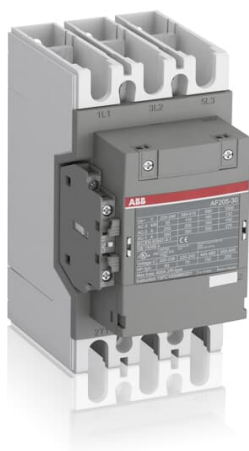


PRODUCT-DETAILS

# AF205-30-11-11

## AF205-30-11-11 Contactor



### General Information

|                       |                          |
|-----------------------|--------------------------|
| Extended Product Type | AF205-30-11-11           |
| Product ID            | 1SFL527002R1111          |
| EAN                   | 7320500480540            |
| Catalog Description   | AF205-30-11-11 Contactor |

|                  |  |
|------------------|--|
| Long Description | <p>The AF205-30-11-11 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 110 kW / 400 V AC (AC-3) or 150 hp / 480 V UL and switching power circuits up to 350 A (AC-1) or 300 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (24-60 V 50/60 Hz and 20-60 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.</p> |
|------------------|--|

### Ordering

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

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
|-----------------------------------|-----------------|

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 1SFC100008M0201 |
| Dimension Diagram        | 1SFB535001G1056 |

## Dimensions

|                               |        |
|-------------------------------|--------|
| Product Net Width             | 105 mm |
| Product Net Depth /<br>Length | 152 mm |
| Product Net Height            | 196 mm |
| Product Net Weight            | 2.4 kg |

## Technical

|   |  |
|---|--|
| Number of Main Contacts<br>NO                             | 3  |
| Number of Main Contacts<br>NC                             | 0  |
| Number of Auxiliary<br>Contacts NO                        | 1  |
| Number of Auxiliary<br>Contacts NC                        | 1  |
| Rated Operational Voltage                                 | Main Circuit 1000 V  |
| Rated Frequency (f)                                       | Main Circuit 50 / 60 Hz  |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ )     | acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C}$ 350 A  |
| Rated Operational Current<br>AC-1 ( $I_e$ )               | (1000 V) 40 °C 275 A<br>(1000 V) 55 °C 250 A<br>(1000 V) 60 °C 250 A<br>(1000 V) 70 °C 200 A<br>(690 V) 40 °C 350<br>(690 V) 55 °C 300<br>(690 V) 70 °C 240  |
| Rated Operational Current<br>AC-3 ( $I_e$ )               | (415 V) 55 °C 205 A<br>(440 V) 55 °C 205 A<br>(500 V) 55 °C 186 A<br>(690 V) 55 °C 165 A<br>(1000 V) 55 °C 100 A<br>(380 / 400 V) 55 °C 205 A<br>(220 / 230 / 240 V) 55 °C 205   |
| Rated Operational Power<br>AC-3 ( $P_e$ )                 | (415 V) 110 kW<br>(440 V) 132 kW<br>(500 V) 132 kW<br>(690 V) 160 kW<br>(1000 V) 132 kW<br>(380 / 400 V) 110 kW<br>(220 / 230 / 240 V) 55 kW   |
| Rated Breaking Capacity<br>AC-3 acc. to IEC 60947-4-<br>1 | 8 x $I_e$ AC-3   |
| Rated Making Capacity<br>AC-3 acc. to IEC 60947-4-<br>1   | 10 x $I_e$ AC-3  |
| Short-Circuit Protective<br>Devices                       | gG Type Fuses 400 A  |
| Rated Short-time<br>Withstand Current ( $I_{cw}$ )        | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 A |

