

Specifications



Contactor, UEC1-630F, 3P (3NO), AC Coil

Main

Product Series	UEC1
Product or Component Type	Contactor
Device Short Name	UEC1-630F
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	630 A (at ≤ 40 °C) at ≤ 400 V AC AC-3 for power circuit 800 A (at ≤ 40 °C) at ≤ 690 V AC AC-1 for power circuit
[Us] Control Circuit Voltage (AC 50/60Hz)	Voltage (V): 110 220 -230 380 -400 Code: F7 M7 Q7

Complementary

Motor Power kW	200 kW at 220/240 V AC 50/60 Hz (AC-3) 335 kW at 380/400 V AC 50/60 Hz (AC-3) 375 kW at 415 V AC 50/60 Hz (AC-3) 400 kW at 440 V AC 50/60 Hz (AC-3) 400 kW at 500 V AC 50/60 Hz (AC-3) 450 kW at 660/690 V AC 50/60 Hz (AC-3)
Pole Contact Composition	3 NO
[Ith] Conventional Free Air Thermal Current	800 A (at ≤ 40 °C) for power circuit
[Icw] Rated Short-Time Withstand Current	5050 A ≤ 40 °C - 10 s for power circuit 4400 A ≤ 40 °C - 30 s for power circuit 3400 A ≤ 40 °C - 1 min for power circuit 2200 A ≤ 40 °C - 3 min for power circuit

	1200 A ≤ 40 °C - 10 min for power circuit
Associated Fuse Rating	800 A gG at ≤ 400 V coordination type 2 for power circuit
Average Impedance	0.12 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	0.2 M cycles 630 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 Us (-5...40 °C): operational AC 50/60 Hz 0.2...0.75 Us (-5...40 °C): drop-out AC 50/60 Hz
Inrush Power in VA	1500...1730 VA 50/60 Hz (at 25 °C)
Hold-in Power Consumption in VA	20...25 VA 50/60 Hz (at 25 °C)
Operating Time	40...80 ms closing, 100...200 ms opening
Maximum Operating Rate	Electrical: 300 cycs/h Mechanical: 600 cycs/h
Connections - Terminals	Power circuit bar 2 60 x 5 mm Power circuit bolted connection M12 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: 513 lb.in (58 N·m)- on bolt locking terminals - with external hexagonal wrench 18 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	304 mm
Width	309 mm
Depth	255 mm
Net Weight	17.40 kg

Packing Units

Unit Type of Package 1	/
Number of Units in Package 1	/
Package 1 Height	/
Package 1 Width	/
Package 1 Length	/
Package 1 Weight	/
Unit type of Package 2	1 carton
Number of Units in Package 2	1 pcs
Package 2 Height	34.0 cm
Package 2 Width	34.0 cm
Package 2 Length	45.0 cm
Package 2 Weight	18.80 kg

Offer Sustainability

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

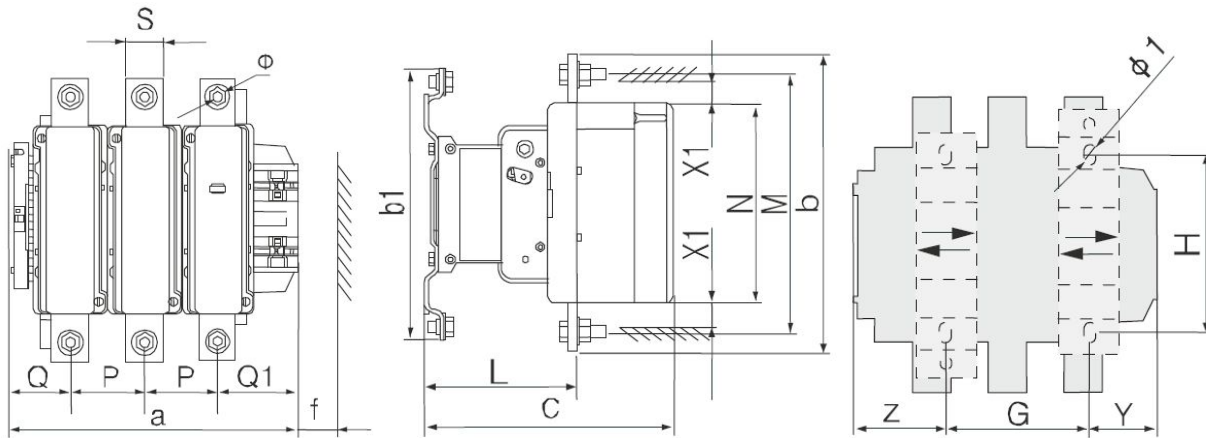
Contractual Warranty

Warranty	18 months
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Dimensions

UEC1-630F (3P, AC coil)

AC contactor:



UEC1-630F	
a	309
P	80
Q	60
Q1	89
S	40
Φ	M12
f	201
b	304
b1	280
M	264
N	202
C	255
L	155
G	180(100~195)
H	180
Φ1	10.5
Z	60.6
Y	68.5
X1	20 ($U_e \leq 500V$) 、 30 ($U_e > 500V$)

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)	