

Specifications



Contactor, UEC3-06C, 3P (3NO), AC Coil

Main

| | | | | | | |
|--|--|----|-----|----|-----|---------------|
| Product Series | UEC3 | | | | | |
| Product or Component Type | Contactor | | | | | |
| Device Short Name | UEC3-06C | | | | | |
| Contactor Application | Motor control | | | | | |
| | Resistive load | | | | | |
| Utilisation Category | AC-3 | | | | | |
| | AC-4 | | | | | |
| | AC-1 | | | | | |
| Poles Description | 3P | | | | | |
| [Ue] Rated Operational Voltage | Power circuit: ≤ 690 V AC 50/60Hz | | | | | |
| [Ie] Rated Operational Current | 6 A (at ≤ 60 °C) at ≤ 400 V AC AC-3 for power circuit | | | | | |
| | 5 A (at ≤ 60 °C) at ≤ 400 V AC AC-4 for power circuit | | | | | |
| | 20 A (at ≤ 60 °C) at ≤ 690 V AC AC-1 for power circuit | | | | | |
| [Us] Control Circuit Voltage (AC 50/60Hz) | Voltage (V): | 24 | 36 | 48 | 110 | 220...230 380 |
| | Code: | B7 | CC7 | E7 | F7 | M7 Q7 |

Complementary

| | |
|--------------------------|---|
| Motor Power kW | 1.5 kW at 220/230 V AC 50/60 Hz (AC-3) |
| | 2.2 kW at 380/400 V AC 50/60 Hz (AC-3) |
| | 3 kW at 660/690 V AC 50/60 Hz (AC-3) |
| Motor Power hp | 1.5 hp at 110...120 V AC 50/60 Hz for 1 phase motors |
| | 0.75 hp at 200...208 V AC 50/60 Hz for 1 phase motors |
| | 1 hp at 220...240 V AC 50/60 Hz for 1 phase motors |
| | 2 hp at 200...208 V AC 50/60 Hz for 3 phases motors |
| | 2 hp at 220...240 V AC 50/60 Hz for 3 phases motors |
| | 5 hp at 440...480 V AC 50/60 Hz for 3 phases motors |
| | 5 hp at 550...600 V AC 50/60 Hz for 3 phases motors |
| Pole Contact Composition | 3 NO |

| | |
|---|---|
| [Ith] Conventional Free Air Thermal Current | 20 A (at $\leq 60^{\circ}\text{C}$) for power circuit 10 A (at $\leq 60^{\circ}\text{C}$) for signalling circuit |
| [Icw] Rated Short-time Withstand Current | 80 A $\leq 40^{\circ}\text{C}$ - 10 s for power circuit 45 A $\leq 40^{\circ}\text{C}$ - 1 min for power circuit 20 A $\leq 40^{\circ}\text{C}$ - 10 min for power circuit |
| Associated Fuse Rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 32 A gG at $\leq 690\text{ V}$ coordination type 2 for power circuit |
| Average Impedance | 2.7 m Ω - 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 | 1.0 M cycles 6 A AC-3 at $U_e \leq 400\text{ V}$ |
| Control Circuit Type | AC at 50/60 Hz standard |
| Coil Technology | Without built-in suppressor module |
| Control Circuit Voltage Limits | 0.85...1.1 U_s ($-40\ldots 60^{\circ}\text{C}$): operational AC 50/60 Hz 0.2...0.75 U_s ($-40\ldots 60^{\circ}\text{C}$): drop-out AC 50/60 Hz |
| Inrush Power in VA | 70 VA 50/60 Hz (at 25°C) |
| Hold-in Power Consumption in VA | 9 VA 50/60 Hz (at 25°C) |
| Operating Time | Power circuit: 12...22 ms closing, 4...22 ms opening Signalling circuit (NO): 15...26 ms closing, 4...22 ms opening Signalling circuit (NC): 4...19 ms opening, 12...32 ms closing |
| Maximum Operating Rate | Electrical: 1200 cycs/h Mechanical: 3600 cycs/h |
| Connections - Terminals | Power circuit: screw clamp terminals 1 1...4 mm ² (AWG 18...12)- cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1...4 mm ² (AWG 18...12) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1...4 mm ² (AWG 18...12) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...2.5 mm ² (AWG 18...14)- cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1...4 mm ² (AWG 18...12)- cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1...4 mm ² (AWG 18...12) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...4 mm ² (AWG 18...12)- cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² (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

Control circuit, Power circuit: M3.5, Terminal width ≤ 8.1 mm (0.318 in)

| | |
|-------------------------------|---|
| Tightening Torque | <p>Power circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Power circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2</p> <p>Control circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Control circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2</p> |
| Auxiliary Contact Composition | 1NO, 1NC |
| 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

| | |
|---|--|
| 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 | 74 mm |
| Width | 45 mm |
| Depth | 80 mm |
| Net Weight | 0.31 kg |

Packing Units

| | |
|------------------------------|--------|
| Unit Type of Package 1 | 1 box |
| Number of Units in Package 1 | 1 pcs |
| Package 1 Height | 8.3 cm |

| | |
|------------------------------|----------|
| Package 1 Width | 4.8 cm |
| Package 1 Length | 7.8 cm |
| Package 1 Weight | 0.36 kg |
| Unit type of Package 2 | 1 carton |
| Number of Units in Package 2 | 50 pcs |
| Package 2 Height | 19.5 cm |
| Package 2 Width | 26.0 cm |
| Package 2 Length | 41.0 cm |
| Package 2 Weight | 17.3 kg |