at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 A

|   |  |
|---|--|
| Maximum Breaking Capacity                     | cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 3500 A<br>cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 2500 A   |
| Maximum Electrical Switching Frequency        | (AC-1) 300 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 300 cycles per hour  |
| Rated Operational Current DC-1 ( $I_e$ )      | (110 V) 2 Poles in Series, 40 °C 275 A<br>(220 V) 3 Poles in Series, 40 °C 275 A   |
| Rated Operational Current DC-3 ( $I_e$ )      | (110 V) 2 Poles in Series, 40 °C 275 A<br>(220 V) 3 Poles in Series, 40 °C 275 A   |
| Rated Operational Current DC-5 ( $I_e$ )      | (110 V) 2 Poles in Series, 40 °C 275 A<br>(220 V) 3 Poles in Series, 40 °C 275 A   |
| Rated Insulation Voltage ( $U_i$ )            | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 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)  |
| Rated Control Circuit Voltage ( $U_c$ )       | 50 Hz 24 ... 60 V<br>60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V   |
| Coil Consumption                              | Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A<br>Holding at Max. Rated Control Circuit Voltage DC 2.5 W<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 165 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 165 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 205 W |
| Operate Time                                  | Between Coil De-energization and NO Contact Opening 37 ... 47 ms<br>Between Coil Energization and NO Contact Closing 25 ... 55 ms  |
| Connecting Capacity Main Circuit              | Flexible 2 x 50 ... 95 mm <sup>2</sup><br>Rigid Al-Cable 1 x 95 ... 185 mm <sup>2</sup><br>Rigid Cu-Cable 2 x 50 ... 120 mm <sup>2</sup>   |
| Connecting Capacity Auxiliary Circuit         | Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible 2x0.75 ... 2.5 mm <sup>2</sup><br>Solid 2 x 1 ... 4 mm <sup>2</sup><br>Stranded 2 x 1 ... 4 mm <sup>2</sup>   |
| Degree of Protection                          | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>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) 300 A   |
| Horsepower Rating UL/CSA         | (200 V AC) Three Phase 60 hp<br>(208 V AC) Three Phase 60 hp<br>(220 ... 240 V AC) Three Phase 75 hp<br>(440 ... 480 V AC) Three Phase 150 hp<br>(550 ... 600 V AC) Three Phase 200 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 | 3000 m  |
| RoHS Status                            | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019            |

## Certificates and Declarations (Document Number)

|                                    |  |
|------------------------------------|--|
| ABS Certificate                    | 14-LD1092198-PDA                           |
| BV Certificate                     | BV_36353_A0BV                              |
| CB Certificate                     | SE-82315                                   |
| CCS Certificate                    | GB14T00030                                 |
| CQC Certificate                    | CQC2014010304676685<br>CQC2014010304724672 |
| cUL Certificate                    | 20121023-E36588                            |
| Declaration of Conformity<br>- CCC | 2020980304001306<br>2020980304001071       |
| Declaration of Conformity<br>- CE  | 2CMT2015-005439                            |
| DNV Certificate                    | DNV_E-14043                                |
| DNV GL Certificate                 | DNV_E-14043                                |
| EAC Certificate                    | 9AKK107046A8618                            |
| Environmental Information          | 2CMT004732<br>1SAC200042H0004              |
| GL Certificate                     | GL_95072-14HH                              |
| Instructions and Manuals           | 1SFC100008M0201                            |
| KC Certificate                     | 9AKK107046A9912                            |
| LR Certificate                     | LR_14_70011(E1)                            |
| PRS Certificate                    | TE_2092_880423_16                          |
| RINA Certificate                   | ELE060313XG_002                            |
| RMRS Certificate                   | 9AKK107045A6978                            |
| RoHS Information                   | 2CMT2015-005439                            |
| UL Listing Card                    | UL_E36588                                  |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 160 mm        |
| Package Level 1 Depth / Length | 258 mm        |
| Package Level 1 Height         | 235 mm        |
| Package Level 1 Gross Weight   | 3 kg          |
| Package Level 1 EAN            | 7320500480540 |

## 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  |
| eClass                             | V11.0 : 27371003                          |
| UNSPSC                             | 39121529                                  |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors                        |
| E-Number (Finland)                 | 3706456                                   |
| E-Number (Norway)                  | 4117642                                   |
| E-Number (Sweden)                  | 3210140                                   |

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## Categories

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

