

AF370-40-11-12



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

General Information

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| Extended Product Type: | AF370-40-11-12 |
| Product ID: | 1SFL607102R1211 |
| EAN: | 7320500504369 |
| Catalog Description: | AF370-40-11-12 Contactor |
| Long Description: | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 48-130 V, 50/60 Hz and DC |

Ordering

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

Dimensions

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| Product Net Width: | 184,4 mm |
| Product Net Depth / Length: | 180 mm |
| Product Net Height: | 225,4 mm |
| Product Net Weight: | 5.55 kg |

Technical

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| Number of Main Contacts NO: | 4 |
| 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 60 Hz |
| Conventional Free-air Thermal Current (I_{th}): | acc. to IEC 60947-4-1, Open Contactors $q = 40$ °C 525 A |
| Rated Operational Current AC-1 (I_e): | (690 V) 40 °C 525 A (1000 V) 40 °C 400 A (690 V) 70 °C 350 A (690 V) 60 °C 425 A (1000 V) 60 °C 350 A (1000 V) 70 °C 290 A |
| Rated Operational Current AC-3 (I_e): | (220 / 230 / 240 V) 55 °C 370 A (415 V) 55 °C 370 A (440 V) 55 °C 370 A (380 / 400 V) 55 °C 370 A |

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| Rated Operational Power AC-3 (P_e): | (220 / 230 / 240 V) 110 kW (380 / 400 V) 200 kW (440 V) 200 kW (415 V) 200 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 630 A |
| Rated Short-time Withstand Current (I_{cw}): | at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1709 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2960 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1208 A |
| Maximum Breaking Capacity: | cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 5000 A |
| Maximum Electrical Switching Frequency: | AC-1 300 cycles per hour |
| 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 48 ... 130 V 50 Hz 48 ... 130 V DC Operation 48 ... 130 V |
| Coil Consumption: | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 340 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 17 V·A Pull-in at Max. Rated Control Circuit Voltage DC 360 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 340 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 17 V·A |
| Operate Time: | Between Coil De-energization and NO Contact Opening 45 ... 80 ms Between Coil Energization and NO Contact Closing 30 ... 60 ms |
| Connecting Capacity Main Circuit: | Rigid Al-Cable 1 x 185 ... 240 mm ² Flexible 2 x 70 ... 185 mm ² Rigid Cu-Cable 2 x 70 ... 185 mm ² |
| Connecting Capacity Auxiliary Circuit: | Solid 2 x 1 ... 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm ² Stranded 2 x 1 ... 4 mm ² Flexible 2x0.75 ... 2.5 mm ² Flexible with Ferrule 1 x 0.75 ... 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

Environmental

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

Maximum Operating Altitude Permissible: 3000 m

Technical UL/CSA

Maximum Operating Voltage UL/CSA: Main Circuit 600 V

General Use Rating UL/CSA: (600 V AC) 420 A

Certificates and Declarations (Document Number)

CB Certificate: SEMKO_SE-77328

CCC Certificate: CQC_2014010304676670

cUL Certificate: 20140910-E73397

DNV GL Certificate: DNV_E-14043

LR Certificate: LR_14_70011(E1)

Container Information

Package Level 1 Units: 1 piece

Package Level 1 Gross Weight: 6.38 kg

Package Level 1 EAN: 7320500504369

Classifications

Object Classification Code: Q

E-nummer: 3210347

ETIM 4: EC000066 - Magnet contactor, AC-switching

ETIM 5: EC000066 - Magnet contactor, AC-switching

ETIM 6: EC000066 - Power contactor, AC switching
