



Automatización Eléctrica

Especialistas en Automatización

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General Information

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|------------------------|--|
| Extended Product Type: | AF370-30-22-14 250-500V 50/60Hz / DC |
| Product ID: | 1SFL607002R1422 |
| EAN: | 7320500481936 |
| Catalog Description: | AF370-30-22-14 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 250-500 V, 50/60 Hz and DC |

Categories

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

Ordering

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|-------------------------|---------------|
| EAN: | 7320500481936 |
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85364900 |

Dimensions

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| Product Net Width: | 140.0 mm |
| Product Net Depth: | 180.0 mm |
| Product Net Height: | 225.0 mm |
| Product Net Weight: | 4.675 kg |

Container Information

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| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 223 mm |
| Package Level 1 Length: | 175 mm |
| Package Level 1 Height: | 270 mm |
| Package Level 1 Gross Weight: | 5.345 kg |
| Package Level 1 EAN: | 7320500481936 |

Technical

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| Number of Main Contacts NO: | 3 |
| Number of Main Contacts NC: | 0 |
| Number of Auxiliary Contacts NO: | 2 |
| Number of Auxiliary Contacts NC: | 2 |
| 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 $q = 40\text{ °C}$ 600 A |
| Rated Operational Current AC-1 (I_e): | (690 V) 55 °C 500 A (690 V) 40 °C 600 A (1000 V) 40 °C 400 A (1000 V) 55 °C 350 A (690 V) 70 °C 400 A (1000 V) 70 °C 290 A |
| Rated Operational Current AC-3 (I_e): | (1000 V) 55 °C 100 A (690 V) 55 °C 315 A (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 (500 V) 55 °C 315 A |
| Rated Operational Power AC-3 (P_e): | (500 V) 250 kW (1000 V) 132 kW (220 / 230 / 240 V) 110 kW (690 V) 315 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 | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2960 A |

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| (I_{cw}): | 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 15 min 600 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 cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 4000 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 450 A (220 V) 3 Poles in Series, 40 °C 450 A |
| Rated Operational Current DC-3 (I_e): | (110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A |
| Rated Operational Current DC-5 (I_e): | (110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 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 250...500 V 50 Hz 250...500 V DC Operation 250...500 V |
| Coil Consumption: | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 420 V·A Holding at Max. Rated Control Circuit Voltage DC 4.7 W Holding at Max. Rated Control Circuit Voltage 50 Hz 20.4 V·A Pull-in at Max. Rated Control Circuit Voltage DC 600 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 420 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 20.4 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 1x185...240 mm ² Rigid Cu-Cable 2x70...185 mm ² Flexible 2x70...185 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 1x0.75...2.5 mm ² Flexible with Ferrule 2x0.75...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

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| 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 |
| Maximum Operating Altitude Permissible: | 3000 m |
| RoHS Status: | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Technical UL/CSA

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| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V |
| General Use Rating UL/CSA: | (600 V AC) 520 A |
| Horsepower Rating UL/CSA: | (208 V AC) Three Phase 125 Hp (440 ... 480 V AC) Three Phase 300 Hp (550 ... 600 V AC) Three Phase 350 Hp (220 ... 240 V AC) Three Phase 150 Hp (200 V AC) Three Phase 125 Hp |

Certificates and Declarations (Document Number)

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| CB Certificate: | SE-73044M1 |
| Declaration of Conformity - CE: | 2CMT004749 |
| RINA Certificate: | ELE060313XG/002 |
| RoHS Information: | 1SFC101055D0202 |

Classifications

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| ETIM 5: | EC000066 - Magnet contactor, AC-switching |
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