## AF116-30-11-11



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

 Extended Product Type:
 AF116-30-11-11

 Product ID:
 1SFL427001R1111

 EAN:
 7320500476352

Catalog Description: AF116-30-11-11 Contactor

Long Description: A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-

pass and Distribution application up to max 690 V. Operated with wide control voltage rang

e 24-60 V, 50 and 60 Hz, 20-60 V DC

## Additional Information

| ABB Industrial IT Suite:   | Control IT  |
|--|---|
| Ambient Air Temperature:   | Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25+50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40+70 °C Close to Contactor for Storage -40+70 °C  |
| Battery Information:   | Type NONE   |
| Block Contactor Type:  | 3-Pole Contactor  |
| CB Certificate:  | SE-70479  |
| CCC Certificate:   | CQC_2013010304604055  |
| Coil Consumption:  | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A Pull-in at Max. Rated Control Circuit Voltage DC 210 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A |
| Coil Operating Limits:   | (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C) °C   |
| Coil Voltage Code:   | 11  |
| Connecting Capacity:   | Rigid Cu-Cable 2x1095 mm²<br>Flexible 2x1070 mm²  |
| Connecting Capacity Auxiliary Circuit:                             | Solid 1x14 mm <sup>2</sup> Flexible with Insulated Ferrule 2x0.752.5 mm <sup>2</sup> Stranded 2x14 mm <sup>2</sup> Flexible 2x0.752.5 mm <sup>2</sup> Flexible with Ferrule 2x0.752.5 mm <sup>2</sup>   |
| Connecting Capacity Main Circuit:                                  | Flexible 1x1070 mm²<br>Rigid Cu-Cable 1x1095 mm²  |
| Connecting terminals (delivered in open position):                 | YES   |
| Connecting terminals (delivered in open position) Coils terminals: | YES   |
| Conventional Free-air Thermal Current (I <sub>th</sub> ):          | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A  |
| Country of Origin:   | Sweden (SE)   |
| Customs Tariff Number:   | 85364900  |
| Data Sheet, Technical Information:                                 | 1SFC101070D0201   |
| Declaration of Conformity - CE:                                    | 2CMT004242  |
| Degree of Protection:  | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00   |
| Dimension Diagram:   | 1SFB535001G1051   |
| Drop-out Voltage in %of Uc:  | 55 %  |
| E-nummer:  | 3210066   |
| EAN:   | 7320500476352   |
|  |   |

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|---|---|
| EPLAN Catalog Tree:                     | Electrical engineering / Relays, contactors / Contactors  |
| EPLAN Function Definition:              | NC contact / NC contact, 2 connection points / NC auxiliary contact 21_22 NO contact / NO contact, 2 connection points / NO auxiliary contact 13_14 NO contact / NO contact, 2 connection points / Power NO contact 5_6 Coil / Coil, 2 connection points / Coil for power contactor A1_A2 |
| ETIM 4:                                 | EC000066 - Magnet contactor, AC-switching   |
| ETIM 5:                                 | EC000066 - Magnet contactor, AC-switching   |
| ETIM 6:                                 | EC000066 - Power contactor, AC switching  |
| Environmental Information:              | 2CMT004732  |
| Full Load Amps Motor Use:               | (440 480 V AC) Three Phase 96 A<br>(550 600 V AC) Three Phase 99 A  |
| General Use Rating UL/CSA:              | (600 V AC) 160 A  |
| Horsepower Rating UL/CSA:               | (208 V AC) Three Phase 30 Hp<br>(440 480 V AC) Three Phase 75 Hp<br>(550 600 V AC) Three Phase 100 Hp<br>(220 240 V AC) Three Phase 40 Hp<br>(200 V AC) Three Phase 30 Hp   |
| IIT Publishing Status:                  | Level 0 - Information enabled   |
| Industrial IT Certification Level:      | 0   |
| Instructions and Manuals:               | 1SFC100003M0201   |
| Invoice Description:                    | AF116-30-11-11 Contactor  |
| Made To Order:                          | Yes   |
| Maximum Breaking Capacity:              | cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 2000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1000 A   |
| Maximum Electrical Switching Frequency: | AC-3 300 cycles per hour<br>AC-1 300 cycles per hour<br>AC-2 / AC-4 150 cycles per hour   |
| Maximum Mechanical Switching Frequency: | 300 cycles per hour   |
| Maximum Operating Altitude Permissible: | 3000 m  |
| Maximum Operating Voltage UL/CSA:       | Main Circuit 600 V  |
| Mechanical Durability:                  | 5 million   |
| Minimum Order Quantity:                 | 1 piece   |
| Mounted Auxiliary Contacts:             | 1 NO, 1 NC  |
| Number of Auxiliary Contacts NC:        | 1   |
| Number of Auxiliary Contacts NO:        | 1   |
| Number of Main Contacts NC:             | 0   |
| Number of Main Contacts NO:             | 3   |
| Number of Poles:                        | 3   |
| Object Classification Code:             | Q   |
| Operate Time:                           | Between Coil Energization and NO Contact Closing 2555 ms Between Coil De-energization and NO Contact Opening 3747 ms  |
| Order Multiple:                         | 1 piece   |
| Package Level 1 EAN:                    | 7320500476352   |
| Package Level 1 Gross Weight:           | 1.774 kg  |
| Package Level 1 Height:                 | 169 mm  |
| Package Level 1 Length:                 | 115 mm  |
| Package Level 1 Units:                  | 1 piece   |
| Package Level 1 Width:                  | 194 mm  |
| Part Type:                              | New   |
| Power Loss:                             | at Rated Operating Conditions per Pole 6 W  |
| Draduat Main Tuna                       | AE446   |

