

PRODUCT-DETAILS

AF460-30-11-70

AF460-30-11 100-250V 50/60Hz / 100-250V DC Contactor



General Information

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| Extended Product Type | AF460-30-11-70 |
| Product ID | 1SFL597001R7011 |
| EAN | 7320500217658 |
| Catalog Description | AF460-30-11 100-250V 50/60Hz / 100-250V DC Contactor |
| Long Description | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC |

Classifications

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|------------------------------------|---|
| Object Classification Code | Q |
| 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 |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |
| E-Number (Norway) | 4115292 |
| E-Number (Sweden) | 3228346 |

Container Information

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| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 280 mm |
| Package Level 1 Depth / Length | 375 mm |
| Package Level 1 Height | 310 mm |
| Package Level 1 Gross Weight | 12 kg |
| Package Level 1 EAN | 7320500217658 |

Certificates and Declarations (Document Number)

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|--------------------------------|----------------------|
| ABS Certificate | 15-LD1408622-PDA |
| BV Certificate | BV_13409-C0BV |
| CB Certificate | SE-82316 |
| CCC Certificate | CQC_2007010304256683 |
| CCS Certificate | GB14T00030 |
| CSA Certificate | 306711 |
| cUL Certificate | 20121207-E36588 |
| Declaration of Conformity - CE | 2CMT2015-005436 |
| DNV Certificate | DNV_E-10966 |
| DNV GL Certificate | TAE00001W1 |
| EAC Certificate | 9AKK107046A8618 |
| Environmental Information | 1SFC101004D0202 |
| GL Certificate | GL_42988-02HH |
| Instructions and Manuals | 1SFC380023-en |
| LOVAG Certificate | FI102 |
| LR Certificate | 16-20064 |
| PRS Certificate | TE_2092_880423_16 |
| RINA Certificate | ELE060313XG_002 |
| RMRS Certificate | 9AKK107045A6978 |
| RoHS Information | 2CMT2015-005436 |
| UL Listing Card | UL_E36588 |

Technical UL/CSA

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| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| General Use Rating UL/CSA | (600 V AC) 650 A |
| 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 |

Environmental

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| 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 |
| Maximum Operating Altitude Permissible | 3000 m |
| 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 |
| RoHS Status | Following EU Directive 2011/65/EU |

Technical

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| 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 50/60 Hz |
| Conventional Free-air Thermal Current (I_{th}) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 700 A |
| Rated Operational Current AC-1 (I_e) | (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 |
| Rated Operational Current AC-3 (I_e) | (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 Operational Power AC-3 (P_e) | (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 Ie AC-3 |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x Ie 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 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 |

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| 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 |
| 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-1 (I _e) | (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 |
| Rated Operational Current DC-3 (I _e) | (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 |
| Rated Operational Current DC-5 (I _e) | (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 |
| 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 U _c Min. ... 1.1 x U _c Max. (at θ ≤ 70 °C) |
| Rated Control Circuit Voltage (U _c) | 50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V |
| 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 955 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 955 V·A Pull-in at Max. Rated Control Circuit Voltage DC 895 V·A |
| 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 |
| Connecting Capacity Main Circuit | Bar 47 mm Rigid Al-Cable 2x240 m ² Rigid Cu-Cable 240 m ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 2x 0.75 ... 2.5 Flexible with Insulated Ferrule 2x 0.75 ... 2.5 Flexible 2x0.75 ... 2.5 m ² Solid 2 x 1 ... 4 m ² Stranded 2 x 1 ... 4 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 IP00 |
| Terminal Type | Main Circuit: Bars |

Dimensions

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

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals | 1SFC380023-en |
| Dimension Diagram | 53540919-59 |

Ordering

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

Categories

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

