

Specifications



Contactor, UEC1-400F, 3P (3NO), AC Coil

Main

Product Series	UEC1			
Product or Component Type	Contactor			
Device Short Name	UEC1-400F			
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	400 A (at ≤ 40 °C) at ≤ 400 V AC AC-3 for power circuit			
	500 A (at ≤ 40 °C) at ≤ 690 V AC AC-1 for power circuit			
[Us] Control Circuit Voltage (AC 50/60Hz)	Voltage (V):	36	110	220 -230 380 -400
	Code:	CC7	F7	M7 Q7

Complementary

Motor Power kW	110 kW at 220/240 V AC 50/60 Hz (AC-3)
	200 kW at 380/400 V AC 50/60 Hz (AC-3)
	220 kW at 415 V AC 50/60 Hz (AC-3)
	250 kW at 440 V AC 50/60 Hz (AC-3)
	257 kW at 500 V AC 50/60 Hz (AC-3)
	280 kW at 660/690 V AC 50/60 Hz (AC-3)
Pole Contact Composition	3 NO
[Ith] Conventional Free Air Thermal Current	400 A (at ≤ 40 °C) for power circuit
[Icw] Rated Short-Time Withstand Current	3600 A ≤ 40 °C - 10 s for power circuit
	2400 A ≤ 40 °C - 30 s for power circuit

	1700 A ≤ 40 °C - 1 min for power circuit
	1200 A ≤ 40 °C - 3 min for power circuit
	1000 A ≤ 40 °C - 10 min for power circuit
Associated Fuse Rating	500 A gG at ≤ 400 V coordination type 2 for power circuit
Average Impedance	0.26 m Ω - lth 50 Hz for power circuit
[Ui] Rated Insulation Voltage	Power circuit: 1000 V conforming to IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947
Mechanical Durability	1 M cycles
Electrical Durability	0.3 M cycles 400 A AC-3 at $U_e \leq 400$ V
Control Dircuit Type	AC at 50/60 Hz standard
Control Circuit Voltage Limits	0.85...1.1 U_s (-5...40 °C): operational AC 50/60 Hz 0.2...0.75 U_s (-5...40 °C): drop-out AC 50/60 Hz
Inrush Power in VA	1000...1150 VA 50/60 Hz (at 25 °C)
Hold-in Power Consumption in VA	12...18 VA 50/60 Hz (at 25 °C)
Operating Time	40...75 ms closing, 100...170 ms opening
Maximum Operating Rate	Electrical: 300 cycs/h Mechanical: 1000 cycs/h
Connections - Terminals	Power circuit lugs-ring terminals 2 x 150 mm ² Power circuit bar 2 30 x 5 mm Power circuit bolted connection M10 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: 310 lb.in (35 N·m)- on bolt locking terminals - with external hexagonal wrench 16

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

Mounting Support	Screw
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Environment

Standards	GB/T 14048.4, IEC/EN 60947-4-1, BS EN 60947-4-1
Product Certifications	CCC, CE, UKCA
IP Degree of Protection	IP00 front face conforming to IEC 60529
Permissible Ambient Air Temperature Around the Device	-5...40 °C for normal operating 40...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	209 mm
Width	213 mm
Depth	219 mm
Net Weight	8.50 kg

Packing Units

Unit Type of Package 1	1 box
Number of Units in Package 1	1 pcs
Package 1 Height	25.5 cm
Package 1 Width	24.7 cm
Package 1 Length	29.0 cm
Package 1 Weight	9.50 kg
Unit type of Package 2	1 carton
Number of Units in Package 2	2 pcs
Package 2 Height	28.0 cm
Package 2 Width	32.0 cm
Package 2 Length	52.0 cm
Package 2 Weight	19.0 kg

Offer Sustainability

EU RoHS Directive	Conforming
Mercury Free	Yes
China RoHS Regulation	Conforming
RoHS Exemption Information	Yes

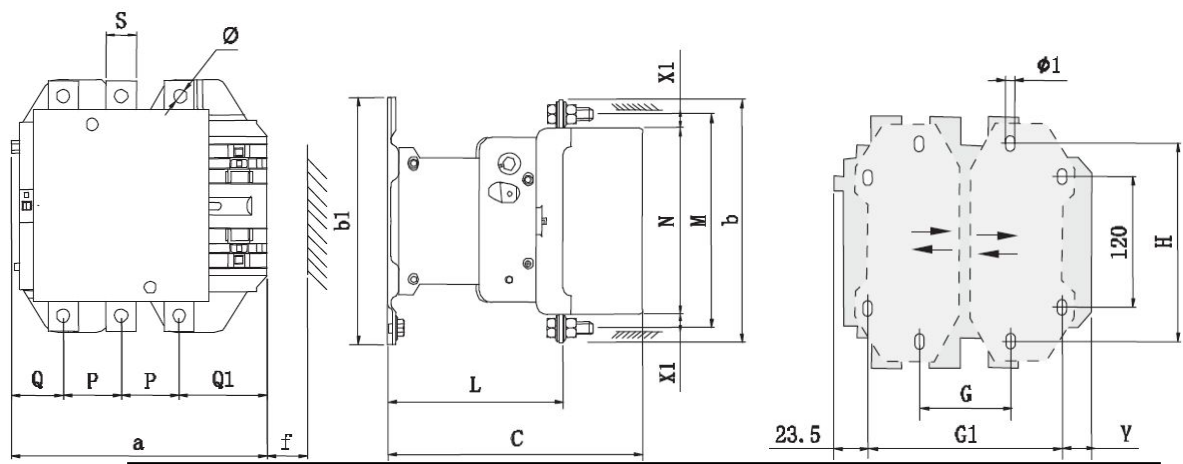
Contractual Warranty

Warranty	18 months
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Dimensions

UEC1-400F (3P, AC coil)

AC contactor:



	UEC1-400F
a	213
P	48
Q	43
Q1	74
S	25
Φ	M10
f	151
b	206
b1	209
M	181
N	158
C	219
L	145
G	80(66 ~ 102)
G1	170(156 ~ 192)

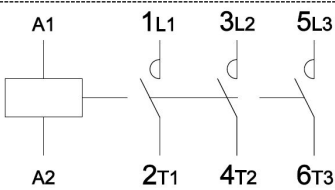
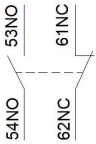
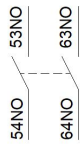
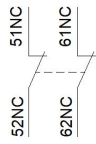
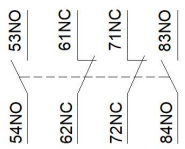
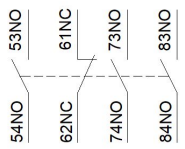
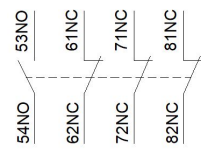
Φ1	8.5
H	180
Y	19.5
X1	15 ($U_e \leq 500V$)、20 ($U_e > 500V$)

Note: Unit: mm

f: Minimum distance required for coil removal.

X1: Minimum electrical clearance according to operational voltage and breaking capacity.

Wiring diagram

AC contactor		
3P		
		
Top mounting auxiliary contact block (instantaneous auxiliary contact)		
CA1R11 (1NO1NC)	CA1R20 (2NO)	CA1R02 (2NC)
		
CA1R22 (2NO2NC)	CA1R31 (3NO1NC)	CA1R13 (1NO3NC)
		
CA1R40 (4NO)	CA1R04 (4NC)	
	