



Electric Automation
Automation specialists

Reference: UA63-30-00
Code: 1SBL371022R2000

UA63-30-00 42V 50Hz / 48V 60Hz
Contactor

Buy it at [Electric Automation Network](#)



UA63 3-pole contactors for capacitor switching, can be used for the switching of capacitor banks whose inrush current peaks are less than or equal to 100 times nominal rms current. The table below gives the permissible powers according to operational voltage and temperature close to the contactor. It also specifies the maximum peak current \hat{I} values accepted by the contactor. The capacitors must be discharged (maximum residual voltage at terminals ≤ 50 V) before being re-energized when the contactors are making. In these conditions, electrical durability of contactors is equal to 100 000 operating cycles. The UA.. series 3-pole contactors are of the block type design. - Main poles: 3 main poles - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

Ordering

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|-------------------------|---------------|
| EAN: | 3471522090201 |
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85369085 |

Dimensions

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|---------------------|----------|
| Product Net Width: | 70 mm |
| Product Net Depth: | 108 mm |
| Product Net Height: | 110 mm |
| Product Net Weight: | 1.160 kg |

Container Information

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|-------------------------------|---------------|
| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 140 mm |
| Package Level 1 Length: | 146 mm |
| Package Level 1 Height: | 96 mm |
| Package Level 1 Gross Weight: | 1.16 kg |
| Package Level 1 EAN: | 3471522090201 |
| Package Level 2 Units: | 20 piece |
| Package Level 3 Units: | 160 piece |

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 690 V |
| Short-Circuit Protective Devices: | gG Type Fuses 1.5 ... 1.8 A |
| Rated Short-time Withstand Current (I_{cw}): | <p>at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A</p> <p>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 135 A</p> <p>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A</p> <p>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A</p> <p>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A</p> |
| Maximum Breaking Capacity: | <p>cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 1300 A</p> <p>cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 630 A</p> |
| Rated Insulation Voltage (U_i): | <p>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V</p> <p>acc. to UL/CSA 600 V</p> |
| Rated Impulse Withstand Voltage (U_{imp}): | 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 ... 1.1 x U_c (at $\theta \leq 55$ °C) °C |
| Rated Control Circuit Voltage (U_c): | <p>50 Hz 42 V</p> <p>60 Hz 48 V</p> |

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| Coil Consumption: | <p>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 18 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 18 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 W Average Holding Value 50 / 60 Hz 18 V·A Average Holding Value 50 / 60 Hz 5.5 W Average Pull-in Value 50 Hz 180 V·A Average Pull-in Value 60 Hz 210 V·A</p> |
| Operate Time: | <p>Between Coil Energization and NO Contact Closing 8 ... 27 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms</p> |
| Connecting Capacity-Main Circuit: | <p>Flexible with Cable End6 ... 16 mm² Rigid Cable6 ... 25 mm²</p> |
| Connecting Capacity-Auxiliary Circuit: | <p>Flexible with Cable End0.75 ... 2.5 mm² Rigid Cable1 ... 4 mm²</p> |
| Degree of Protection: | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 |
| Connecting terminals (delivered in open position) Main poles: | M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector |
| Terminal Type: | Screw Terminals |

Environmental

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| Ambient Air Temperature: | <p>Near Contactor for Operation in Free Air (0.85 ... 1.1 Uc) -40 ... +55 °C Near Contactor for Operation in Free Air (Uc) -40 ... +70 °C Close to Contactor for Storage -60 ... +80 °C</p> |
| Climatic Withstand: | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II |
| Maximum Operating Altitude Permissible: | 3000 m |
| RoHS Status: | Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1 |

Certificates and Declarations (Document Number)

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|---------------------------------|-------------------------|
| CB Certificate: | CB_FR2880_60002378 |
| CCC Certificate: | CCC_2003010304060093 |
| CSA Certificate: | CSA_1033838_LR056745 |
| cUL Certificate: | UL_071301E39231 |
| Declaration of Conformity - CE: | 1SBD250809C2000 |
| EAC Certificate: | EAC_RU C-FR ME77 B01010 |

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|-------------------|-----------------------|
| GOST Certificate: | GOST_POCCFRME77B07175 |
| RoHS Information: | 1SBD350079R1000 |
| UL Certificate: | UL_071301E39231 |

Classifications

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