



## Alternate Catalog No. AF116-40-11-11 Catalog No. 1SFL427101R1111

Description: AF116-40-11-11 Contactor

UPC No 7320500504024

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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 range  $24-60\ V$ ,  $50\ and\ 60\ Hz$ ,  $20-60\ V\ DC$ 

| Descriptors          |                  |
|----------------------|------------------|
| Category             | AF Contactors    |
| Block Contactor Type | 4-Pole Contactor |

| Specifications                                     |   |
|--|---|
| Product Type                                       | AF  |
| General Use Rating UL/CSA                          | (600 V AC) 160 A  |
| Object Classification Code                         | Q   |
| Terminal Type                                      | Double Clamp  |
| Rated Control Circuit Voltage                      | 50 Hz /60 Hz 24 60 V<br>DC Operation 20 60 V  |
| Number of Main Contacts NO                         | 4   |
| Number of Main Contacts NC                         | 0   |
| Maximum Operating Voltage UL/CSA                   | Main Circuit 600 V  |
| Number of Auxiliary Contacts NO                    | 1   |
| RoHS Status  | Following EU Directive 2011/65/EU   |
| Reference Ambient Air Temperature                  | Close to Contactor for Storage -40 +70 °C 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 |
| Rated Operational Voltage                          | Main Circuit 690 V  |
| Number of Auxiliary Contacts NC                    | 1   |
| Maximum Operating Altitude Permissible             | 3000 m  |
| Rated Operational Current AC-1                     | (690 V) 40 °C 160 A<br>(690 V) 60 °C 145 A<br>(690 V) 70 °C 130 A   |
| Rated Operational Power AC-3                       | (220 / 230 / 240 V) 30 KWT<br>(380 / 400 V) 55 KWT<br>(415 V) 55 KWT<br>(440 V) 75 KWT  |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x le AC-3   |
| Conventional Free-air Thermal Current              | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A  |
| Rated Frequency                                    | Main Circuit 50Hz   |

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| Specifications                                   |   |
|--|---|
| Rated Short-time Withstand Current               | 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 1 min 379 A   |
| Rated Operational Current AC-3                   | at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A (220 / 230 / 240 V) 55 °C 116 A (380 / 400 V) 55 °C 116 A (415 V) 55 °C 116 A (440 V) 55 °C 116 A  |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x le AC-3  |
| Maximum Electrical Switching Frequency           | AC-1 300 cycles per hour  |
| Short-Circuit Protective Devices                 | gG Type Fuses 200 A   |
| Rated Insulation Voltage                         | acc. to UL/CSA 600 V  |
| Maximum Breaking Capacity                        | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 2000 A   |
| Mechanical Durability                            | 5 million   |
| Coil Operating Limits                            | (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70^{\circ}$   |
| Maximum Mechanical Switching Frequency           | C) 300 cycles per hour  |
| Operate Time                                     | Between Coil De-energization and NO Contact Opening 40 70 ms  |
|  | Between Coil Energization and NO Contact Closing 20 55 ms   |
| Secondary Rated Impulse Withstand Voltage        | Main Circuit 8 kV Flexible 2 x 10 70 m <sup>2</sup>   |
| Connecting Capacity Main Circuit                 | Rigid Cu-Cable 2 x 10 95 m <sup>2</sup>   |
| Coil Consumption                                 | Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V - A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V - A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V - A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V - A Pull-in at Max. Rated Control Circuit Voltage DC 210 W |
| 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<br>Flexible 2x0.75 2.5 m <sup>2</sup>  |
| Connecting Capacity Auxiliary Circuit            | Solid 1 x 1 4 m <sup>2</sup><br>Stranded 2 x 1 4 m <sup>2</sup>   |
| Classifications                                  |   |
| ETIM 4   | EC000066 - Magnet contactor, AC-switching   |
| ETIM 6.0   | EC000066 - Power contactor, AC switching  |
| ETIM 7   | EC000066 - Power contactor, AC switching  |
| IDEA Granular Category Code (IGCC)               | 4755 >> Contactors  |
| ETIM 5.0   | EC000066 - Magnet contactor, AC-switching   |
| Dimensions                                       |   |
|  | 2.05 kg   |
| Product Net Weight Product Net Depth / Length    | 2.05 kg   |
| Product Net Width                                | 128 mm  |
| Product Net Height                               | 150 mm  |
| Troduct Net Height                               | 130   |
| Package Information                              |   |
| Package Level 1 Width                            | 147 mm  |
| Package Level 1 Height                           | 155 mm  |
|  |   |

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197 mm

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Package Level 1 Depth / Length

Package Level 1 EAN

| Package Information          |             |  |
|------------------------------|-------------|--|
| Package Level 1 Units        | box 1 piece |  |
| Package Level 1 Gross Weight | 2.25 kg     |  |
| Ordering                     |             |  |
| Minimum Order Quantity       | 1           |  |
| Customs Tariff Number        | 85364900    |  |

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