



## PRODUCT-DETAILS

**AF40N2R-30-22-11****AF40N2R-30-22-11 24-60V50/60HZ 20-60VDC  
Reversing Contactor****General Information**

|                       |   |
|-----------------------|---|
| Extended Product Type | AF40N2R-30-22-11  |
| Product ID            | 1SBX305321R1122   |
| EAN                   | 3471523020399   |
| Catalog Description   | AF40N2R-30-22-11 24-60V50/60HZ 20-60VDC Reversing Contactor |
| Long Description      | AF40N2R-30-22-11 24-60V50/60HZ 20-60VDC Reversing Contactor |

**Ordering**

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

**Popular Downloads**

|                         |                 |
|-------------------------|-----------------|
| CAD Dimensional Drawing | 2CDC001079B0201 |
|-------------------------|-----------------|

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 110 mm   |
| Product Net Depth / Length | 144 mm   |
| Product Net Height         | 151 mm   |
| Product Net Weight         | 2.168 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 60947-1, UL 60947-4-1, CSA C22.2 No. 60947-1:22, CSA C22.2 No. 60947-4-1:22  |
| Rated Operational Voltage   | Auxiliary Circuit 690 V<br>Main Circuit 690 V   |
| Rated Frequency (f)   | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz   |
| Rated Operational Current AC-1 (I <sub>e</sub> )                  | (1000 V) 60 °C 60 A<br>(690 V) 40 °C 70 A<br>(690 V) 70 °C 50 A   |
| Rated Operational Current AC-3 (I <sub>e</sub> )                  | (415 V) 60 °C 40 A<br>(440 V) 60 °C 40 A<br>(500 V) 60 °C 35 A<br>(690 V) 60 °C 25 A<br>(380 / 400 V) 60 °C 40 A<br>(220 / 230 / 240 V) 60 °C 40 A  |
| Rated Operational Current AC-3e (I <sub>e</sub> )                 | (415 V) 60 °C 40 A<br>(440 V) 60 °C 40 A<br>(500 V) 60 °C 35 A<br>(690 V) 60 °C 25 A<br>(380 / 400 V) 60 °C 40 A<br>(220 / 230 / 240 V) 60 °C 40 A  |
| Rated Operational Power AC-3 (P <sub>e</sub> )                    | (415 V) 22 kW<br>(440 V) 22 kW<br>(500 V) 22 kW<br>(690 V) 22 kW<br>(380 / 400 V) 18.5 kW<br>(220 / 230 / 240 V) 11 kW  |
| Rated Operational Power AC-3e (P <sub>e</sub> )                   | (415 V) 22 kW<br>(440 V) 22 kW<br>(500 V) 22 kW<br>(690 V) 22 kW<br>(380 / 400 V) 18.5 kW<br>(220 / 230 / 240 V) 11 kW  |
| Rated Operational Current AC-15 (I <sub>e</sub> )                 | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(400 / 440 V) 3 A  |
| Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 600 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 350 A<br>for 0.1 s 140 A<br>for 1 s 100 A |

|   |  |
|---|--|
| Maximum Breaking Capacity                           | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 950 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 600 A   |
| Maximum Electrical Switching Frequency              | (AC-15) 1200 cycles per hour<br>(DC-13) 900 cycles per hour  |
| Rated Operational Current DC-13 (I <sub>e</sub> )   | (24 V) 6 A / 144 W<br>(48 V) 2.8 A / 134 W<br>(72 V) 1 A / 72 W<br>(110 V) 0.55 A / 60 W<br>(125 V) 0.55 A / 69 W<br>(220 V) 0.27 A / 60 W<br>(250 V) 0.27 A / 68 W<br>(400 V) 0.15 A / 60 W<br>(500 V) 0.13 A / 65 W<br>(600 V) 0.1 A / 60 W  |
| Rated Insulation Voltage (U <sub>i</sub> )          | acc. to IEC 60947-4-1 690 V<br>acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 6 kV   |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 50 Hz 24 ... 60 V<br>60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V   |
| Mounting on DIN Rail                                | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715   |
| Mounting by Screws (not supplied)                   | 2 x M4 or 2 x M6 screws placed diagonally  |
| Connecting Capacity Main Circuit                    | Flexible with Ferrule 1/2x 4 ... 35 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 4 ... 35 mm <sup>2</sup><br>Rigid Stranded 1/2x 6 ... 35 mm <sup>2</sup>   |
| Connecting Capacity Control Circuit                 | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup> |
| Wire Stripping Length                               | Auxiliary Circuit 10 mm<br>Control Circuit 10 mm<br>Main Circuit 16 mm   |
| Degree of Protection                                | acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10   |
| Terminal Type                                       | Screw Terminals  |

## Technical UL/CSA

|  |   |
|--|---|
| Maximum Operating Voltage UL/CSA           | Main Circuit 600 V  |
| Connecting Capacity Main Circuit UL/CSA    | Rigid Stranded 1/2x 10-2 AWG  |
| Connecting Capacity Control Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 AWG                     |
| Tightening Torque UL/CSA                   | Auxiliary Circuit 11 in-lb<br>Control Circuit 11 in-lb<br>Main Circuit 35 in-lb |

## Environmental

|                         |   |
|-------------------------|---|
| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay -40 ... 70 °C<br>Close to Contactor without Thermal O/L Relay -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
|-------------------------|---|

## Material Compliance

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

**Certificates and Declarations**

|                 |  |
|-----------------|--|
| CB Certificate  | CB_SE-113324   |
| CCC Certificate | CQC2015010304824714  |
| UL Certificate  | UL-US-L312527-1141-10303102-9<br>UL-CA-L312527-4141-10303102-9 |

**Container Information**

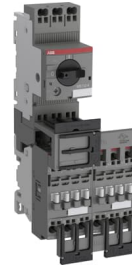
|                              |               |
|------------------------------|---------------|
| Package Level 1 Units        | box 1 piece   |
| Package Level 1 Gross Weight | 3.668 kg      |
| Package Level 1 EAN          | 3471523020399 |

**Classifications**

|        |                                      |
|--------|--------------------------------------|
| ETIM 7 | EC000010 - Combination of contactors |
| ETIM 8 | EC000010 - Combination of contactors |
| ETIM 9 | EC000010 - Combination of contactors |
| eClass | V11.0 : 27371003                     |
| UNSPSC | 39121529                             |

**Categories**

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF40



360°

