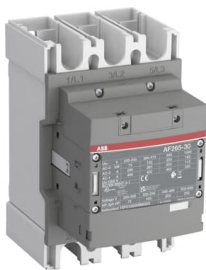




PRODUCT-DETAILS

# AF265-30-00-13

## AF265-30-00-13 Contactor



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF265-30-00-13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product ID            | 1SFL547002R1300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| EAN                   | 7320500481172                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Catalog Description   | AF265-30-00-13 Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Long Description      | The AF265-30-00-13 is a 3 pole - 1000 V IEC or 600 V UL contactor with Main Circuit Bars, controlling motors up to 132 kW / 400 V AC (AC-3) or 200 hp / 480 V UL and switching power circuits up to 400 A (AC-1) or 350 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. Includes Mounting kit, containing all neccessary screws, washers and sockets for connecting the terminals, and screws for mounting the device. |

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

## Popular Downloads

|                                            |                  |
|--------------------------------------------|------------------|
| EPLAN Data                                 | 9AAC175202_EPLAN |
| Data Sheet, Technical Information          | 1SBC100214C0202  |
| Data Sheet, Technical Information (Part 2) | 1SAC200017M0002  |
| Instructions and Manuals                   | 1SFC100008M0201  |
| CAD Dimensional Drawing                    | 2CDC001079B0201  |

## Dimensions

|                            |                 |
|----------------------------|-----------------|
| Product Net Width          | 140 mm          |
| Product Net Depth / Length | 180 mm          |
| Product Net Height         | 225 mm          |
| Product Net Weight         | 3.9 kg          |
| Dimension Diagram          | 1SFB535001G1060 |

## 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                                                                                                                                                                                |
| Number of Poles                                    | 3P                                                                                                                                                                               |
| 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 $\Theta = 40\text{ °C}$ 400 A                                                                                                             |
| Rated Operational Current AC-1 ( $I_e$ )           | (1000 V) 40 °C 350 A<br>(1000 V) 55 °C 300 A<br>(1000 V) 60 °C 300 A<br>(1000 V) 70 °C 240 A<br>(690 V) 40 °C 400 A<br>(690 V) 55 °C 350 A<br>(690 V) 70 °C 290 A                |
| Rated Operational Current AC-3 ( $I_e$ )           | (415 V) 55 °C 265 A<br>(440 V) 55 °C 265 A<br>(500 V) 55 °C 250 A<br>(690 V) 55 °C 250 A<br>(1000 V) 55 °C 113 A<br>(380 / 400 V) 55 °C 265 A<br>(220 / 230 / 240 V) 55 °C 265 A |
| Rated Operational Current DC-1 ( $I_e$ )           | (110 V) 2 Poles in Series, 40 °C 350 A<br>(220 V) 3 Poles in Series, 40 °C 350 A                                                                                                 |
| Rated Operational Current DC-3 ( $I_e$ )           | (110 V) 2 Poles in Series, 40 °C 350 A<br>(220 V) 3 Poles in Series, 40 °C 350 A                                                                                                 |
| Rated Operational Current DC-5 ( $I_e$ )           | (110 V) 2 Poles in Series, 40 °C 350 A<br>(220 V) 3 Poles in Series, 40 °C 350 A                                                                                                 |
| Rated Operational Power AC-3 ( $P_e$ )             | (415 V) 132 kW<br>(440 V) 160 kW<br>(500 V) 160 kW                                                                                                                               |

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         | (690 V) 200 kW<br>(1000 V) 160 kW<br>(380 / 400 V) 132 kW<br>(220 / 230 / 240 V) 75 kW                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rated Breaking Capacity<br>AC-3                                         | 8 x I <sub>e</sub> AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rated Breaking Capacity<br>AC-3e                                        | 8.5 x I <sub>e</sub> AC-3e                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated Making Capacity<br>AC-3                                           | 10 x I <sub>e</sub> AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rated Making Capacity<br>AC-3e                                          | 12 x I <sub>e</sub> AC-3e                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Short-Circuit Protective<br>Devices                                     | gG Type Fuses 500 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rated Short-time<br>Withstand Current Low<br>Voltage (I <sub>cw</sub> ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 400 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1224 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2650 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2120 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 865 A                                                                                                                                                  |
| Maximum Breaking<br>Capacity                                            | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 3800 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 3300 A                                                                                                                                                                                                                                                                                                                                                       |
| 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<br>Withstand Voltage (U <sub>imp</sub><br>)               | Main Circuit 8 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Maximum Electrical<br>Switching Frequency                               | (AC-1) 300 cycles per hour<br>(AC-2 / AC-4) 150 cycles per hour<br>(AC-3) 300 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical Durability                                                   | 5 million                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum Mechanical<br>Switching Frequency                               | 300 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Coil Operating Limits                                                   | (acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\theta \leq 70$ °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 17.5 V-A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 17.5 V-A<br>Holding at Max. Rated Control Circuit Voltage DC 4.5 V-A<br>Holding at Max. Rated Control Circuit Voltage DC 4.5 W<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 385 V-A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 385 V-A<br>Pull-in at Max. Rated Control Circuit Voltage DC 410 V-A<br>Pull-in at Max. Rated Control Circuit Voltage DC 410 W |
| Power Loss                                                              | at Rated Operating Conditions per Pole 14 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<br>Main Circuit                                     | Flexible 2 x 70 ... 185 mm <sup>2</sup><br>Rigid Al-Cable 1 x 185 ... 240 mm <sup>2</sup><br>Rigid Cu-Cable 2 x 70 ... 185 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                             |
| Connecting Capacity<br>Auxiliary Circuit                                | Flexible with Ferrule 2x 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 1 x 1 ... 4 mm <sup>2</sup><br>Solid 2 x 1 ... 4 mm <sup>2</sup><br>Stranded 1 x 1 .... 4 mm <sup>2</sup><br>Stranded 2 x 1 .... 4 mm <sup>2</sup>                                                                                                                                                                        |
| Connecting Capacity                                                     | Flexible 2 x 70 ... 185 mm <sup>2</sup><br>Rigid Al-Cable 1 x 185 ... 240 mm <sup>2</sup><br>Rigid Cu-Cable 2 x 70 ... 185 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                             |
| Degree of Protection                                                    | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40<br>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                                                                                                                                                                                                                                                                                                      |
| Tightening Torque                                                       | Cable Lug 9 N·m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|               |                            |
|---------------|----------------------------|
|               | Main Circuit 22 ... 43 N-m |
| Terminal Type | Main Circuit: Bars         |
| Product Name  | Block Contactor            |

