

## PRODUCT-DETAILS

# AF146B-30-22-11

## AF146B-30-22-11 Contactor



### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF146B-30-22-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product ID            | 1SFL467063R1122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EAN                   | 7320500511343                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Catalog Description   | AF146B-30-22-11 Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Long Description      | <p>The AF146B-30-22-11 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and standard ferrules, controlling motors up to 75 kW / 400 V AC (AC-3) or 100 hp / 480 V UL and switching power circuits up to 225 A (AC-1) or 200 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 | 1SBC100192C0204 |
| Instructions and Manuals          | 1SFC100003M0201 |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 90 mm   |
| Product Net Depth / Length | 126 mm  |
| Product Net Height         | 150 mm  |
| Product Net Weight         | 1.55 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                                                                                                                                                                                                                                                                                                                                                    |
| Standards                                       | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.           |
| Rated Operational Current AC-1 ( $I_e$ )        | (1000 V) 40 °C 225 A<br>(1000 V) 55 °C 200 A<br>(1000 V) 60 °C 200 A<br>(1000 V) 70 °C 175 A<br>(690 V) 40 °C 225 A<br>(690 V) 55 °C 200 A<br>(690 V) 60 °C 200 A<br>(690 V) 70 °C 175 A                                                                                                                                                             |
| Rated Operational Current AC-3 ( $I_e$ )        | (415 V) 55 °C 146 A<br>(440 V) 55 °C 130 A<br>(500 V) 55 °C 130 A<br>(690 V) 55 °C 93 A<br>(1000 V) 55 °C 60 A<br>(380 / 400 V) 55 °C 146 A<br>(220 / 230 / 240 V) 55 °C 146 A                                                                                                                                                                       |
| Rated Operational Power AC-3 ( $P_e$ )          | (415 V) 75 kW<br>(440 V) 90 kW<br>(500 V) 90 kW<br>(690 V) 90 kW<br>(1000 V) 75 kW<br>(380 / 400 V) 75 kW<br>(220 / 230 / 240 V) 45 kW                                                                                                                                                                                                               |
| Rated Short-time Withstand Current ( $I_{cw}$ ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 225 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A |
| Mechanical Durability                           | 5 million                                                                                                                                                                                                                                                                                                                                            |
| Maximum Mechanical Switching Frequency          | 300 cycles per hour                                                                                                                                                                                                                                                                                                                                  |
| Rated Control Circuit Voltage ( $U_c$ )         | 50 Hz / 60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V                                                                                                                                                                                                                                                                                                |
| Coil Consumption                                | Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V-A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V-A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V-A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V-A<br>Pull-in at Max. Rated Control Circuit Voltage DC 210 W                                   |
| Terminal Type                                   | Main Circuit: Bars                                                                                                                                                                                                                                                                                                                                   |

## Environmental

|             |                                   |
|-------------|-----------------------------------|
| RoHS Status | Following EU Directive 2011/65/EU |
|-------------|-----------------------------------|

## Certificates and Declarations (Document Number)

|                                    |                     |
|------------------------------------|---------------------|
| CB Certificate                     | SEMKO_SE-70479M1    |
| CCC Certificate                    | 2013010304604055    |
| CQC Certificate                    | CQC2013010304604055 |
| cUL Certificate                    | 20120925-E36588     |
| Declaration of<br>Conformity - CCC | 2020980304001304    |
| Declaration of<br>Conformity - CE  | 2CMT2015-005440     |
| EAC Certificate                    | 9AKK107046A8618     |
| Instructions and<br>Manuals        | 1SFC100003M0201     |
| KC Certificate                     | 9AKK107046A9910     |
| RoHS Information                   | 2CMT2016-005489     |

## Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 207 mm        |
| Package Level 1 Depth /<br>Length | 216 mm        |
| Package Level 1 Height            | 150 mm        |
| Package Level 1 Gross<br>Weight   | 1.75 kg       |
| Package Level 1 EAN               | 7320500511343 |

## Classifications

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Object Classification<br>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<br>Code (IGCC) | 4755 >> Contactors                        |

## Categories

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

