

Specifications



Contactor, UEC1-32D, 3P (3NO),
AC Coil

Main

| | |
|--|---|
| Product Series | UEC1 |
| Product or Component Type | Contactor |
| Device Short Name | UEC1-32D |
| Contactor Application | Motor control Resistive load |
| Utilisation Category | AC-3 AC-4 AC-1 |
| Poles Description | 3P |
| Rated Operational Voltage [Ue] | Power circuit: ≤ 690 V AC 50/60Hz |
| Rated Operational Current [Ie] | 32 A (at ≤60 °C) at ≤ 400 V AC AC-3 for power circuit 50 A (at ≤60 °C) at ≤ 690 V AC AC-1 for power circuit |
| [Us] Control Circuit Voltage (AC 50/60Hz) | Voltage (V): 24 36 42 48 110 115 127 220 230 240 380 400 415 Code: B7 CC7 D7 E7 F7 FE7 FC7 M7 P7 U7 Q7 V7 N7 |

Complementary

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|----------------|--|
| Motor Power kW | 7.5 kW at 220/230 V AC 50/60 Hz (AC-3) 15 kW at 380/400 V AC 50/60 Hz (AC-3) 18.5 kW at 660/690 V AC 50/60 Hz (AC-3) |
| Motor Power hp | 2 hp at 110...120 V AC 50/60 Hz for 1 phase motors 5 hp at 200...208 V AC 50/60 Hz for 1 phase motors 5 hp at 220...240 V AC 50/60 Hz for 1 phase motors 10 hp at 200...208 V AC 50/60 Hz for 3 phases motors 10 hp at 220...240 V AC 50/60 Hz for 3 phases motors 20 hp at 440...480 V AC 50/60 Hz for 3 phases motors 25 hp at 550...600 V AC 50/60 Hz for 3 phases motors |

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| Pole Contact Composition | 3 NO |
| Conventional Free Air Thermal Current [Ith] | 50 A (at ≤60 °C) for power circuit 10 A (at ≤60 °C) for signalling circuit |
| Rated Short-Time Withstand Current [Icw] | 260 A ≤40 °C - 10 s for power circuit 430 A ≤40 °C - 1 s for power circuit 60 A ≤40 °C - 10 min for power circuit 138 A ≤40 °C - 1 min for power circuit |
| Associated Fuse Rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 50 A gG at ≤ 690 V coordination type 2 for power circuit |
| Average Impedance | 2 mΩ - Ith 50 Hz for power circuit |
| [Ui] Rated Insulation Voltage | Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V UL Certified Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 600 V UL Certified |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV conforming to IEC 60947 |
| Mechanical Durability | 10 M cycles |
| Electrical Durability | 1.1 M cycles 32 A AC-3 at Ue ≤ 400 V |
| Control Circuit Type | AC at 50/60 Hz standard |
| Coil Technology | Without built-in suppressor module |
| Control Circuit Voltage Limits | 0.8...1.1 Us (-40...60 °C): operational AC 50 Hz 0.85...1.1 Us (-40...60 °C): operational AC 60 Hz 1...1.1 Us (60...70 °C): operational AC 50/60 Hz 0.2...0.75 Us (-40...70 °C): drop-out AC 50/60 Hz |
| Inrush Power in VA | 75 VA 50/60 Hz (at 25 °C) |
| Hold-in Power Consumption in VA | 9.5 VA 50/60 Hz (at 25 °C) |
| Operating Time | Power circuit: 12...22 ms closing, 4...19 ms opening Signalling circuit (NO): 15...26 ms closing, 4...19 ms opening Signalling circuit (NC): 4...19 ms opening, 12...32 ms closing |
| Maximum Operating Rate | Electrical: 750 cycs/h Mechanical: 3600 cycs/h |
| Connections - Terminals | Power circuit: screw clamp terminals 1 2.5...10 mm ² (AWG 14...8) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.5...10 mm ² (AWG 14...8) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1.5...10 mm ² (AWG 16...8) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1.5...6 mm ² (AWG 16...10) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1.5...10 mm ² (AWG 16...8) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.5...10 mm ² (AWG 14...8) - cable stiffness: solid without cable end |

Control circuit: screw clamp terminals 1 1...4 mm² (AWG 18...12)

- cable stiffness: flexible without cable end

Control circuit: screw clamp terminals 2 1...4 mm² (AWG 18...12)

- cable stiffness: flexible without cable end

Control circuit: screw clamp terminals 1 1...4 mm² (AWG 18...12)

- cable stiffness: flexible with cable end

Control circuit: screw clamp terminals 2 1...2.5 mm² (AWG

18...14) - cable stiffness: flexible with cable end

Control circuit: screw clamp terminals 1 1...4 mm² (AWG 18...12)

