

Product datasheet



Specifications



Contactor, UEC1-330F, 3P (3NO), DC Coil

Main

Product Series	UEC1		
Product or Component Type	Contactor		
Device Short Name	UEC1-330F		
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	330 A (at ≤ 40 °C) at ≤ 400 V AC AC-3 for power circuit		
	400 A (at ≤ 40 °C) at ≤ 690 V AC AC-1 for power circuit		
[Us] Control Circuit Voltage	Voltage (VDC):	48	110 220
	Code:	ED	FD MD

Complementary

Motor Power kW	100 kW at 220/240 V AC 50/60 Hz (AC-3)
	160 kW at 380/400 V AC 50/60 Hz (AC-3)
	180 kW at 415 V AC 50/60 Hz (AC-3)
	200 kW at 440 V AC 50/60 Hz (AC-3)
	200 kW at 500 V AC 50/60 Hz (AC-3)
	220 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	2650 A ≤ 40 °C - 10 s for power circuit
	1800 A ≤ 40 °C - 30 s for power circuit
	1300 A ≤ 40 °C - 1 min for power circuit
	900 A ≤ 40 °C - 3 min for power circuit

	750 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	0.28 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	3 M cycles
Electrical Durability	0.5 M cycles 330 A AC-3 at $U_e \leq 400$ V
Control Dircuit Type	DC
Control Circuit Voltage Limits	0.85...1.1 Us (-5...40 °C): operational 0.1...0.75 Us (-5...40 °C): drop-out
Inrush Power in VA	655...973 VA (at 25 °C)
Hold-in Power Consumption in VA	3.6...5.3 VA (at 25 °C)
Operating Time	40...50 ms closing, 40...65 ms opening
Maximum Operating Rate	Electrical: 600 cycs/h Mechanical: 1000 cycs/h
Connections - Terminals	Power circuit lugs-ring terminals 1 240 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 \varnothing 6 mm Control circuit: 11 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2
Mounting Support	Screw

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	-5...40 °C for normal operating
Temperature Around the Device	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	206 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

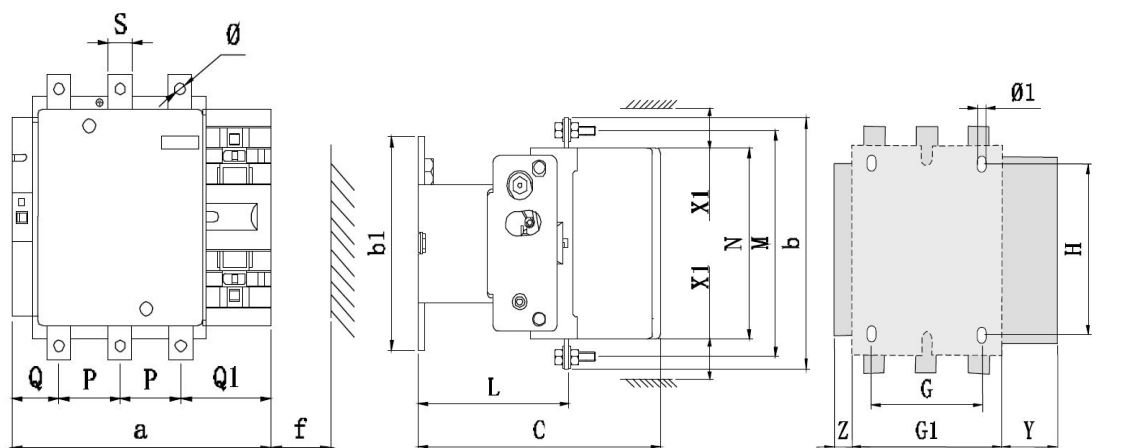
Contractual Warranty

Warranty	18 months
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Dimensions

UEC1-330F (3P, DC coil)

AC contactor:



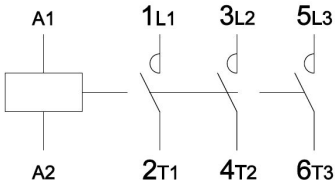
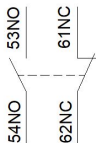
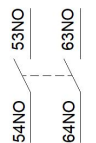
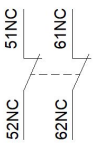
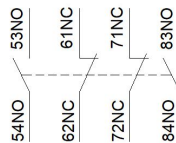
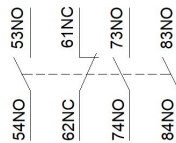
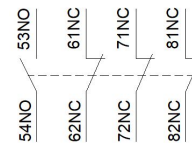
UEC1-330F	
a	213
P	48
Q	43
Q1	74
S	25
Φ	M10
f	147
b	206
b1	145
M	181
N	158
C	219
L	145
G	96
H	120 ~ 106
Φ1	6.5
G1	154.5
Z	20.5
Y	38
X1	10 ($U_e \leq 500V$) 、 15 ($U_e > 500V$)

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)	
