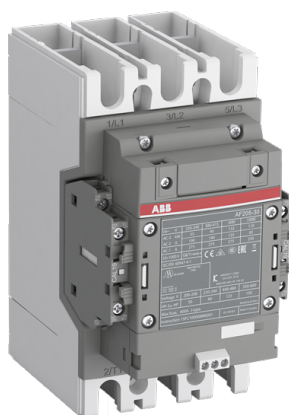


## PRODUCT-DETAILS

# AF205-30-22-34

## AF205-30-22-34 Contactor



### General Information

|                       |                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF205-30-22-34                                                                                                                                                                                                          |
| Product ID            | 1SFL527002R3422                                                                                                                                                                                                         |
| EAN                   | 7320500480755                                                                                                                                                                                                           |
| Catalog Description   | AF205-30-22-34 Contactor                                                                                                                                                                                                |
| Long Description      | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Controlled with PLC and with wide control voltage range 250-500 V, AC/DC |

### Ordering

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

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C02   |
| Instructions and Manuals          | 1SFC100008M0201 |

### 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                    | 2                                                                                                                                                                                                                                                                                                                                                    |
| Number of Auxiliary Contacts NC                    | 2                                                                                                                                                                                                                                                                                                                                                    |
| Rated Operational Voltage                          | Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                  |
| Rated Frequency (f)                                | Main Circuit 60 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<br>(690 V) 70 °C 240                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                       |
| 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<br>(AC-3) 300 cycles per hour                                                                                                                                                                                                                                                        |
| 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 ( $U_{imp}$ )      | 8 kV                                                                                                                                                                                                                                                                                                                                                 |

|                                         |                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical Durability                   | 5 million                                                                                                                                                                                                                                                                                                            |
| Maximum Mechanical Switching Frequency  | 300 cycles per hour                                                                                                                                                                                                                                                                                                  |
| Coil Operating Limits                   | (acc. to IEC 60947-4-1) $U_c$ (at $\theta \leq 70^\circ\text{C}$ )                                                                                                                                                                                                                                                   |
| Rated Control Circuit Voltage ( $U_c$ ) | 50 Hz 250 ... 500 V<br>60 Hz 250 ... 500 V<br>DC Operation 250 ... 500 V                                                                                                                                                                                                                                             |
| Coil Consumption                        | Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 185 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 185 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 188 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 Voltage UL/CSA | Main Circuit 1000 V |
| General Use Rating UL/CSA        | (600 V AC) 300 A    |

## Environmental

|                                        |                                                                                                                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 $U_c$ ) -25 ... +55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 $U_c$ ) -40 ... +70 °C<br>Close to Contactor for Storage -40 ... +70 °C |
| Maximum Operating Altitude Permissible | 3000 m                                                                                                                                                                                                                      |
| RoHS Status                            | Following EU Directive 2015/863 July 22, 2019 (RoHS 3)                                                                                                                                                                      |

## 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                    |
| cUL Certificate                | 20121023-E36588               |
| Declaration of Conformity - 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            | 7320500480755 |

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  |
| UNSPSC                             | 39121529                                  |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors                        |
| E-Number (Finland)                 | 3707512                                   |

Categories

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

