

AF400-30-11-70



AF400-30-11 100-250V 50/60Hz / 100-250V DC Contactor

Información General

| | |
|-----------------------|---|
| Extended Product Type | AF400-30-11-70 |
| Product ID | 1SFL577001R7011 |
| EAN | 7320500217665 |
| Catalog Description | AF400-30-11 100-250V 50/60Hz / 100-250V DC Contactor |
| Long Description | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC |

Clasificación

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

Descargas Populares

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

Dimensiones

| | |
|----------------------------|--------|
| Product Net Width | 186 mm |
| Product Net Depth / Length | 216 mm |
| Product Net Height | 278 mm |
| Product Net Weight | 12 kg |

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 50/60 Hz |
| Conventional Free-air Thermal Current (I_{th}) | acc. to IEC 60947-4-1, Open Contactors $q = 40$ °C 600 A |
| Rated Operational Current AC-1 (I_e) | (690 V) 55 °C 500 A (690 V) 40 °C 600 A |

| | |
|--|--|
| | (1000 V) 40 °C 600 A (1000 V) 55 °C 500 A (690 V) 70 °C 400 A (1000 V) 70 °C 400 A |
| Rated Operational Current AC-3 (I_e) | (1000 V) 55 °C 155 A (690 V) 55 °C 350 A (415 V) 55 °C 400 A (220 / 230 / 240 V) 55 °C 400 A (440 V) 55 °C 400 A (380 / 400 V) 55 °C 400 A (500 V) 55 °C 400 A |
| Rated Operational Power AC-3 (P_e) | (220 / 230 / 240 V) 110 kW (380 / 400 V) 200 kW (415 V) 220 kW (440 V) 220 kW (500 V) 250 kW (690 V) 315 kW (1000 V) 220 kW |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x I_e AC-3 |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x I_e AC-3 |
| Short-Circuit Protective Devices | gG Type Fuses 630 A |
| Rated Short-time Withstand Current (I_{cw}) | 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 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 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 $I_e > 100$ A) at 440 V 4000 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 3500 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 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A |
| Rated Operational Current DC-3 (I_e) | (600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A |
| Rated Operational Current DC-5 (I_e) | (600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 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 $\theta \leq 70$ °C) °C |
| Rated Control Circuit Voltage (U_c) | 60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V |
| Coil Consumption | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 955 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 895 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 955 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 mm ² Bar 47 mm |

| | |
|---------------------------------------|--|
| | Rigid Cu-Cable 240 mm ² |
| Connecting Capacity Auxiliary Circuit | Solid 2 x 1 ... 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm ² Stranded 2 x 1 ... 4 mm ² Flexible 2x0.75 ... 2.5 mm ² Flexible with Ferrule 2 x 0.75 ... 2.5 mm 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 |

Ambiente

| | |
|--|---|
| 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: B2 5 g Shock Direction: C1 5 g Shock Direction: B1 5 g |
| RoHS Status | Following EU Directive 2011/65/EU |

Technical UL/CSA

| | |
|----------------------------------|---|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| General Use Rating UL/CSA | (600 V AC) 550 A |
| Horsepower Rating UL/CSA | (208 V AC) Three Phase 125 Hp (440 ... 480 V AC) Three Phase 350 Hp (550 ... 600 V AC) Three Phase 400 Hp (220 ... 240 V AC) Three Phase 150 Hp (200 V AC) Three Phase 125 Hp |

Certificados y Declaraciones (Número de Documento)

| | |
|--------------------------------|----------------------|
| ABS Certificate | 15-LD1408622-PDA |
| BV Certificate | BV_13409-C0BV |
| CB Certificate | SE-82316 |
| CCC Certificate | CQC_2007010304256683 |
| CCS Certificate | GB14T00030 |
| cUL Certificate | 20121207-E36588 |
| Declaration of Conformity - CE | 2CMT2019-005796 |
| 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 | SE-0146190 |
| LR Certificate | 16-20064 |
| PRS Certificate | TE_2092_880423_16 |
| RINA Certificate | ELE060313XG_002 |
| RMRS Certificate | 9AKK107045A6978 |
| RoHS Information | 2CMT2016-005489 |

UL Listing Card

UL_E36588

Información de Embalaje

| | |
|--------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 260 mm |
| Package Level 1 Depth / Length | 250 mm |
| Package Level 1 Height | 350 mm |
| Package Level 1 Gross Weight | 12 kg |
| Package Level 1 EAN | 7320500217665 |

Clasificaciones

| | |
|----------------------------|---|
| 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 |
| E-Number (Norway) | 4115288 |
| E-Number (Sweden) | 3228336 |

Where Used (as a spare part for "Products")

| Identifier | Description | Quantity | Unit Of Measure |
|--------------------|--------------------------|----------|-----------------|
| FC-0460-0240 | No Description Available | 1 | piece |
| FC-0460-0300 | No Description Available | 1 | piece |
| FC-0460-0399 | No Description Available | 1 | piece |
| FC-0460-0500 DEV 1 | No Description Available | 1 | piece |

Product specific part data

| Product | Category | Drive Part Category |
|--------------------|----------|------------------------------|
| FC-0460-0240 | MoCon | Switches, Relays, Contactors |
| FC-0460-0300 | MoCon | Switches, Relays, Contactors |
| FC-0460-0399 | MoCon | Switches, Relays, Contactors |
| FC-0460-0500 DEV 1 | MoCon | Switches, Relays, Contactors |

Categorías

Productos y sistemas de baja tensión → Aparatos de control → Contactores → Contactores

Convertidores de frecuencia → Convertidores de frecuencia de baja tensión de CA → Convertidores de frecuencia históricos → MoCon

