

PRODUCT-DETAILS

# AF140-30-11-13

## AF140-30-11-13 Contactor



### General Information

|                       |                          |
|-----------------------|--------------------------|
| Extended Product Type | AF140-30-11-13           |
| Product ID            | 1SFL447001R1311          |
| EAN                   | 7320500476949            |
| Catalog Description   | AF140-30-11-13 Contactor |

|                  |  |
|------------------|--|
| Long Description | <p>The AF140-30-11-13 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and double clamp, controlling motors up to 75 kW / 400 V AC (AC-3) or 100 hp / 480 V UL and switching power circuits up to 200 A (AC-1) or 200 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.</p> |
|------------------|--|

### Ordering

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

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals          | 1SFC100003M0201 |
| Dimension Diagram                 | 1SFB535001G1051 |

## 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                    | 1  |
| Number of Auxiliary Contacts NC                    | 1  |
| Rated Operational Voltage                          | Main Circuit 690 V   |
| Rated Frequency (f)                                | Main Circuit 50 / 60 Hz  |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 200 A   |
| Rated Operational Current AC-1 ( $I_e$ )           | (690 V) 40 °C 200<br>(690 V) 70 °C 160   |
| Rated Operational Current AC-3 ( $I_e$ )           | (415 V) 55 °C 140 A<br>(440 V) 55 °C 140 A<br>(500 V) 55 °C 130 A<br>(690 V) 55 °C 80 A<br>(380 / 400 V) 55 °C 140 A<br>(220 / 230 / 240 V) 55 °C 140  |
| Rated Operational Power AC-3 ( $P_e$ )             | (415 V) 75 kW<br>(440 V) 90 kW<br>(500 V) 90 kW<br>(690 V) 75 kW<br>(380 / 400 V) 75 kW<br>(220 / 230 / 240 V) 37 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 315 A  |
| 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 200 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 |
| Maximum Breaking Capacity                          | cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 3000 A<br>cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 1500 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 Operational Current DC-1 ( $I_e$ )           | (110 V) 2 Poles in Series, 40 °C 160 A<br>(220 V) 3 Poles in Series, 40 °C 160 A   |
| Rated Operational Current DC-3 ( $I_e$ )           | (110 V) 2 Poles in Series, 40 °C 160 A<br>(220 V) 3 Poles in Series, 40 °C 160 A   |
| Rated Operational Current DC-5 ( $I_e$ )           | (110 V) 2 Poles in Series, 40 °C 160 A<br>(220 V) 3 Poles in Series, 40 °C 160 A   |
| 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 ( $U_{imp}$ )      | Main Circuit 8 kV  |

|   |  |
|---|--|
| Mechanical Durability                   | 5 million  |
| Maximum Mechanical Switching Frequency  | 300 cycles per hour  |
| Coil Operating Limits                   | (acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70^\circ\text{C}$ )  |
| Rated Control Circuit Voltage ( $U_c$ ) | 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 6 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A<br>Holding at Max. Rated Control Circuit Voltage DC 3 W<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 130 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 130 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 135 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 Main Circuit        | Flexible 2 x 10 ... 70 mm <sup>2</sup><br>Rigid Cu-Cable 2 x 10 ... 95 mm <sup>2</sup>   |
| Connecting Capacity 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 2 x 1 ... 4 mm <sup>2</sup><br>Stranded 2 x 1 ... 4 mm <sup>2</sup>   |
| Degree of Protection                    | 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   |
| Terminal Type                           | Double Clamp   |

## Technical UL/CSA

|                                  |  |
|----------------------------------|--|
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V   |
| General Use Rating UL/CSA        | (600 V AC) 200 A   |
| Horsepower Rating UL/CSA         | (200 V AC) Three Phase 40 hp<br>(208 V AC) Three Phase 40 hp<br>(220 ... 240 V AC) Three Phase 50 hp<br>(440 ... 480 V AC) Three Phase 100 hp<br>(550 ... 600 V AC) Three Phase 125 hp |

## 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 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 | 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                  | SEMKO_SE-70479M1    |
| CCS Certificate                 | GB14T00030          |
| CQC Certificate                 | CQC2013010304604055 |
| cUL Certificate                 | 20120925-E36588     |
| Declaration of Conformity - CCC | 2020980304001304    |
| Declaration of Conformity - CE  | 2CMT2015-005439     |
| DNV Certificate                 | DNV_E-14043         |
| DNV GL Certificate              | DNV_E-14043         |
| EAC Certificate                 | 9AKK107046A8618     |

|                           |                               |
|---------------------------|-------------------------------|
| Environmental Information | 2CMT004732<br>1SAC200032H0002 |
| GL Certificate            | DNV_E-14043                   |
| Instructions and Manuals  | 1SFC100003M0201               |
| 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                     |

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## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 207 mm        |
| Package Level 1 Depth / Length | 216 mm        |
| Package Level 1 Height         | 150 mm        |
| Package Level 1 Gross Weight   | 1.75 kg       |
| Package Level 1 EAN            | 7320500476949 |

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## 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)                 | 3706192                                   |
| E-Number (Norway)                  | 4117619                                   |

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## Categories

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

