

Product datasheet



Specifications



Contactor, UEC1-150C, 3P (3NO), AC Coil

Main

Product Series	UEC1
Product or Component Type	Contactor
Device Short Name	UEC1-150C
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]	150 A (at ≤ 60 °C) at ≤ 400 V AC AC-3 for power circuit 185 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	40 kW at 220/230 V AC 50/60 Hz (AC-3) 75 kW at 380/400 V AC 50/60 Hz (AC-3) 100 kW at 660/690 V AC 50/60 Hz (AC-3)
Pole Contact Composition	3 NO
Conventional Free Air Thermal Current [Ith]	200 A (at ≤ 60 °C) for power circuit
Associated Fuse Rating	200 A gG at ≤ 690 V coordination type 2 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	0.4 M cycles 150 A AC-3 at $U_e \leq 400$ 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...40 °C): operational AC 50 Hz 0.85...1.1 Us (-40...40 °C): operational AC 60 Hz 0.2...0.75 Us (-40...60 °C): drop-out AC 50/60 Hz
Inrush Power in VA	300 VA 50/60 Hz (at 25 °C)
Hold-in Power Consumption in VA	35 VA 50/60 Hz (at 25 °C)
Operating Time	Power circuit: 12...26 ms closing, 4...19 ms opening
Maximum Operating Rate	Electrical: 300 cycs/h Mechanical: 1200 cycs/h
Connections - Terminals	Power circuit: bolt clamp terminals 1 10...120 mm ² - cable stiffness: flexible without cable end Power circuit: bolt clamp terminals 2 10...120 mm ² + 10...50 mm ² - cable stiffness: flexible without cable end Power circuit: bolt clamp terminals 1 10...120 mm ² - cable stiffness: flexible with cable end Power circuit: bolt clamp terminals 2 10...120 mm ² + 10...50 mm ² - cable stiffness: flexible with cable end Power circuit: bolt clamp terminals 1 10...120 mm ² - cable stiffness: solid without cable end Power circuit: bolt clamp terminals 2 10...120 mm ² + 10...50 mm ² - 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: 106 lb.in (12 N·m) - on bolt clamp terminals - with internal hexagon socket wrench 5 mm 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	Without built-in auxiliary contacts

Mounting Support

Screw

Two 35mm DIN Rail

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	IP20 (Products with wiring terminal modules , T type)
Permissible Ambient Air Temperature Around the Device	-40...60 °C for normal operating 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	180 mm; 158 mm (Products with wiring terminal modules , T type)
Width	120 mm
Depth	137 mm; 141 mm (Products with wiring terminal modules , T type)
Net Weight	2.10 kg (Standard Products) ; 2.50 kg (Products with wiring terminal modules)

Packing Units

Unit Type of Package 1	1 box
Number of Units in Package 1	1 pcs
Package 1 Height	18.9 cm
Package 1 Width	16.4 cm
Package 1 Length	20.7 cm
Package 1 Weight	2.35 kg
Unit type of Package 2	1 carton
Number of Units in Package 2	4 pcs
Package 2 Height	23.1 cm
Package 2 Width	37.4 cm
Package 2 Length	46 cm
Package 2 Weight	11.0 kg

Offer Sustainability

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

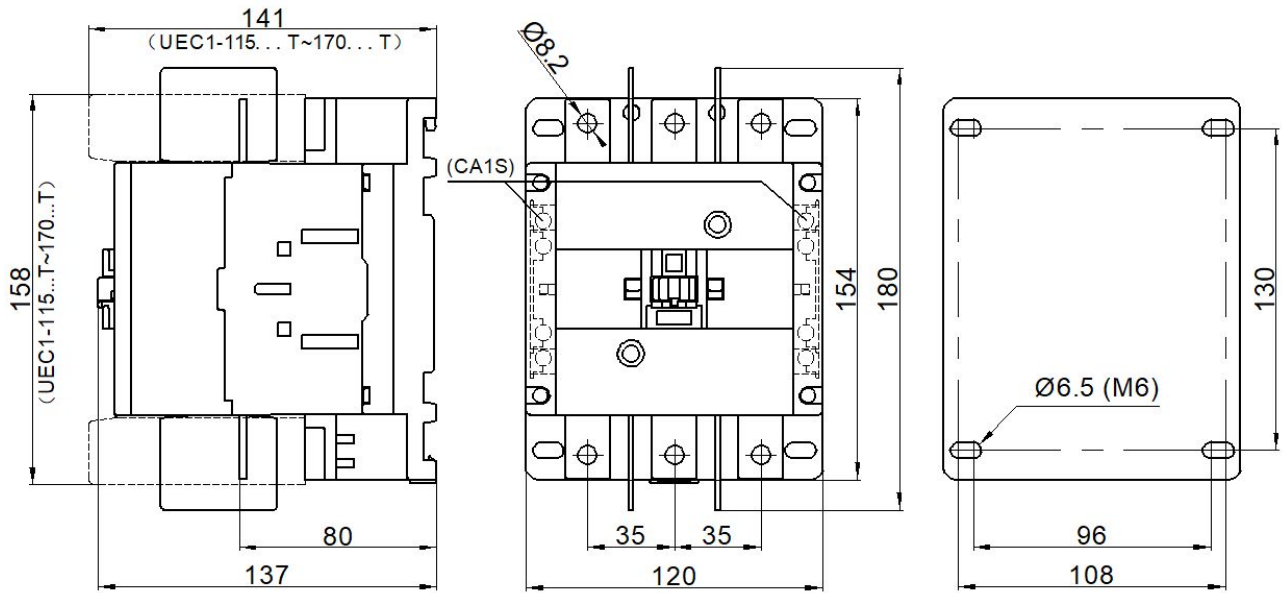
Contractual Warranty

Warranty	18 months
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Dimensions

UEC1-115...170 (3P, AC Coil)

AC Contactor:



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

Wiring Diagram

