

## General Information

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|-------------------------------|---|
| <b>Extended Product Type:</b> | AF140-30-11B-14   |
| <b>Product ID:</b>            | 1SFL447002R1411   |
| <b>EAN:</b>                   | 7320500482001   |
| <b>Catalog Description:</b>   | AF140-30-11B-14 Contactor   |
| <b>Long Description:</b>      | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 690 V. Operated with wide control voltage range 250-500 V, 50/60 Hz and DC |

## Categories

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

## Ordering

|                                |               |
|--------------------------------|---------------|
| <b>Minimum Order Quantity:</b> | 1 piece       |
| <b>Customs Tariff Number:</b>  | 85364900      |
| <b>EAN:</b>                    | 7320500482001 |

## Dimensions

|                            |          |
|----------------------------|----------|
| <b>Product Net Depth:</b>  | 126.0 mm |
| <b>Product Net Height:</b> | 150.0 mm |
| <b>Product Net Weight:</b> | 1.648 kg |
| <b>Product Net Width:</b>  | 90.0 mm  |

## Container Information

|                                      |               |
|--------------------------------------|---------------|
| <b>Package Level 1 Width:</b>        | 194 mm        |
| <b>Package Level 1 Length:</b>       | 115 mm        |
| <b>Package Level 1 Height:</b>       | 169 mm        |
| <b>Package Level 1 Gross Weight:</b> | 1.678 kg      |
| <b>Package Level 1 EAN:</b>          | 7320500482001 |
| <b>Package Level 1 Units:</b>        | 1 piece       |

## Technical

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| <b>Number of Main Contacts NC:</b>                             | 0  |
| <b>Number of Auxiliary Contacts NO:</b>                        | 1  |
| <b>Number of Auxiliary Contacts NC:</b>                        | 1  |
| <b>Rated Operational Voltage:</b>                              | Main Circuit 690 V   |
| <b>Rated Frequency (f):</b>                                    | Main Circuit 50/60 Hz  |
| <b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b> | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 200 A   |
| <b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>         | (690 V) 55 °C 175 A<br>(690 V) 40 °C 200 A<br>(690 V) 70 °C 160 A  |
| <b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>         | (415 V) 55 °C 140 A<br>(690 V) 55 °C 80 A<br>(220 / 230 / 240 V) 55 °C 140 A<br>(440 V) 55 °C 140 A<br>(380 / 400 V) 55 °C 140 A<br>(500 V) 55 °C 130 A  |
| <b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>           | (500 V) 90 kW<br>(690 V) 75 kW<br>(220 / 230 / 240 V) 37 kW<br>(380 / 400 V) 75 kW<br>(440 V) 90 kW<br>(415 V) 75 kW   |
| <b>Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:</b>     | 8 x I <sub>e</sub> AC-3  |
| <b>Rated Making Capacity AC-3 acc. to IEC 60947-4-1:</b>       | 10 x I <sub>e</sub> AC-3   |
| <b>Short-Circuit Protective Devices:</b>                       | gG Type Fuses 315 A  |
| <b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>    | 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 30 s 674 A<br>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 1 s 1460 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A |
| <b>Maximum Breaking Capacity:</b>                              | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 3000 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 1500 A   |

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| <b>Maximum Electrical Switching Frequency:</b>            | AC-3 300 cycles per hour<br>AC-1 300 cycles per hour<br>AC-2 / AC-4 150 cycles per hour  |
| <b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>    | (110 V) 2 Poles in Series, 40 °C 160 A<br>(220 V) 3 Poles in Series, 40 °C 160 A   |
| <b>Rated Operational Current DC-3 (I<sub>e</sub>):</b>    | (110 V) 2 Poles in Series, 40 °C 160 A<br>(220 V) 3 Poles in Series, 40 °C 160 A   |
| <b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>    | (110 V) 2 Poles in Series, 40 °C 160 A<br>(220 V) 3 Poles in Series, 40 °C 160 A   |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>          | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V   |
| <b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b> | Main Circuit 8 kV  |
| <b>Mechanical Durability:</b>                             | 5 million  |
| <b>Maximum Mechanical Switching Frequency:</b>            | 300 cycles per hour  |
| <b>Coil Operating Limits:</b>                             | (acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at θ ≤ 70 °C) °C   |
| <b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>     | 60 Hz 250...500 V<br>50 Hz 250...500 V<br>DC Operation 250...500 V   |
| <b>Coil Consumption:</b>                                  | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 205 V·A<br>Holding at Max. Rated Control Circuit Voltage DC 4 W<br>Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 204 W<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 205 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A |
| <b>Operate Time:</b>                                      | Between Coil Energization and NO Contact Closing 25...55 ms<br>Between Coil De-energization and NO Contact Opening 37...47 ms  |
| <b>Connecting Capacity Main Circuit:</b>                  | Flexible 2x10...70 mm <sup>2</sup><br>Rigid Cu-Cable 2x10...95 mm <sup>2</sup>   |
| <b>Connecting Capacity Auxiliary Circuit:</b>             | Solid 2x1...4 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x0.75...2.5 mm <sup>2</sup><br>Stranded 1x1...4 mm <sup>2</sup><br>Flexible 1x0.75...2.5 mm <sup>2</sup><br>Flexible with Ferrule 2x0.75...2.5 mm <sup>2</sup>   |
| <b>Degree of Protection:</b>                              | 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   |
| <b>Terminal Type:</b>                                     | Main Circuit: Bars   |
| <b>Number of Main Contacts NO:</b>                        | 3  |

## Environmental

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|--|---|
| <b>Maximum Operating Altitude Permissible:</b> | 3000 m  |
| <b>RoHS Status:</b>                            | Following EU Directive 2002/95/EC August 18, 2005 and amendment   |
| <b>Ambient Air Temperature:</b>                | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -25...+50 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -40...+70 °C<br>Close to Contactor for Storage -40...+70 °C |

## Technical UL/CSA

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

## Certificates and Declarations (Document Number)

|   |                      |
|---|----------------------|
| <b>Instructions and Manuals:</b>          | 1SFC100003M0201      |
| <b>CB Certificate:</b>                    | SE-70480             |
| <b>CCC Certificate:</b>                   | CQC_2013010304604055 |
| <b>Data Sheet, Technical Information:</b> | 1SFC101070D0201      |
| <b>Declaration of Conformity - CE:</b>    | 2CMT004242           |
| <b>RINA Certificate:</b>                  | ELE060313XG/002      |
| <b>RoHS Information:</b>                  | 1SFC101055D0202      |

## Classifications

|                  |   |
|------------------|---|
| <b>E-nummer:</b> | 3210111                                   |
| <b>ETIM 4:</b>   | EC000066 - Magnet contactor, AC-switching |
| <b>ETIM 5:</b>   | EC000066 - Magnet contactor, AC-switching |

UNSPSC: 39121529

Object Classification Code: Q

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