

Specifications



Contactor, UEC1-38D, 3P (3NO),
AC Coil

Main

Product Series	UEC1
Product or Component Type	Contactor
Device Short Name	UEC1-38D
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]	38 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

Motor Power kW	9 kW at 220/230 V AC 50/60 Hz (AC-3) 18.5 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	3 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 25 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

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]	310 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 150 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 M cycles 38 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: 600 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 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 mm ² (AWG 18...12) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 2 1...2.5 mm ² (AWG 18...14) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 1...4 mm ² (AWG 18...12) - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 2 1...4 mm ² (AWG 18...12) - cable stiffness: solid without cable end
Tightening Torque	Power circuit: 22 lb.in (2.5 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 22 lb.in (2.5 N·m) - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 11 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 11 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2
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

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

Net Weight	0.47 kg
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Packing Units

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

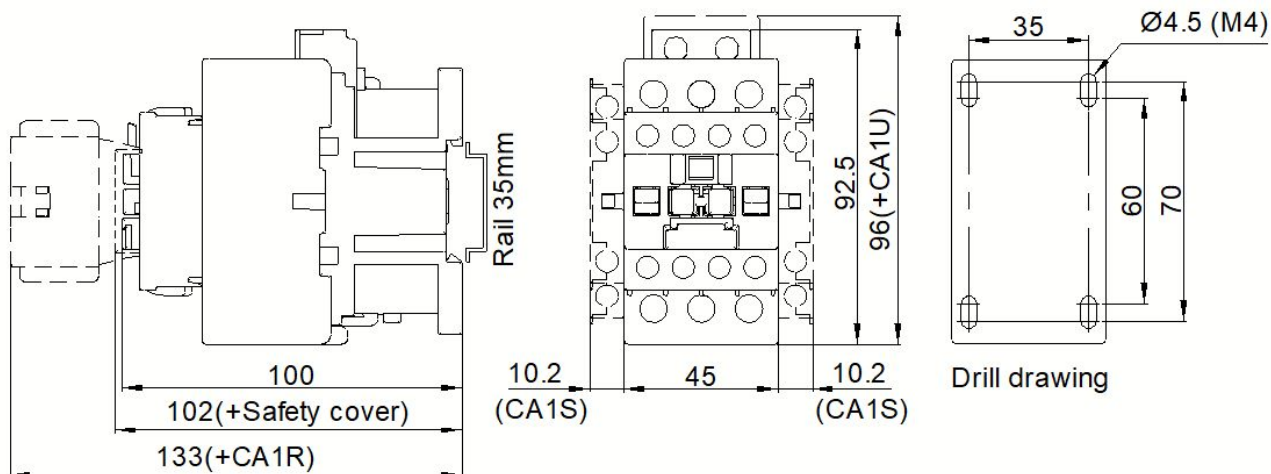
Contractual Warranty

Warranty	18 months
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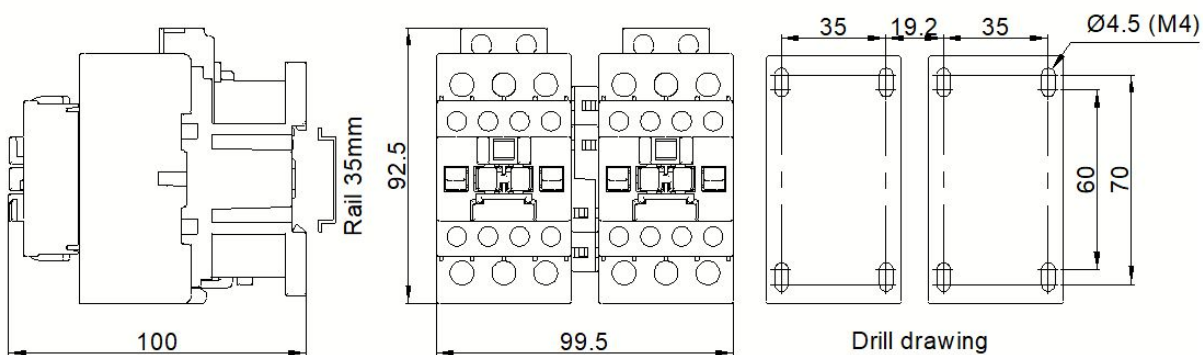
Dimensions

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

AC Contactor:

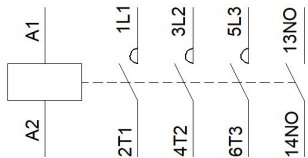
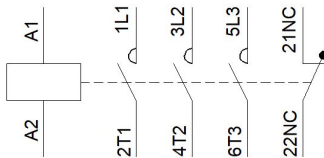
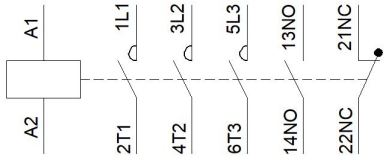
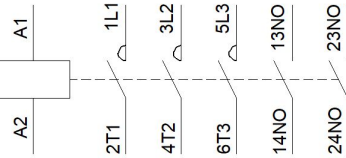
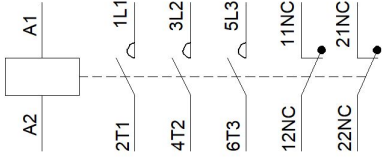
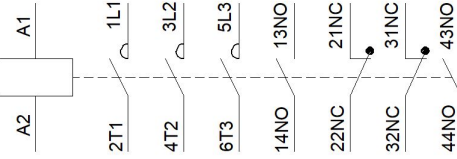
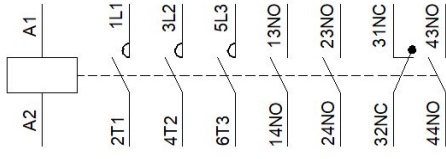
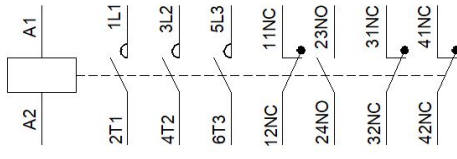
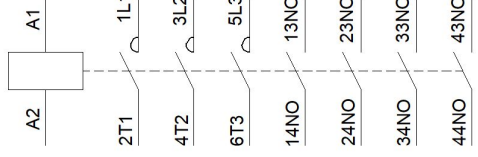
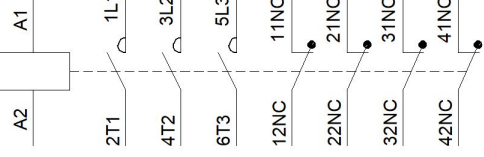


Interlock Contactor:

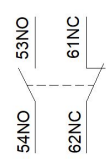
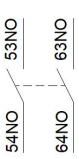
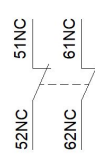
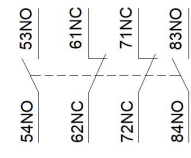
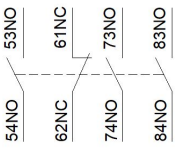
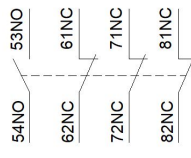
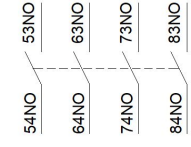
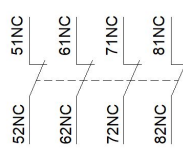


Note: The unit is mm. The tolerance for mounting holes: ± 0.5 ; for other external dimensions: ± 1.5 , unless otherwise specified.

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)

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