
| Conventional Free-air Thermal Current | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 700 A |
| Rated Frequency | Main Circuit 60 Hz Main Circuit 50Hz |
| Rated Short-time Withstand Current | 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 15 min 840 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2500 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 30 s 3100 A |
| Rated Operational Current AC-3 | (1000 V) 55 °C 200 A (220 / 230 / 240 V) 55 °C 460 A (380 / 400 V) 55 °C 460 A (415 V) 55 °C 460 A (440 V) 55 °C 460 A (500 V) 55 °C 460 A (690 V) 55 °C 400 A |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x I _e AC-3 |
| Rated Operational Current DC-1 | (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 (600 V) 3 Poles in Series, 40 °C 700 A |
| Maximum Electrical Switching Frequency | AC-1 300 cycles per hour AC-2 / AC-4 60 cycles per hour AC-3 300 cycles per hour |
| Rated Operational Current DC-5 | (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 (600 V) 3 Poles in Series, 40 °C 700 A |
| Short-Circuit Protective Devices | gG Type Fuses 800 A |
| Rated Insulation Voltage | acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 5000 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 4500 A |
| Mechanical Durability | 5 million |
| Rated Operational Current DC-3 | (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 (600 V) 3 Poles in Series, 40 °C 700 A |
| Coil Operating Limits | (acc. to IEC 60947-4-1) 0.85 x U _c Min. ... 1.1 x U _c Max. (at θ ≤ 70 °C) |
| Maximum Mechanical Switching Frequency | 300 cycles per hour |
| Operate Time | Between Coil De-energization and NC Contact Closing 45 ... 55 ms Between Coil De-energization and NO Contact Opening 48 ... 58 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms Between Coil Energization and NO Contact Closing 50 ... 120 ms |
| Secondary Rated Impulse Withstand Voltage | Main Circuit 8 kV |
| Connecting Capacity Main Circuit | Bar 47 mm Rigid Al-Cable 2x240 m ² Rigid Cu-Cable 240 m ² |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V - A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V - A Holding at Max. Rated Control Circuit Voltage DC 5 V - A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 900 V - A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 900 V - A Pull-in at Max. Rated Control Circuit Voltage DC 900 V - A |

Specifications

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| 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 |
| Connecting Capacity Auxiliary Circuit | Flexible 1x0.75 ... 2.5 m ² Stranded 2 x 1 4 m ² |
| Screw Terminal Type | Main Circuit: Bars |

Classifications

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| ETIM 4 | EC000066 - Magnet contactor, AC-switching |
| ETIM 6.0 | EC000066 - Power contactor, AC switching |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |
| ETIM 5.0 | EC000066 - Magnet contactor, AC-switching |

Dimensions

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| Product Net Weight | 10.6 kg |
| Product Net Depth / Length | 216 mm |
| Product Net Width | 186 mm |
| Product Net Height | 278 mm |

Package Information

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| Package Level 1 Width | 280 mm |
| Package Level 1 Height | 310 mm |
| Package Level 1 Depth / Length | 375 mm |
| Package Level 1 EAN | 7320500217887 |
| Package Level 1 Units | box 1 piece |
| Package Level 1 Gross Weight | 12 kg |

Ordering

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