

Product datasheet



Specifications



Contact Relay, HFUCAD50, 5NO Low Consumption DC Coil

Main

Product Series	HFUCAD								
Product or Component Type	Contactor Relay								
Device Short Name	HFUCAD50								
Application	Control circuit								
Pole Contact Composition	5NO								
[Us] Control Circuit Voltage (DC supply)	Voltage (V):	5	12	20	24	48	110	220	250
	Code:	AL	JL	ZL	BL	EL	FL	ML	UL

Complementary

Utilization Category	AC-15, DC-13
[Ue] Rated Operational Voltage	≤ 690 V
Mechanical Durability	10 M cycles
Maximum Operating Rate	Electrical: 3600 cycles/h(AC-15) , 1200 cycles/h(DC-13) Mechanical: 3600 cycles/h
Operating Time	65.5...100.5 ms closing, 57...77 ms opening
Control Circuit Voltage Limits	0.8...1.25 Us (-40...60 °C): operational DC 0.1...0.3 Us (-40...60 °C): drop-out DC
Suppressor module	Built-in suppressor module
Average Hold-in Power Consumption in W	2.7 W (at 25 °C)

Average Inrush Power in W	2.7 W (at 25 °C)
[Ith] Conventional Free Air Thermal Current	10 A (at ≤60 °C)
[Icw] Rated Short-time Withstand Current	140 A ≤40 °C - 100ms 120 A ≤40 °C - 500ms 100 A ≤40 °C - 1s
Associated Fuse Rating	10 A gG conforming to IEC 60947-5-1
[Ui] Rated Insulation Voltage	690 V
Insulation Resistance	> 10 MΩ
[Uimp] Rated Impulse Withstand Voltage	6 kV
Minimum Switching Voltage	17 V
Minimum Switching Current	5 mA
Non-overlap time	1.5 ms
Connections - Terminals	screw clamp terminals 1 1...4 mm ² (AWG 18...12)- cable stiffness: flexible without cable end screw clamp terminals 2 1...4 mm ² (AWG 18...12)- cable stiffness: flexible without cable end screw clamp terminals 1 1...4 mm ² (AWG 18...12) - cable stiffness: flexible with cable end screw clamp terminals 2 1...2.5 mm ² (AWG 18...14)- cable stiffness: flexible with cable end screw clamp terminals 1 1...4 mm ² (AWG 18...12) - cable stiffness: solid without cable end screw clamp terminals 2 1...4 mm ² (AWG 18...12) - cable stiffness: solid without cable end M3.5, Terminal width ≤8.1mm (0.318 in)
Tightening Torque	10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver flat Ø 6 mm 10.7 lb.in (1.2 N·m) - on screw clamp terminals - with screwdriver Philips No 2
Mounting Support	Screw 35mm DIN Rail

Environment

Standards	GB/T 14048.5, IEC/EN 60947-5-1, BS EN 60947-5-1
Product Certifications	CCC, CE, TUV, UKCA
IP Degree of Protection	IP20 front face conforming to IEC 60529
Pollution Degree	3
Permissible Ambient Air Temperature Around the Device	-40...60 °C for normal operating 60...70 °C with derating (for operation in the range of Us...1.1Us) Storage: -60...80 °C
Operating Altitude	0...2000 m without derating
Height	77 mm
Width	45 mm
Depth	95 mm

Net Weight 0.49 kg

Packing Units

Unit Type of Package 1 1 box

Number of Units in Package 1 1 pc

Package 1 Height 8.2 cm

Package 1 Width 5.0 cm

Package 1 Length 10.2 cm

Package 1 Weight 0.512 kg

Unit type of Package 2 1 carton

Number of Units in Package 2 25 pcs

Package 2 Height 14.5 cm

Package 2 Width 29.5 cm

Package 2 Length 45.5 cm

Package 2 Weight 12.8 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

HFUCAD Contactor relay

Low Consumption DC Coil

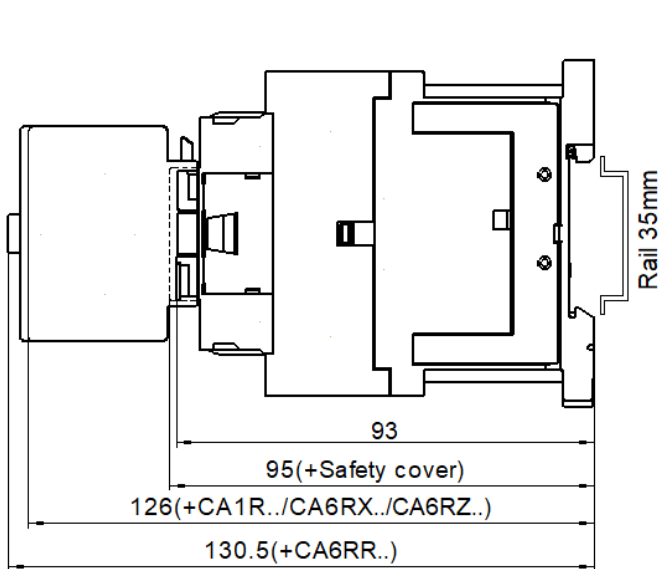


Figure 2a Outline diagram

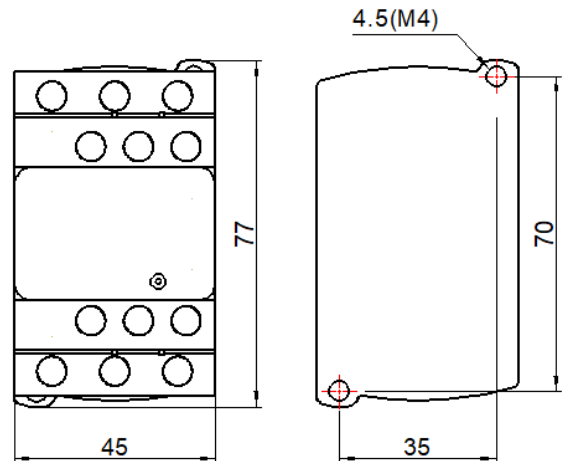


Figure 2b Drill drawing

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

Wiring diagram