- cable stiffness: solid without cable end

Control circuit: screw clamp terminals 2 1...4 mm² (AWG

18...12)- cable stiffness: solid without cable end

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| Tightening Torque | <p>Power circuit: 22 lb.in (2.5 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Power circuit: 22 lb.in (2.5 N·m) - on screw clamp terminals - with screwdriver Philips No 2</p> <p>Control circuit: 11 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Control circuit: 11 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2</p> |
| Auxiliary Contact Composition | 1NO1NC, 2NO2NC, other combinations can be customized |
| Minimum Switching Voltage | 24 V for signalling circuit |
| Minimum Switching Current | 0.1A for signalling circuit |
| Insulation Resistance | > 10 MΩ for signalling circuit |
| Mounting Support | Screw 35mm DIN Rail |

Environment

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| Standards | GB/T 14048.4, GB/T 14048.5, IEC/EN 60947-4-1, IEC/EN 60947-5-1, BS EN 60947-4-1, BS EN 60947-5-1, UL 60947-4-1, UL 60947-5-1 |
| Product Certifications | CCC, CE, UKCA, VDE, UL(cULus LISTED) |
| IP Degree of Protection | IP20 front face conforming to IEC 60529 |
| Permissible Ambient Air Temperature Around the Device | -40...60 °C for normal operating 60...70 °C with derating (for operation in the range of Us...1.1Us) Storage: -60...80 °C |
| Operating Altitude | 0...3000 m without derating |
| Fire Resistance | Current-carrying parts: 850 °C conforming to IEC 60695-2-11 |
| Height | 92.5 mm |
| Width | 45 mm |
| Depth | 100 mm |

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|------------|---------|
| Net Weight | 0.47 kg |
|------------|---------|

Packing Units

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|------------------------------|----------|
| Unit Type of Package 1 | 1 box |
| Number of Units in Package 1 | 1 pcs |
| Package 1 Height | 11.1 cm |
| Package 1 Width | 5.0 cm |
| Package 1 Length | 9.9 cm |
| Package 1 Weight | 0.50 kg |
| Unit type of Package 2 | 1 carton |
| Number of Units in Package 2 | 30 pcs |
| Package 2 Height | 26.4 cm |
| Package 2 Width | 29.0 cm |
| Package 2 Length | 33.7 cm |
| Package 2 Weight | 15.30 kg |

Offer Sustainability

| | |
|----------------------------|------------|
| REACH Regulation | Conforming |
| EU RoHS Directive | Conforming |
| Mercury Free | Yes |
| China RoHS Regulation | Conforming |
| RoHS Exemption Information | Yes |

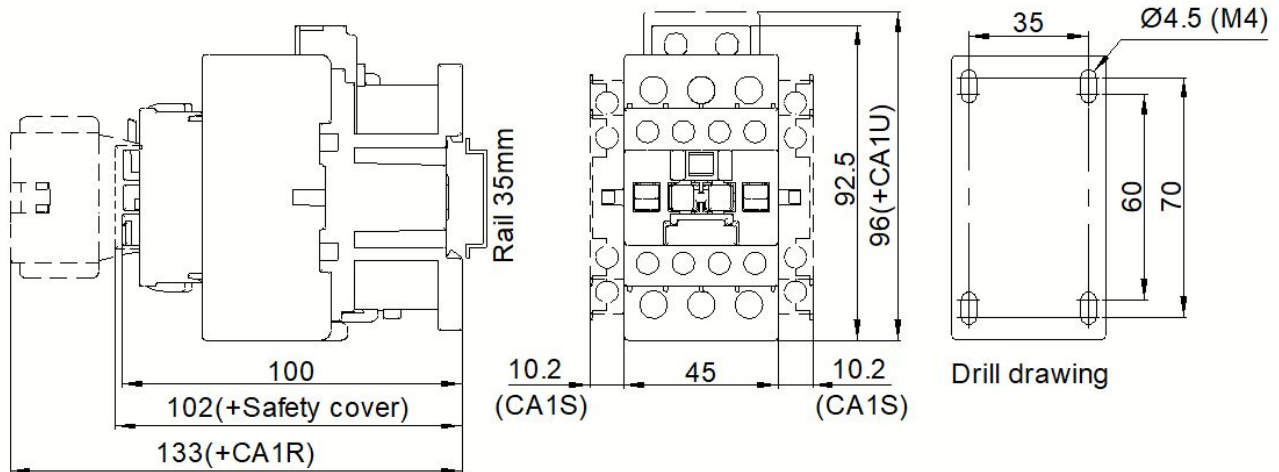
Contractual Warranty

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|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

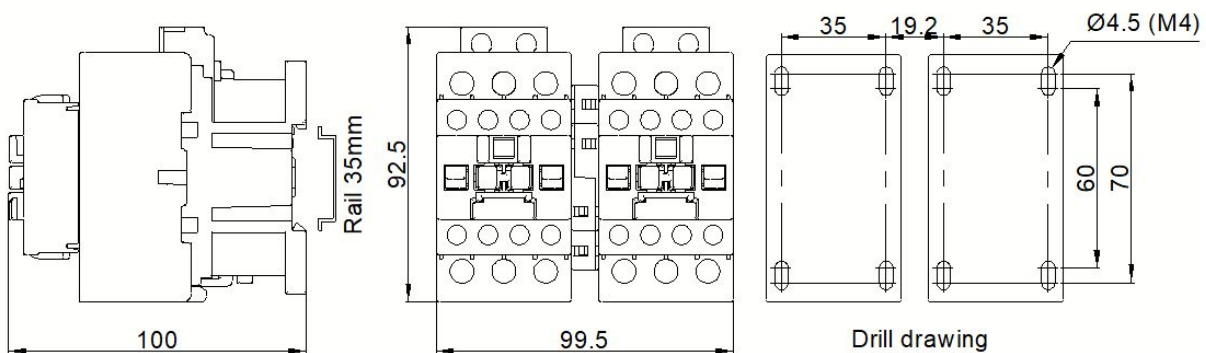
Dimensions

UEC1-25...38 (3P, AC coil)

