Electric Automation
Automation specialists

Reference: UA75-30-00RA
Code: 1SBL411024R8600

UA75-30-00RA 400-415V 50Hz / 415-440V 60Hz Contactor

Buy it at Electric Automation Network

UA75..RA 3-pole contactors for capacitor switching, can be used in installations in which the peak current far exceeds 100 times nominal rms current. The contactors are delivered complete with their damping resistors and must be used without additional inductances (see table below). The capacitors must be discharged (maximum residual voltage at terminals ≤ 50 V) before being re-energized when the contactors are making. Their electrical durability is 250 000 operating cycles for Ue < 500 V and 100 000 operating cycles for 500 V ≤ Ue ≤ 690 V. The UA..RA contactors are fitted with a special front mounted block, which ensures the serial insertion of 3 damping resistors into the circuit to limit the current peak on energization of the capacitor bank. Their connection also ensures capacitor precharging in order to limit the second current peak occurring upon making of the main poles. The insertion of resistors allows to damp the highest current peak of the capacitor when switching on, whatever its level. The UA..RA 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: | 3471522305862 |
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85369085 |

## Dimensions

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| Product Net Width: | 70 mm |

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| Product Net Depth: | 140.4 mm |
| Product Net Height: | 150 mm |
| Product Net Weight: | 1.350 kg |

## Container Information

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| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 160 mm |
| Package Level 1 Length: | 200 mm |
| Package Level 1 Height: | 85 mm |
| Package Level 1 Gross Weight: | 1.35 kg |
| Package Level 1 EAN: | 3471522305862 |
| Package Level 2 Units: | 63 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 200 A |
| Rated Short-time Withstand Current ($I_{cw}$): | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 135 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A |
| Maximum Breaking Capacity: | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 1300 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 630 A |
| Maximum Electrical Switching Frequency: | 240 cycles per hour |
| Rated Insulation Voltage ($U_i$): | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 V |
| Rated Impulse Withstand Voltage ($U_{imp}$): | 8 kV |
| Coil Operating Limits: | (acc. to IEC 60947-4-1)0.85 ... 1.1 x Uc (at θ ≤ 55 °C) °C |
| Rated Control Circuit Voltage ($U_c$): | 50 Hz 400 ... 415 V<br>60 Hz 415 ... 440 V |

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| Coil Consumption: | Average Holding Value 50 / 60 Hz 18 V·A<br>Average Holding Value 50 / 60 Hz 5.5 W<br>Average Holding Value 50 Hz 18 V·A<br>Average Holding Value 50 Hz 5.5 W<br>Average Holding Value 60 Hz 18 V·A<br>Average Holding Value 60 Hz 5.5 W<br>Average Pull-in Value 50 Hz 180 V·A<br>Average Pull-in Value 60 Hz 210 V·A |
| Operate Time: | Between Coil Energization and NO Contact Closing 8 ... 27 ms<br>Between Coil De-energization and NO Contact Opening 4 ... 11 ms |
| Connecting Capacity-Main Circuit: | Rigid Cable6 ... 16 mm²<br>Flexible with Cable End6 ... 10 mm² |
| Connecting Capacity-Auxiliary Circuit: | Rigid Cable1 ... 4 mm²<br>Flexible with Cable End0.75 ... 2.5 mm² |
| 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: | Near Contactor for Operation in Free Air (0.85 ... 1.1 Uc) -40 ... +55 °C<br>Near Contactor for Operation in Free Air (Uc) -40 ... +70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
| 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: | No declaration needed |

## Certificates and Declarations (Document Number)

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| CB Certificate: | CB_FR3449_60016915-509739D |
| CSA Certificate: | CSA_1033838_LR056745 |
| Declaration of Conformity - CE: | 1SBD250846C2000 |
| EAC Certificate: | EAC_RU C-FR ME77 B01010 |
| GOST Certificate: | GOST_POCCFRME77B07175 |
| RoHS Information: | 1SBC101059D0201 |

## Classifications

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