

FEATURES

- Outline dimension (28.8mm×12.6mm×25.6mm)
- 2 Form A (DPST) or 2 Form C (DPDT)contact arrangement
- Designed to meet cULus,TUV,CQC requirements
- Contact Gap: H ver.: ≥1.5mm; H1 ver.: ≥2.0mm
- RoHS compliance
- REACH SvHC compliance
- Halogen-Free type available
- Glow wire type available

APPLICATION

Appliances,Industrial Control,Solar inverter



Coil voltage	3-48VDC
Coil power	H: 800mW
	H1:1400mW

COIL DATA @23℃

CHI05-H				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC)	Release Voltage (VDC)
3	267	11.25	2.25	0.15
5	160	31.3	3.75	0.25
6	133	45.0	4.50	0.30
9	89	101.3	6.75	0.45
12	67	180.0	9.00	0.60
18	44	405.0	13.50	0.90
24	58.3	411.4	18.00	1.20
48	17	2880.0	36.00	2.40

CHI05-H1				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC)	Release Voltage (VDC)
3	466.7	6.4	2.25	0.15
5	280.0	17.9	3.75	0.25
6	233.3	25.7	4.50	0.30
9	155.6	57.9	6.75	0.45
12	116.7	102.9	9.0	0.6
18	77.8	231.4	13.5	0.9
24	58.3	720.0	18.00	1.20
48	29.2	1645.7	36.0	2.4

Note:

- 1) The data shown above are initial values.
- 2) The coil holding voltage is that voltage of relay coil after being applied rated voltage for 100ms.
- 3) The relay does not allow for a long time to maintain the upper limit of the holding voltage. It is suggested that when the relay coil applied to the rated voltage 100ms, then decreases to the lower limit value of the voltage specification, prevent overheating of relay.



c S Us File NO. E341422

File NO. R50512829

File NO. CQC21002306274

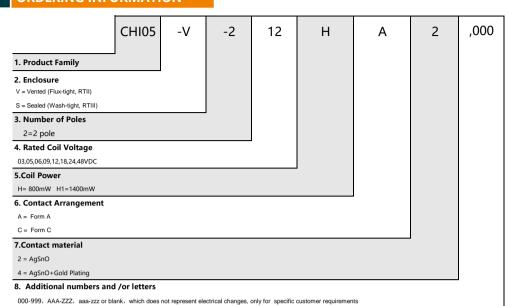
CONTACT DATA

Contact arrangement	2 Form A (DPST) / 2 Form C(DPDT)		
Contact material	Ag Alloy		
Initial contact resistance	100mΩ max.(at 6VDC,1A)		
Max. switching voltage	277VAC/30VDC		
Max. switching current	10A(NO) / 10A(NC)		
May switching nower	NO: 2770VA/360W		
Max. switching power	NC: 2770VA		
	NO:	10A 250VAC	
		10A 30VDC	
Contact rating		TV-3 125VAC	
		1/2HP 250VAC	
	NC:	10A 250VAC	
Mechanical endurance	300,000 ops Min.(no load)		
Electrical endurance	NO: 10A 250VAC,30,000 ops		
(Resistive Load)	NC: 10A 250VAC,10,000 ops		
Minimum load (reference value)	100mA @5VDC		

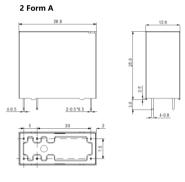
CHARACTERISTICS

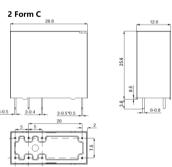
Operate voltage		75% of nominal voltage or less	
Release voltage		5% of nominal voltage or more	
Operate time (At nominal voltage)		15ms max.	
Release time(At nominal voltage)		10ms max.	
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Dielectric	Between coil and contacts	5,000 VAC, 50/60 Hz for 1 min	
	Between open contacts	H(1.5mm): 2,000 VAC, 50/60 Hz for 1 min	
strength	between open contacts	H1(2.0mm): 2,500 VAC, 50/60 Hz for 1 min	
	Between contacts sets	2,500 VAC, 50/60 Hz for 1 min	
Surge voltage between coil and contacts		10,000V(1.2/50us)	
Vibration resistance	Destruction	10 to 55 Hz.,1.5mm double amplitude	
	Malfunction	10 to 55 Hz.,1.5mm double amplitude	
Shock resistance	Destruction	1,000m/S ² (100G approximately)	
	Malfunction	1,00m/S ² (10G approximately)	
Ambient temperature		-40~+85°C (without icing or condensation)	
Ambient humidity		20%~85% RH	
Termination		PCB terminals	
Enclosure (94V-0 Flammability Ratings)		V: Vented(Flux-tight, RTII)	
		S: Sealed(Wash-tight, RTIII)	
Unit Weight		Approx. 17g	

ORDERING INFORMATION



OUTLINE DIMENSION





WIRING DIAGRAMS (BOTTOM VIEWS)

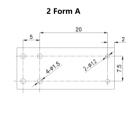


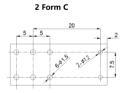
2 Form A



2 Form C

PC BOARD LAYOUTS (BOTTOM VIEWS)





1)The reference tolerance in outline dimension:

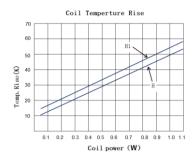
outline dimension \leq 1mm, reference tolerance is \pm 0.2mm;

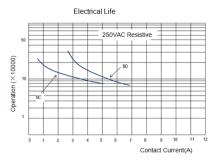
outline dimension >1mm and ≤5mm, reference tolerance is ±0.3mm;

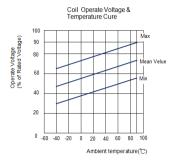
outline dimension >5mm, reference tolerance is ±0.5mm.

2)The reference tolerance for PC Board layout is ±0.1mm.

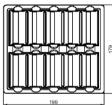
Reference Date







Packing



50 pcs inside a box

The specification is for reference only, if you need more detail information, please contact Churod. We could not evaluate all the performance and all parameters for every possible application. And the user should be in a right position to choose the suitable product for their own application. If there is any new need, please contact Churod for the technical service.

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