| егоцистиант туре:                                      | AF LIO  |
|--|---|
| Product Name:  | Contactor   |
| Product Net Depth:                                     | 126.0 mm  |
| Product Net Height:                                    | 150.0 mm  |
| Product Net Weight:                                    | 1.644 kg  |
| Product Net Width:                                     | 90.0 mm   |
| Product Packing Type:                                  | Box   |
| Quote Only:  | No  |
| RINA Certificate:                                      | ELE060313XG/002   |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:    | 8 x le AC-3   |
| Rated Control Circuit Voltage (U <sub>c</sub> ):       | 60 Hz 2460 V<br>50 Hz 2460 V<br>DC Operation 2060 V   |
| Rated Frequency (f):                                   | Main Circuit 50/60 Hz   |
| Rated Frequency Limits:                                | 25400 Hz  |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):   | Main Circuit 8 kV   |
| Rated Insulation Voltage (U <sub>i</sub> ):            | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V  |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1:      | 10 x le AC-3  |
| Rated Operational Current AC-1 (l <sub>e</sub> ):      | (690 V) 55 °C 145 A<br>(690 V) 40 °C 160 A<br>(690 V) 70 °C 130 A   |
| Rated Operational Current AC-3 (l <sub>e</sub> ):      | (220 / 230 / 240 V) 55 °C 116 A<br>(690 V) 55 °C 65 A<br>(415 V) 55 °C 116 A<br>(440 V) 55 °C 116 A<br>(380 / 400 V) 55 °C 116 A<br>(500 V) 55 °C 110 A   |
| Rated Operational Current DC-1 (l <sub>e</sub> ):      | (110 V) 2 Poles in Series, 40 °C 145 A<br>(220 V) 3 Poles in Series, 40 °C 145 A  |
| Rated Operational Current DC-3 (l <sub>e</sub> ):      | (110 V) 2 Poles in Series, 40 °C 145 A<br>(220 V) 3 Poles in Series, 40 °C 145 A  |
| Rated Operational Current DC-5 (l <sub>e</sub> ):      | (110 V) 2 Poles in Series, 40 °C 145 A<br>(220 V) 3 Poles in Series, 40 °C 145 A  |
| Rated Operational Power AC-3 (Pe):                     | (220 / 230 / 240 V) 30 kW<br>(380 / 400 V) 55 kW<br>(415 V) 55 kW<br>(440 V) 75 kW<br>(500 V) 75 kW<br>(690 V) 55 kW  |
| Rated Operational Voltage:                             | Main Circuit 690 V  |
| Rated Short-time Withstand Current (I <sub>cw</sub> ): | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A |
| RoHS Date:   | 1226 1  |
| RoHS Information:                                      | 1SFC101055D0202   |
| RoHS Status:   | Following EU Directive 2002/95/EC August 18, 2005 and amendment   |
| Selling Unit of Measure:                               | piece   |
| Short Description:                                     | AF116-30-11-11 24-60V 50/60Hz / 20-60V DC Contactor   |
| Short-Circuit Protective Devices:                      | gG Type Fuses 250 A   |
| Technical Information:                                 | Mechanically  |

Terminal Type: Double Clamp
Tightening Torque: Cable Lug 9 N·m
Main Circuit 8 N·m

**UNSPSC**: 39121529