AC contactor:

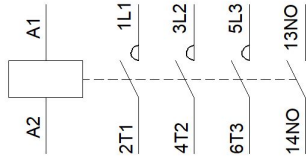
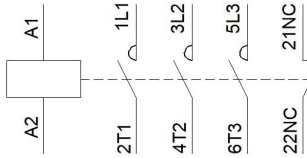
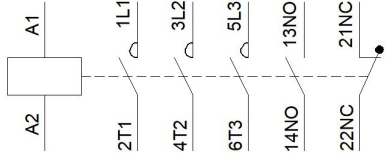
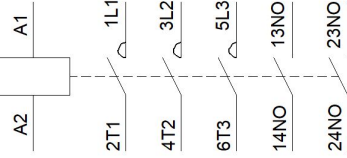
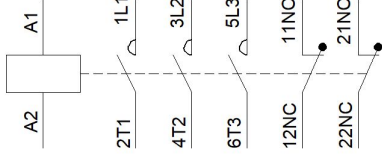
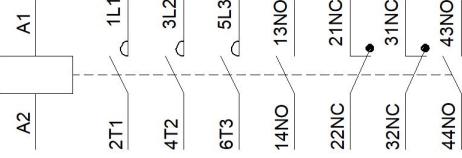
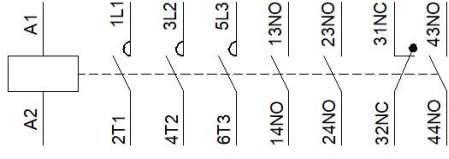
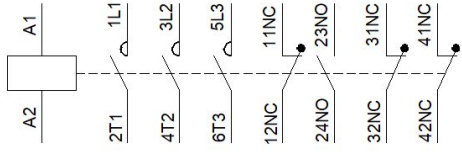
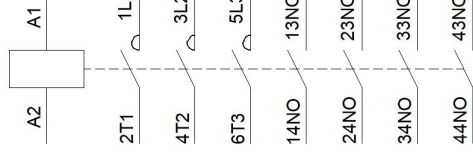
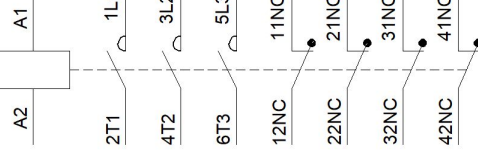


Interlock contactor:

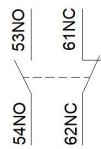
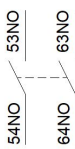
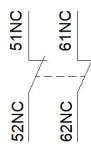
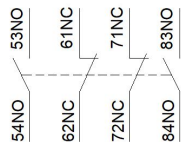
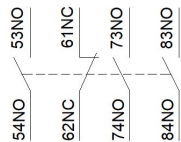
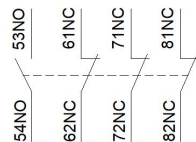
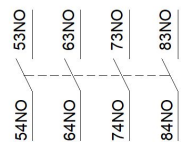
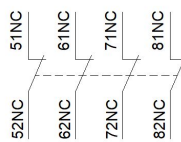


Note: The unit is mm. The tolerance for mounting holes: ± 0.5 ; for other external dimensions: ± 1.5 , unless otherwise specified.

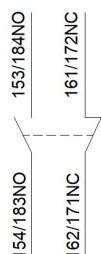

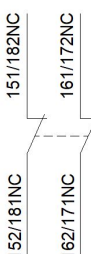
Wiring diagram

| AC contactor | |
|---|--|
| 3P+1NO | 3P+1NC |
|  |  |
| 3P+1NO1NC | 3P+2NO |
|  |  |
| 3P+2NC | 3P+2NO2NC |
|  |  |
| 3P+3NO1NC | 3P+1NO3NC |
|  |  |
| 3P+4NO | 3P+4NC |
|  |  |

Top mounting auxiliary contact block (instantaneous auxiliary contact)

| | | |
|---|---|--|
| CA1R11 (1NO1NC) | CA1R20 (2NO) | CA1R02 (2NC) |
|  |  |  |
| CA1R22 (2NO2NC) | CA1R31 (3NO1NC) | CA1R13 (1NO3NC) |
|  |  |  |
| CA1R40 (4NO) | CA1R04 (4NC) | |
|  |  | |

Side mounting auxiliary contact block (instantaneous auxiliary contact)

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|---|---|---|
| CA1S11 (1NO1NC) | CA1S20 (2NO) | CA1S02 (2NC) |
|  |  |  |

