

Specifications



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

Main

Product Series	UEC3					
Product or Component Type	Contactor					
Device Short Name	UEC3-06N					
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	1.4 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
Average Inrush Power in VA	70 VA 50/60 Hz (at 25°C)
Average 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...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 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

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

Tightening Torque	Power circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2
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

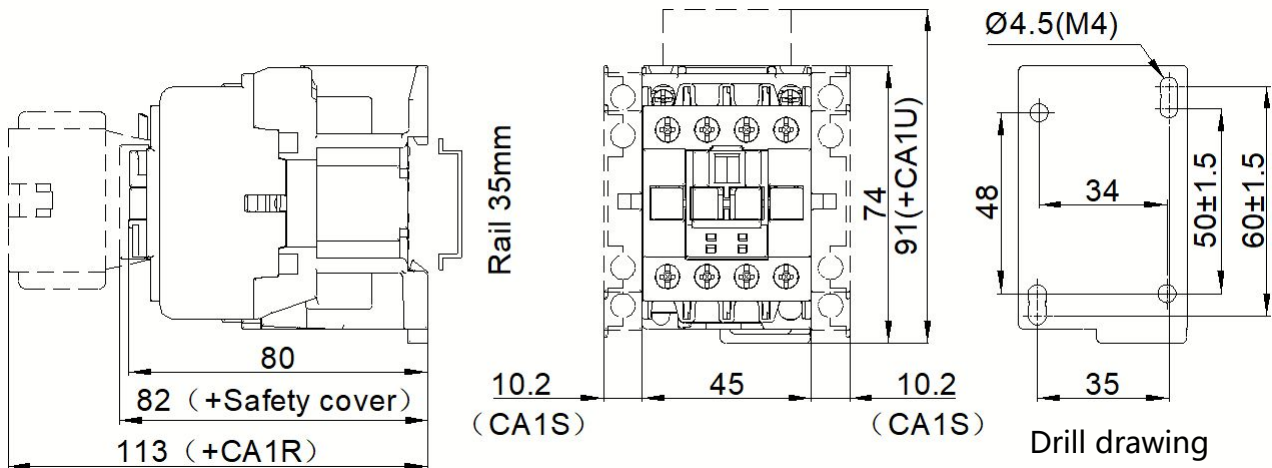
Contractual warranty

Warranty	18 months
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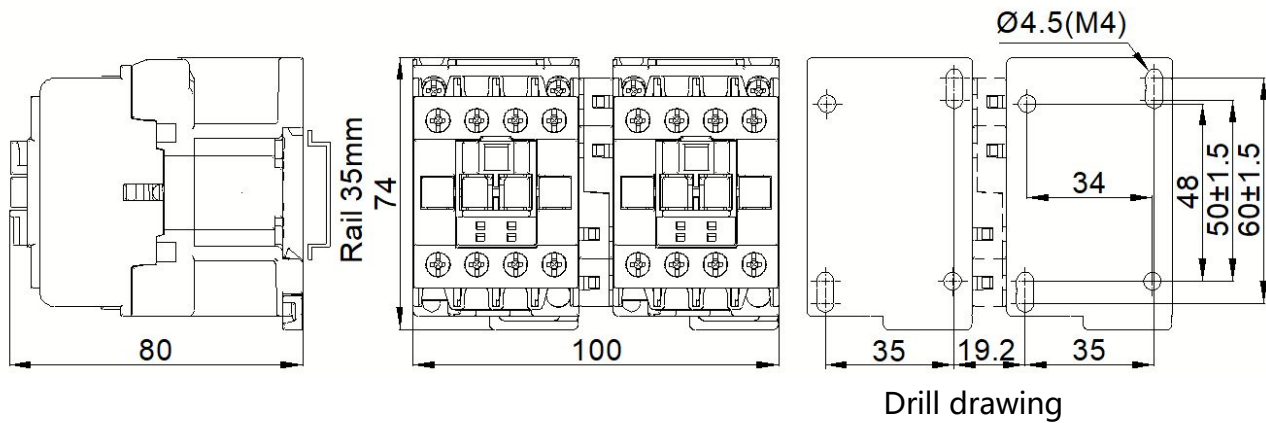
Dimensions

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

AC contactor:



