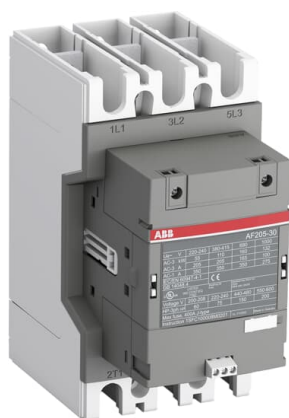


## PRODUCT-DETAILS

# AF205-30-00-33

## AF205-30-00-33 Contactor



### General Information

|                       |                          |
|-----------------------|--------------------------|
| Extended Product Type | AF205-30-00-33           |
| Product ID            | 1SFL527002R3300          |
| EAN                   | 7320500477021            |
| Catalog Description   | AF205-30-00-33 Contactor |

#### Long Description

The AF205-30-00-33 is a 3 pole - 1000 V IEC or 600 V UL contactor with 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 (100-250 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 accessories.

### Ordering

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

### Popular Downloads

|                                   |               |
|-----------------------------------|---------------|
| Data Sheet, Technical Information | 1SBC100192C02 |
|-----------------------------------|---------------|

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 105 mm   |
| Product Net Depth / Length | 169.5 mm |
| Product Net Height         | 196 mm   |
| Product Net Weight         | 2.4 kg   |

## Technical

|                                                    |                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts NO                         | 3                                                                                                                                                                                                                                                                                                                                                    |
| Number of Main Contacts NC                         | 0                                                                                                                                                                                                                                                                                                                                                    |
| Number of Auxiliary Contacts NO                    | 0                                                                                                                                                                                                                                                                                                                                                    |
| Number of Auxiliary Contacts NC                    | 0                                                                                                                                                                                                                                                                                                                                                    |
| Rated Operational Voltage                          | Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                  |
| Rated Frequency (f)                                | Main Circuit 50 Hz                                                                                                                                                                                                                                                                                                                                   |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 350 A                                                                                                                                                                                                                                                                                               |
| Rated Operational Current AC-1 ( $I_e$ )           | (1000 V) 40 °C 275 A<br>(1000 V) 60 °C 250 A<br>(1000 V) 70 °C 200 A<br>(690 V) 40 °C 350 A<br>(690 V) 70 °C 240 A                                                                                                                                                                                                                                   |
| Rated Operational Current 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 A                                                                                                                                                                     |
| Rated Operational Power 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 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 400 A                                                                                                                                                                                                                                                                                                                                  |
| Rated Short-time 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<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 A |
| Maximum Electrical Switching Frequency             | (AC-1) 300 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour                                                                                                                                                                                                                                                                                      |

|                                                        |                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                        | (AC-3) 300 cycles per hour                                                                                                                                                                                                                                                                                     |
| Rated Insulation Voltage<br>(U <sub>i</sub> )          | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                                      |
| Rated Impulse Withstand<br>Voltage (U <sub>imp</sub> ) | 8 kV                                                                                                                                                                                                                                                                                                           |
| Mechanical Durability                                  | 5 million                                                                                                                                                                                                                                                                                                      |
| Maximum Mechanical<br>Switching Frequency              | 300 cycles per hour                                                                                                                                                                                                                                                                                            |
| Coil Operating Limits                                  | (acc. to IEC 60947-4-1) U <sub>c</sub> (at $\theta \leq 70^\circ\text{C}$ )                                                                                                                                                                                                                                    |
| Rated Control Circuit<br>Voltage (U <sub>c</sub> )     | 50 Hz 100 ... 250 V<br>60 Hz 100 ... 250 V<br>DC Operation 100 ... 250 V                                                                                                                                                                                                                                       |
| Coil Consumption                                       | Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 190 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                                                                                                                                                                              |
| Degree of Protection                                   | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40                                                                                                                                                                                                                                              |
| Terminal Type                                          | Main Circuit: Bars                                                                                                                                                                                                                                                                                             |

## Technical UL/CSA

|                                     |                     |
|-------------------------------------|---------------------|
| Maximum Operating<br>Voltage UL/CSA | Main Circuit 1000 V |
| General Use Rating<br>UL/CSA        | (600 V AC) 300 A    |

## Environmental

|                                           |                                                                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                   | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -25 ... +55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -40 ... +70 °C<br>Close to Contactor for Storage -40 ... +70 °C |
| Maximum Operating<br>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                                   |
| CCC Certificate                    | CQC_2014010304676685                       |
| 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            | 7320500477021 |

## 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)                 | 3707504                                   |

## Categories

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

