Product datasheet

Specifications



Contactor, HFUC5-170，3P (3NO), AC Coil

Main

Product Series	HFUC5
Product or Component Type	Contactor
Device short name	HFUC5-170
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	170 A (at ≤60 °C) at ≤ 400 V AC AC-3 for power circuit 200 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	55 kW at 220/230 V AC 50/60 Hz (AC-3) 90 kW at 380/400 V AC 50/60 Hz (AC-3) 110 kW at 660/690 V AC 50/60 Hz (AC-3)
Pole contact composition	3 NO
[Ith] Conventional free air thermal current	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	0.3 M cycles 150 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...+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 mm² - cable stiffness: flexible without cable end Power circuit: bolt clamp terminals 2 10...120 mm² +10...50 mm² - cable stiffness: flexible without cable end Power circuit: bolt clamp terminals 1 10...120 mm² - cable stiffness: flexible with cable end Power circuit: bolt clamp terminals 2 10...120 mm² +10...50 mm² - cable stiffness: flexible with cable end Power circuit: bolt clamp terminals 1 10...120 mm² - cable stiffness: solid without cable end Power circuit: bolt clamp terminals 2 10...120 mm² +10...50 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...4 mm² (AWG 18...12) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm² (AWG 18...12) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm² (AWG 18...12) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm² (AWG 18...14) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² (AWG 18...12) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm² (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	IP00 (Standard Products) 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

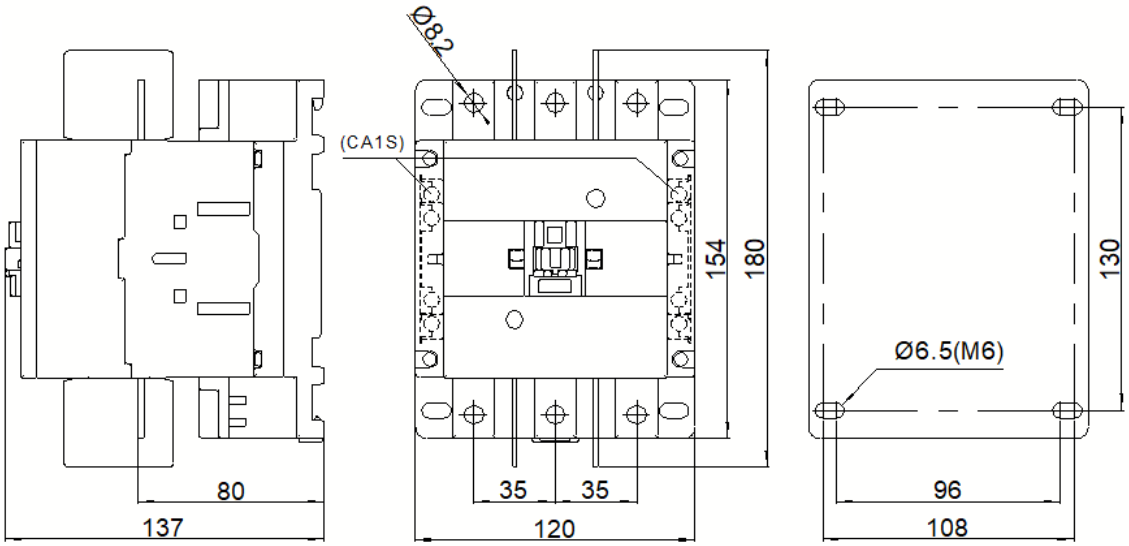
Contractual warranty

Warranty	18 months

Dimensions

HFUC5-115~170 (3P, AC coil, Standard Products)

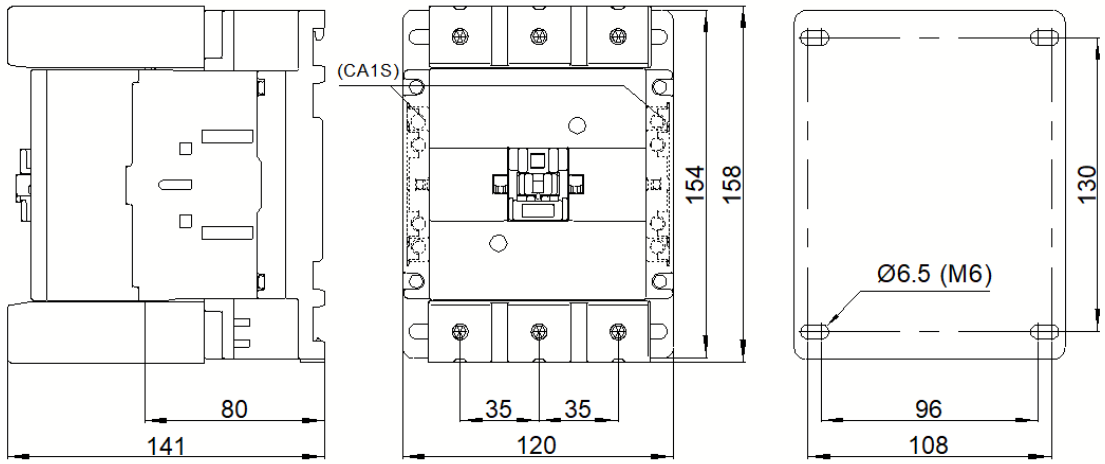
AC contactor:



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

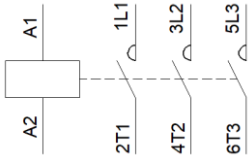
HFUC5-115~170 (3P, AC coil, Products with wiring terminal modules)

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

AC contactor
3P


Side mounting auxiliary contact block (instantaneous auxiliary contact)		
CA1S11 (1NO1NC)	CA1S20 (2NO)	CA1S02 (2NC)