## Technical UL/CSA

|                                  |                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEMA Size                        | 5                                                                                                                                                                                       |
| Continuous Current Rating NEMA   | 270 A                                                                                                                                                                                   |
| Horsepower Rating NEMA           | (200 V AC) Three Phase 75 Hp<br>(230 V AC) Three Phase 100 Hp<br>(460 V AC) Three Phase 200 Hp<br>(575 V AC) Three Phase 200 Hp                                                         |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V                                                                                                                                                                      |
| General Use Rating UL/CSA        | (1000 V AC) 350 A                                                                                                                                                                       |
| Horsepower Rating UL/CSA         | (200 V AC) Three Phase 75 hp<br>(208 V AC) Three Phase 75 hp<br>(220 ... 240 V AC) Three Phase 100 hp<br>(440 ... 480 V AC) Three Phase 200 hp<br>(550 ... 600 V AC) Three Phase 250 hp |
| Full Load Amps Motor Use         | (440 ... 480 V AC) Three Phase 240 A<br>(550 ... 600 V AC) Three Phase 242 A                                                                                                            |

## Environmental

|                                        |                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C<br>Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C<br>Close to Contactor for Storage -40 ... 70 °C |
| Maximum Operating Altitude Permissible | Without Derating 3000 m                                                                                                                                                                                                                                                                              |

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                                        |
| REACH Declaration                           | 2CMT2021-006202                                                        |
| RoHS Declaration                            | 2CMT2021-006277                                                        |
| RoHS Information                            | 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)             |

## ABB EcoSolutions

|                                                 |                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ABB EcoSolutions                                | Yes                                                                                                                  |
| ABB Site Meeting 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 |
| End Of Life Disassembling Instructions          | 1SFC100112M0002                                                                                                      |
| Environmental Product                           | 1SFC100104D0201                                                                                                      |

|                                                   |                                                                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Declaration - EPD                                 | 2TFP200030A1001                                                                                                                          |
| Improved Energy Efficiency for Customers          | Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 76.3 %                                                                            |
| Sustainable Material Content in Product (wt. %)   | Recycled Metal - 33 %                                                                                                                    |

## Certificates and Declarations

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| A2L Certificate – UL             | 9AKK108468A6695                            |
| ABS Certificate                  | 14-LD1092198-PDA                           |
| BV Certificate                   | BV_36353_A0BV                              |
| CB Certificate                   | SE-89316                                   |
| CCS Certificate                  | GB14T00030                                 |
| CQC Certificate                  | CQC2014010304676670<br>CQC2014010304673866 |
| Declaration of Conformity - CCC  | 2020980304001305<br>2020980304001068       |
| Declaration of Conformity - CE   | 2CMT2015-005439                            |
| Declaration of Conformity - UKCA | 2CMT2020-006118                            |
| DNV Certificate                  | DNV_E-14043                                |
| EAC Certificate                  | 9AKK107046A8618                            |
| GL Certificate                   | GL_95073-14HH                              |
| LR Certificate                   | LR_14_70011(E1)                            |
| PRS Certificate                  | TE_2092_880423_16                          |
| RINA Certificate                 | ELE060313XG_002                            |
| RMRS Certificate                 | 9AKK107045A6978                            |
| UL Certificate                   | 20121217-E36588                            |
| UL Listing Card                  | UL_E36588                                  |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 263 mm        |
| Package Level 1 Depth / Length | 203 mm        |
| Package Level 1 Height         | 289 mm        |
| Package Level 1 Gross Weight   | 4.6 kg        |
| Package Level 1 EAN            | 7320500481172 |

## External Classifications and Standards

|                            |                                          |
|----------------------------|------------------------------------------|
| Object Classification Code | Q                                        |
| ETIM 7                     | EC000066 - Power contactor, AC switching |
| ETIM 8                     | EC000066 - Power contactor, AC switching |
| ETIM 9                     | EC000066 - Power contactor, AC switching |
| eClass                     | V11.0 : 27371003                         |
| UNSPSC                     | 39121529                                 |
| IDEA Granular Category     | 4758 >> Iec Contactors                   |

|                    |         |
|--------------------|---------|
| Code (IGCC)        |         |
| E-Number (Finland) | 3706473 |
| E-Number (Norway)  | 3210151 |

Accessories

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

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF265

