

PRODUCT-DETAILS

AF750-30-11-69

AF750-30-11 48-130V 50/60Hz / 48-130V DC Contactor



General Information

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|-----------------------|---|
| Extended Product Type | AF750-30-11-69 |
| Product ID | 1SFL637001R6911 |
| EAN | 7320500220405 |
| Catalog Description | AF750-30-11 48-130V 50/60Hz / 48-130V 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 48-130 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) | 4115299 |
| E-Number (Sweden) | 3228364 |

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 | 15 kg |
| Package Level 1 EAN | 7320500220405 |

Certificates and Declarations (Document Number)

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|--------------------------------|----------------------|
| ABS Certificate | 15-LD1408622-PDA |
| BV Certificate | BV_13409-C0BV |
| CB Certificate | SE-82863 |
| CCC Certificate | CQC_2007010304256684 |
| CCS Certificate | GB14T00030 |
| CSA Certificate | 306712-1 |
| cUL Certificate | UL_20111101-E36588 |
| Declaration of Conformity - CE | 2CMT2019-005796 |
| DNV Certificate | DNV_E-10966 |
| DNV GL Certificate | TAE00001W1 |
| EAC Certificate | 9AKK107046A8618 |
| Environmental Information | 1SFC101005D0201 |
| GL Certificate | GL_42988-02HH |
| Instructions and Manuals | 1SFC380023-en |
| LOVAG Certificate | SE-0114206 |
| LR Certificate | 16-20064 |
| PRS Certificate | TE_2092_880423_16 |
| RINA Certificate | ELE060313XG_002 |
| RMRS Certificate | 9AKK107045A6978 |
| RoHS Information | 2CMT2019-005796 |
| UL Listing Card | UL_E36588 |

Technical UL/CSA

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|----------------------------------|---|
| Maximum Operating Voltage UL/CSA | Main Circuit 1000 V |
| General Use Rating UL/CSA | (600 V AC) 900 A (1000 V AC) 900 A |
| Horsepower Rating UL/CSA | (200 V AC) Three Phase 250 hp (208 V AC) Three Phase 250 hp (220 ... 240 V AC) Three Phase 300 hp (440 ... 480 V AC) Three Phase 600 hp (550 ... 600 V AC) Three Phase 700 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 2015/863 July 22, 2019 (RoHS 3)

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 $q = 40^\circ\text{C}$ 1050 A |
| Rated Operational Current AC-1 (I_e) | (1000 V) 40°C 1000 A (1000 V) 55°C 875 A (1000 V) 70°C 720 A (690 V) 40°C 1050 A (690 V) 55°C 875 A (690 V) 70°C 720 A |
| Rated Operational Current AC-3 (I_e) | (1000 V) 55°C 300 A (220 / 230 / 240 V) 55°C 750 A (380 / 400 V) 55°C 750 A (415 V) 55°C 750 A (440 V) 55°C 750 A (500 V) 55°C 750 A (690 V) 55°C 650 A |
| Rated Operational Power AC-3 (P_e) | (1000 V) 400 kW (220 / 230 / 240 V) 220 kW (380 / 400 V) 400 kW (415 V) 425 kW (440 V) 450 kW (500 V) 520 kW (690 V) 600 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 1000 A |
| Rated Short-time Withstand Current (I_{cw}) | at 40°C Ambient Temp, in Free Air, from a Cold State 10 s 6400 A at 40°C Ambient Temp, in Free Air, from a Cold State 15 min 1300 A at 40°C Ambient Temp, in Free Air, from a Cold State 1 min 3500 A at 40°C Ambient Temp, in Free Air, from a Cold State 1 s 7000 A at 40°C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A |
| Maximum Breaking Capacity | $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 7500 A $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 7000 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 1050 A (110 V) 2 Poles in Series, 40°C 1050 A (220 V) 3 Poles in Series, 40°C 1050 A (600 V) 3 Poles in Series, 40°C 1050 A (850 V) 3 Poles in Series, 40°C 1050 A |
| Rated Operational Current DC-3 (I_e) | (110 V) 1-Pole, 40°C 1050 A (110 V) 2 Poles in Series, 40°C 1050 A (220 V) 3 Poles in Series, 40°C 1050 A (600 V) 3 Poles in Series, 40°C 1050 A (850 V) 3 Poles in Series, 40°C 1050 A |
| Rated Operational Current DC-5 (I_e) | (110 V) 1-Pole, 40°C 1050 A (110 V) 2 Poles in Series, 40°C 1050 A (220 V) 3 Poles in Series, 40°C 1050 A (600 V) 3 Poles in Series, 40°C 1050 A (850 V) 3 Poles in Series, 40°C 1050 A |
| Rated Insulation Voltage | acc. to UL/CSA 600 V |

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|---|---|
| (U _i) | 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 | 3 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 $\theta \leq 70$ °C) |
| Rated Control Circuit Voltage (U _c) | 50 Hz 48 ... 130 V 60 Hz 48 ... 130 V DC Operation 48 ... 130 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 1100 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1100 V·A Pull-in at Max. Rated Control Circuit Voltage DC 1020 V·A |
| Operate Time | Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil De-energization and NO Contact Opening 53 ... 73 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 52 mm Rigid Al-Cable 3x185 m ² Rigid Cu-Cable 300 m ² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 m ² Solid 2 x 1 ... 4 m ² Stranded 1 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 | 210 mm |
| Product Net Depth / Length | 242 mm |
| Product Net Height | 283 mm |
| Product Net Weight | 13.6 kg |

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals | 1SFC380023-en |
| Dimension Diagram | 53540919-60 |

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

