

General Information

| | |
|-------------------------------|---|
| Extended Product Type: | AF205-30-11-11 24-60V 50/60Hz / 20-60V DC |
| Product ID: | 1SFL527002R1111 |
| EAN: | 7320500480540 |
| Catalog Description: | AF205-30-11-11 Contactor |
| Long Description: | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 24-60 V, 50 and 60 Hz, 20-60 V DC |

Categories

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

Ordering

| | |
|--------------------------------|---------------|
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85364900 |
| EAN: | 7320500480540 |

Dimensions

| | |
|----------------------------|----------|
| Product Net Depth: | 152.0 mm |
| Product Net Height: | 196.0 mm |
| Product Net Weight: | 2.778 kg |
| Product Net Width: | 105.0 mm |

Container Information

| | |
|--------------------------------------|---------------|
| Package Level 1 Width: | 200 mm |
| Package Level 1 Length: | 220 mm |
| Package Level 1 Height: | 280 mm |
| Package Level 1 Gross Weight: | 3.228 kg |
| Package Level 1 EAN: | 7320500480540 |
| Package Level 1 Units: | 1 piece |

Technical

| | |
|--|--|
| Number of Main Contacts NC: | 0 |
| Number of Auxiliary Contacts NO: | 1 |
| Number of Auxiliary Contacts NC: | 1 |
| Rated Operational Voltage: | Main Circuit 1000 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 350 A |
| Rated Operational Current AC-1 (I_e): | (690 V) 55 °C 300 A (690 V) 40 °C 350 A (1000 V) 40 °C 275 A (1000 V) 55 °C 250 A (690 V) 70 °C 240 A (1000 V) 70 °C 200 A |
| Rated Operational Current AC-3 (I_e): | (1000 V) 55 °C 100 A (690 V) 55 °C 165 A (415 V) 55 °C 205 A (220 / 230 / 240 V) 55 °C 205 A (440 V) 55 °C 205 A (380 / 400 V) 55 °C 205 A (500 V) 55 °C 165 A |
| Rated Operational Power AC-3 (P_e): | (500 V) 110 kW (1000 V) 132 kW (690 V) 160 kW (220 / 230 / 240 V) 55 kW (380 / 400 V) 110 kW (440 V) 132 kW (415 V) 110 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 400 A |
| Rated Short-time Withstand Current (I_{cw}): | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 A |

at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 A
 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 A
 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 A

| | |
|---|--|
| Maximum Breaking Capacity: | cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 3500 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 2500 A |
| Maximum Electrical Switching Frequency: | AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour |
| Rated Operational Current DC-1 (I_e): | (110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A |
| Rated Operational Current DC-3 (I_e): | (110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A |
| Rated Operational Current DC-5 (I_e): | (110 V) 2 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 40 °C 275 A |
| Rated Insulation Voltage (U_i): | acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 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 U _c Min. ... 1.1 x U _c Max. (at θ ≤ 70 °C) °C |
| Rated Control Circuit Voltage (U_c): | 60 Hz 24...60 V 50 Hz 24...60 V DC Operation 20...60 V |
| Coil Consumption: | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 165 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A Pull-in at Max. Rated Control Circuit Voltage DC 205 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 165 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A |
| Operate Time: | Between Coil Energization and NO Contact Closing 25...55 ms Between Coil De-energization and NO Contact Opening 37...47 ms |
| Connecting Capacity Main Circuit: | Rigid Al-Cable 1x95...185 mm ² Flexible 2x50...95 mm ² Rigid Cu-Cable 2x50...120 mm ² |
| Connecting Capacity Auxiliary Circuit: | Solid 2x1...4 mm ² Flexible with Insulated Ferrule 2x0.75...2.5 mm ² Stranded 2x1...4 mm ² Flexible 2x0.75...2.5 mm ² Flexible with Ferrule 1x0.75...2.5 mm ² |
| 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 |
| Terminal Type: | Main Circuit: Bars |
| Number of Main Contacts NO: | 3 |

Environmental

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

Technical UL/CSA

| | |
|--|--|
| General Use Rating UL/CSA: | (600 V AC) 300 A |
| Horsepower Rating UL/CSA: | (208 V AC) Three Phase 60 Hp (440 ... 480 V AC) Three Phase 150 Hp (550 ... 600 V AC) Three Phase 200 Hp (220 ... 240 V AC) Three Phase 75 Hp (200 V AC) Three Phase 60 Hp |
| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V |

Certificates and Declarations (Document Number)

| | |
|---|-----------------|
| Instructions and Manuals: | 1SFC100008M0201 |
| CB Certificate: | SE-71798 |
| Data Sheet, Technical Information: | 1SFC101070D0201 |
| Declaration of Conformity - CE: | 2CMT004613 |
| RINA Certificate: | ELE060313XG/002 |
| RoHS Information: | 1SFC101055D0202 |

Classifications

| | |
|------------------------------------|---|
| E-nummer: | 3210140 |
| ETIM 4: | EC000066 - Magnet contactor, AC-switching |
| ETIM 5: | EC000066 - Magnet contactor, AC-switching |
| UNSPSC: | 39121529 |
| Object Classification Code: | Q |

