

PRODUCT-DETAILS

AF400-30-11-68 AF400-30-11 24-60V DC Contactor



| Extended Product Type | AF400-30-11-68 |
|-----------------------|---|
| Product ID | 1SFL577001R6811 |
| EAN | 7320500217825 |
| Catalog Description | AF400-30-11 24-60V DC Contacto |
| Long Description | The AF400-30-11-68 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 (24-60 V 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 accessories |

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

Popular Downloads

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| Data Sheet, Technical Information | 1SBC100192C0206 |
|--------------------------------------|-----------------|
| Instructions and Manuals | 1SFC380023-en |
| CAD Dimensional Drawing | 2CDC001079B0201 |
| 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) | Main Circuit 50 / 60 Hz |
| Conventional Free-air Thermal Current (I _{th}) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 600 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 (690 V) 70 °C 400 A |
| Rated Operational Current AC-3 (I _e) | (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 (220 / 230 / 240 V) 55 °C 400 A |
| Rated Operational Power AC-3 (P _e) | (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 |

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Short-Circuit Protective gG Type Fuses 630 A Devices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 4400 A Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 840 A Voltage (I_{cw}) 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 cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 4000 A Maximum Breaking Capacity cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 3500 A Maximum Electrical (AC-1) 300 cycles per hour Switching Frequency (AC-2 / AC-4) 60 cycles per hour (AC-3) 300 cycles per hour Rated Operational Current (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A DC-1 (I_e) (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A Rated Operational Current (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A DC-3 (I_) (220 V) 3 Poles in Series, 40 °C 600 A (600 V) 3 Poles in Series, 40 °C 600 A Rated Operational Current (110 V) 1-Pole, 40 °C 600 A DC-5 (I_) (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 acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V (U_i) Rated Impulse Withstand Main Circuit 8 kV Voltage (U_{imp}) Mechanical Durability 3 million Maximum Mechanical 300 cycles per hour Switching Frequency **Coil Operating Limits** (acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C) Rated Control Circuit DC Operation 24 ... 60 V Voltage (U_c) **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 **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 Bar 47 mm² Circuit Rigid Al-Cable 2x240 mm² Rigid Cu-Cable 240 mm² **Connecting Capacity** Flexible with Ferrule 2x 0.75 ... 2.5 mm² Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm² Flexible 2x0.75 ... 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 Main Circuit: Bars Terminal Type

| 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 |
| Material Compliance | |
| Material Compliance Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| Conflict Minerals Reporting Template | 9AKK108467A5658 2CMT2021-006202 |
| Conflict Minerals Reporting Template (CMRT) | |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration | 2CMT2021-006202 |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control | 2CMT2021-006202 2CMT2021-006277 |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525 |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525 Business To Business |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Circular Value | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Circular Value ABB EcoSolutions Circular Design Principles | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) Yes |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Circular Value ABB EcoSolutions Circular Design Principles Recyclability Rate | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) Yes Design for Closing Resource Loops - Standard EN45555 - 63.1 % 1SFC100112M0001 Non-hazardous waste is sent to a landfill, where there is no alternative option |
| Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Circular Value ABB EcoSolutions Circular Design Principles Recyclability Rate End of Life Instructions Group Waste to Landfill | 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) Yes Design for Closing Resource Loops - Standard EN45555 - 63.1 % 1SFC100112M0001 |

Eco Transparency

Environmental Product Declaration - EPD 1SFC100105D0201

| ABS Certificate | 15-LD1408622-PD/ |
|-------------------------------------|--------------------------------------|
| BV Certificate | BV_13409-C0B |
| CB Certificate | SE-82316 |
| CCS Certificate | GB14T0003(|
| 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 | 9AKK107046A8618 |
| GL Certificate | GL_42988-02HF |
| LOVAG Certificate | SE-0146190 |
| LR Certificate | 16-20064 |
| PRS Certificate | TE_2092_880423_16 |
| RINA Certificate | ELE060313XG_002 |
| RMRS Certificate | 9AKK107045A6978 |
| TÜV Certificate | MHM-EST-7.700177886 |
| UL Certificate | 20121207-E36588 |
| UL Listing Card | UL_E36588 |
| Container Information | |
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 280 mr |
| Package Level 1 Depth / Length | 375 mr |
| Package Level 1 Height | 310 mr |
| Package Level 1 Gross Weight | 12 kg |
| Package Level 1 EAN | 7320500217825 |
| Classifications | |
| Object Classification Code | C |

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| 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) | 3709256 |
| E-Number (Norway) | 4115286 |
| E-Number (Sweden) | 3228332 |

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors \rightarrow AF Contactors \rightarrow AF400