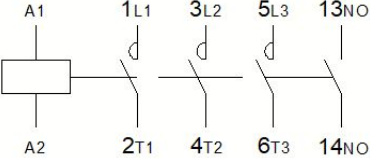
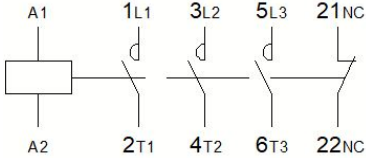
Interlock contactor:



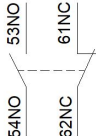
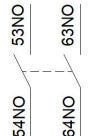
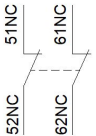
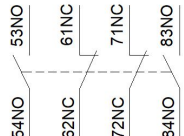

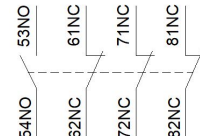
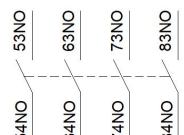
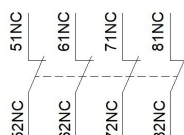
Note: The unit is mm. The tolerance for mounting holes: ± 0.5 ; for other external dimensions: ± 1.5 , unless otherwise specified.

Wiring diagram

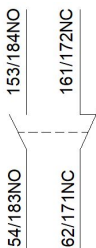
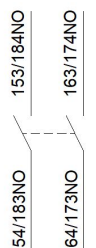
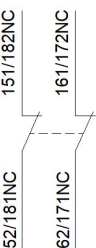
AC contactor

3P+1NO	3P+1NC
 <p>Diagram of a 3P+1NO contactor. It features a main switch with three poles (A1, A2, 2T1, 4T2, 6T3) and one normally open auxiliary contact (13NO, 14NO). The auxiliary contact is connected to the main switch through a series of intermediate contacts (1L1, 3L2, 5L3, 6T3).</p>	 <p>Diagram of a 3P+1NC contactor. It features a main switch with three poles (A1, A2, 2T1, 4T2, 6T3) and one normally closed auxiliary contact (21NC, 22NC). The auxiliary contact is connected to the main switch through a series of intermediate contacts (1L1, 3L2, 5L3, 6T3).</p>

Top mounting auxiliary contact block (instantaneous auxiliary contact)

CA1R11 (1NO1NC)	CA1R20 (2NO)	CA1R02 (2NC)
 <p>Diagram of CA1R11 contact block. It shows two contacts: a normally open contact (53NO, 54NO) and a normally closed contact (61NC, 62NC).</p>	 <p>Diagram of CA1R20 contact block. It shows two normally open contacts: (53NO, 54NO) and (63NO, 64NO).</p>	 <p>Diagram of CA1R02 contact block. It shows two normally closed contacts: (51NC, 52NC) and (61NC, 62NC).</p>
CA1R22 (2NO2NC)	CA1R31 (3NO1NC)	CA1R13 (1NO3NC)
 <p>Diagram of CA1R22 contact block. It shows four contacts: two normally open (53NO, 54NO, 61NC, 62NC) and two normally closed (71NC, 72NC, 83NO, 84NO).</p>	 <p>Diagram of CA1R31 contact block. It shows four contacts: three normally open (53NO, 54NO, 61NC, 62NC, 73NO, 74NO, 83NO, 84NO) and one normally closed (71NC, 72NC).</p>	 <p>Diagram of CA1R13 contact block. It shows four contacts: one normally open (53NO, 54NO, 61NC, 62NC, 71NC, 72NC, 81NC, 82NC) and three normally closed (73NO, 74NO, 83NO, 84NO).</p>
CA1R40 (4NO)	CA1R04 (4NC)	
 <p>Diagram of CA1R40 contact block. It shows four normally open contacts: (53NO, 54NO, 63NO, 64NO, 73NO, 74NO, 83NO, 84NO).</p>	 <p>Diagram of CA1R04 contact block. It shows four normally closed contacts: (51NC, 52NC, 61NC, 62NC, 71NC, 72NC, 81NC, 82NC).</p>	

Side mounting auxiliary contact block (instantaneous auxiliary contact)

CA1S11 (1NO1NC)	CA1S20 (2NO)	CA1S02 (2NC)
 <p>Diagram of CA1S11 contact block. It shows two contacts: a normally open contact (153/184NO, 161/172NC) and a normally closed contact (154/183NO, 162/171NC).</p>	 <p>Diagram of CA1S20 contact block. It shows two normally open contacts: (153/184NO, 163/174NO) and (154/183NO, 164/173NO).</p>	 <p>Diagram of CA1S02 contact block. It shows two normally closed contacts: (151/182NC, 161/172NC) and (152/181NC, 162/171NC).</p>