Offer Sustainability

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

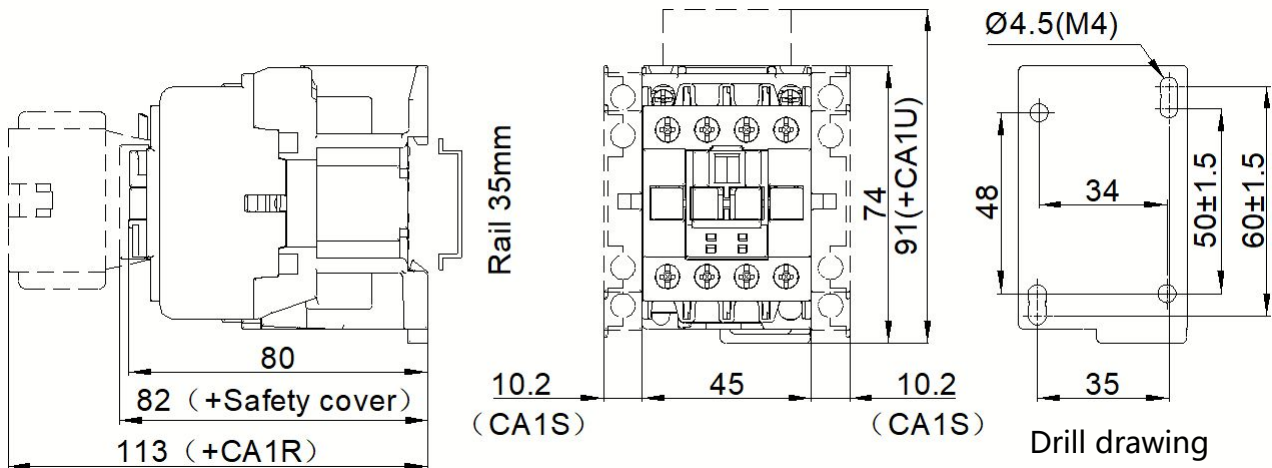
Contractual Warranty

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

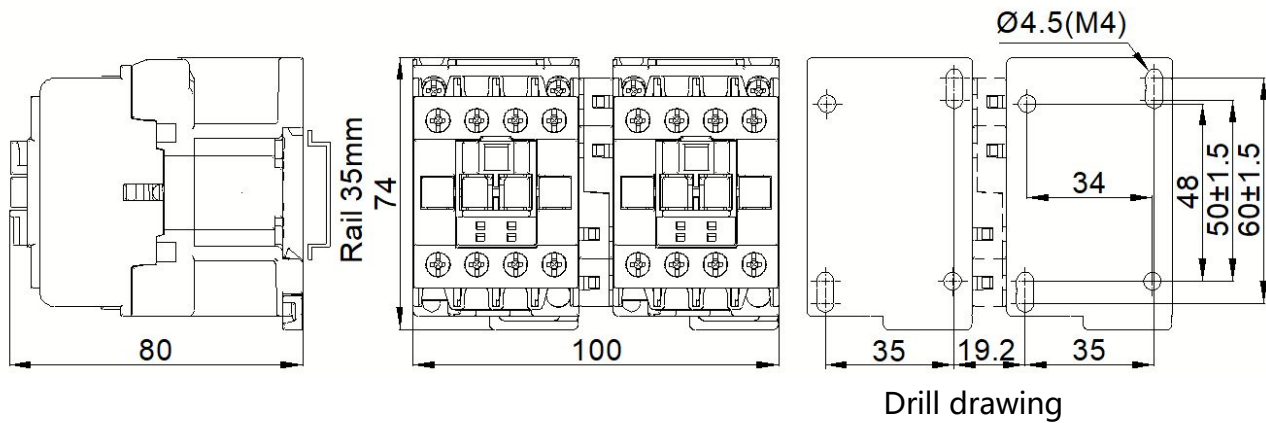
Dimensions

UEC3-06...25 (3P, AC coil)

AC contactor:

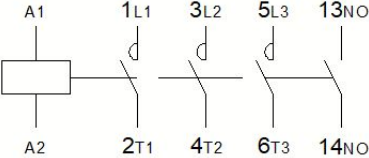
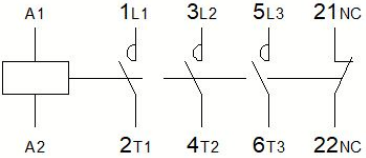
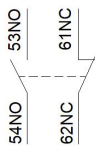
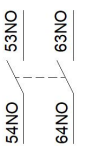
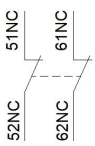
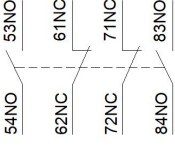
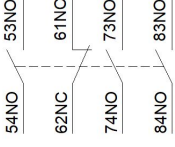
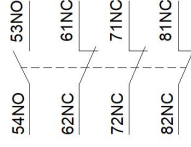
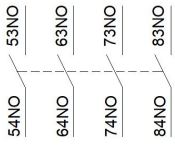
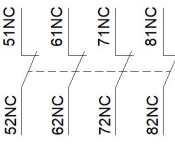
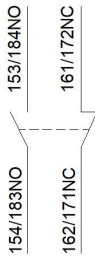
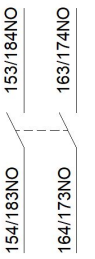
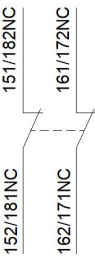


Interlock contactor:



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