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PRODUCT-DETAILS

AF400-30-11-71 AF400-30-11 250-500V 50/60Hz / 250-500V DC Contactor



| General Information | |
|-----------------------|--|
| Extended Product Type | AF400-30-11-71 |
| Product ID | 1SFL577001R7111 |
| EAN | 7320500250006 |
| Catalog Description | AF400-30-11 250-500V 50/60Hz / 250-500V DC Contactor |
| Long Description | The AF400-30-11-71 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 200 kW / 400 V AC (AC-3) or 350 hp / 480 V UL and switching power circuits up to 600 A (AC-1) or 550 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of |

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

Popular Downloads

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| Data Sheet, Technical Information | 1SBC100192C0206 | |
|---|--|--|
| Information Instructions and Manuals | 1SFC380023-en | |
| CAD Dimensional | 2CDC001079B0201 | |
| Drawing | | |
| Dimension Diagram | 53540919-59 | |
| Dimensions | | |
| Product Net Width | 186 mm | |
| Product Net Depth / Length | 216 mm | |
| Product Net Height | 278 mm | |
| Product Net Weight | 10.6 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) Conventional Free-air | Main Circuit 50 / 60 Hz acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 600 A | |
| Thermal Current (I _{th}) | acc. to the observer, Open Contactors O = 40 C 000 A | |
| Rated Operational Current AC-1 (I _e) | (1000 V) 40 °C 600 A (1000 V) 55 °C 500 A (1000 V) 70 °C 400 A (690 V) 40 °C 600 A (690 V) 55 °C 500 A | |
| Rated Operational Current AC-3 (I _e) | (690 V) 70 °C 400 A (415 V) 55 °C 400 A (440 V) 55 °C 400 A (500 V) 55 °C 400 A (690 V) 55 °C 350 A (1000 V) 55 °C 155 A (380 / 400 V) 55 °C 400 A | |
| Rated Operational Power AC-3 (P _e) | (220 / 230 / 240 V) 55 C 400 A (415 V) 220 kW (440 V) 220 kW (500 V) 250 kW (690 V) 315 kW (1000 V) 220 kW (380 / 400 V) 200 kW (220 / 230 / 240 V) 110 kW | |
| Rated Breaking Capacity AC-3 | 8 x le AC-3 | |
| Rated Making Capacity AC-3 | 10 x le AC-3 | |
| Short-Circuit Protective Devices | gG Type Fuses 630 A | |
| Rated Short-time Withstand Current Low Voltage (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 | |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 4000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 3500 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 600 A (110 V) 2 Poles in Series, 40 °C 600 A | |
| @ 2024 ADD All wights years was | 0004/04/40 | |

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| | (220 V) 3 Poles in Series, 40 °C 600 A |
|--|---|
| | (600 V) 3 Poles in Series, 40 °C 600 A |
| Rated Operational Current DC-3 (I _e) | (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 |
| | (600 V) 3 Poles in Series, 40 °C 600 A |
| Rated Operational Current DC-5 (I _e) | (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 (600 V) 3 Poles in Series, 40 °C 600 A |
| Rated Insulation Voltage (U_i) | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 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 Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) |
| Rated Control Circuit Voltage (U _c) | 50 Hz 250 500 V 60 Hz 250 500 V DC Operation 250 500 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 7.5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 950 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 950 V·A Pull-in at Max. Rated Control Circuit Voltage DC 885 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 mm² Rigid Al-Cable 240 mm² Rigid Cu-Cable 240 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 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 |
| | |
| Technical UL/CSA | |
| Maximum Operating Voltage UL/CSA | Main Circuit 1000 V |
| General Use Rating UL/CSA | (600 V AC) 550 A |
| Horsepower Rating UL/CSA | (200 V AC) Three Phase 125 hp (208 V AC) Three Phase 125 hp (220 240 V AC) Three Phase 150 hp (440 480 V AC) Three Phase 350 hp (550 600 V AC) Three Phase 400 hp |
| | |
| 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 | Without Derating 3000 m |
| Resistance to Shock acc. to IEC 60068-2-27 | Shock Direction: A 5 g Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g |

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| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
|---|--|
| REACH Declaration | 2CMT2021-006202 |
| RoHS Information | 2CMT2021-006277 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control Act - TSCA | 2CMT2023-006525 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

| Circular Value | |
|--|---|
| ABB EcoSolutions | Yes |
| Circular Design Principles Recyclability Rate | Design for Closing Resource Loops - Standard EN45555 - 63.1 % |
| Group Waste to Landfill Target | Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility |
| Improved Resource Efficiency for Customers | Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line |
| Sustainable Material Content | Recycled Metal - 37 % |

| Eco Transparency | |
|-----------------------|-----------------|
| Environmental Product | 1SFC100105D0201 |
| Declaration - EPD | |

| Certificates and Declarations | |
|--|---|
| ABS Certificate | 15-LD1408622-PDA |
| BV Certificate | BV_13409-C0BV |
| CB Certificate | SE-82316 |
| CCS Certificate | GB14T00030 |
| CQC Certificate | CQC2007010304256683 CQC2011010304514755 |
| Declaration of Conformity - CCC | 2020980304001300 2020980304001081 |
| Declaration of Conformity - CE | 2CMT2019-005796 |
| Declaration of Conformity - UKCA | 2CMT2020-006118 |
| DNV Certificate | DNV_E-10966 |
| DNV GL Certificate | TAE00001W1 |
| EAC Certificate | 0.41414.070.404.004.0 |
| EAC Certificate | 9AKK107046A8618 |
| GL Certificate | 9AKK 107046A8618 GL 42988-02HH |
| | |
| GL Certificate | GL 42988-02HH |
| GL Certificate LOVAG Certificate | GL 42988-02HH SE-0146190 |
| GL Certificate LOVAG Certificate LR Certificate | GL 42988-02HH SE-0146190 16-20064 |
| GL Certificate LOVAG Certificate LR Certificate PRS Certificate | GL 42988-02HH SE-0146190 16-20064 TE_2092_880423_16 |
| GL Certificate LOVAG Certificate LR Certificate PRS Certificate RINA Certificate | GL 42988-02HH SE-0146190 16-20064 TE_2092_880423_16 ELE060313XG_002 |

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 | 7320500250006 |

| Classifications | |
|---------------------------------------|---|
| 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 |
| ETIM 8 | EC000066 - Power contactor, AC switching |
| eClass | V11.0 : 27371003 |
| UNSPSC | 39121529 |
| IDEA Granular Category Code (IGCC) | 4758 >> lec Contactors |
| E-Number (Finland) | 3709250 |
| E-Number (Norway) | 4115289 |
| E-Number (Sweden) | 3228335 |

| Accessories | | | | |
|-----------------|----------------------|----------|----------|--------------------|
| Identifier | Description | Туре | Quantity | Unit Of Measure |
| 1SFN170801R1001 | RU19/120 LVRT-Module | RU19/120 | 1 | piece |
| 1SFN170801R1002 | RU19/240 LVRT-Module | RU19/240 | 1 | piece |

Categories

