



Electric Automation
Automation specialists

Reference: UA110-30-00
Code: 1SFL451022R8400

UA110-30-00 110V 50Hz / 110-120V
60Hz Contactor

Buy it at Electric Automation Network



A 3-phase Contactor suitable for Capacitor switching application. Maximum permissible peak current 30 times the nominal RMS current. Operated with a control voltage, versions from 24V to 690 V

Ordering

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|-------------------------|---------------|
| EAN: | 7320500188590 |
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85364900 |

Dimensions

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| Product Net Width: | 90.0 mm |
| Product Net Depth: | 123.5 mm |
| Product Net Height: | 148.0 mm |
| Product Net Weight: | 2.000 kg |

Container Information

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| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 140 mm |
| Package Level 1 Length: | 140 mm |
| Package Level 1 Height: | 170 mm |
| Package Level 1 Gross Weight: | 2 kg |
| Package Level 1 EAN: | 7320500188590 |

Technical

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| Number of Main Contacts NO: | 3 |
| Number of Main Contacts NC: | 0 |
| Number of Auxiliary Contacts NO: | 0 |
| Number of Auxiliary Contacts NC: | 0 |
| 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 $\theta = 40\text{ °C}$ 160 A |
| Rated Short-time Withstand Current (I_{cw}): | at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 175 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 800 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1320 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 350 A |
| Maximum Breaking Capacity: | $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 1160 A $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 800 A |
| Maximum Electrical Switching Frequency: | 240 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: | 10 million |
| Maximum Mechanical Switching Frequency: | 3600 cycles per hour |
| Coil Operating Limits: | (acc. to IEC 60947-4-1) $0.85 \times U_c$ Min. ... $1.1 \times U_c$ Max. (at $\theta \leq 70\text{ °C}$) °C |
| Rated Control Circuit Voltage (U_c): | 60 Hz 110 ... 120 V 50 Hz 110 V |
| Coil Consumption: | Pull-in at Max. Rated Control Circuit Voltage 60 Hz 450 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 26 V·A |
| Operate Time: | Between Coil Energization and NO Contact Closing 10 ... 25 ms Between Coil De-energization and NC Contact Closing 7 ... 15 ms |
| Connecting Capacity-Main Circuit: | Flexible with Cable End 1x10...70 mm ² Bar 30 mm ² Rigid 1x10...95 mm ² |
| Connecting Capacity-Auxiliary Circuit: | Solid 1x1...4 mm ² Flexible with Insulated Ferrule 1x0.75...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 |

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| 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 IP10 |
| Connecting terminals (delivered in open position) Main poles: | M8 hexagon socket screw with single connector |
| Terminal Type: | Cable Clamp |

Environmental

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| 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 -60...+80 °C |
| Maximum Operating Altitude Permissible: | 3000 m |
| Resistance to Shock acc. to IEC 60068-2-27: | Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: A 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: A 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: B1 10 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 g |
| 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 |
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Certificates and Declarations (Document Number)

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|---------------------------------|----------------------|
| CB Certificate: | SE-72473 |
| CCC Certificate: | CQC_2003010304088242 |
| Declaration of Conformity - CE: | 1SFA1-63 |
| RoHS Information: | 1SFC101046D0203 |

Classifications

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| ETIM 5: | EC001079 - Capacitor magnet contactor |
| UNSPSC: | 39121529 |

