CHI04 SERIES 10A300VDC MINIATURE POWER RELAY



FEATURES

- 10A 300VDC high-voltage switching capability
- Outline dimension(29.3×12.7×19.0)
- Designed to meet UL/cUL,TUV,CQC requirements
- 5,000VAC dielectric strength between coil and contact
- F class Insulation System
- RoHS compliance
- REACH SvHC compliance
- Halogen-Free type avaliable







CONTACT DATA

Contact arrangement	1 Form A(SPST-NO)			
Contact material	Ag Alloy			
Initial contact resistance	100mΩ max.@6VDC,1A			
Max. switching voltage	420VDC,300VAC			
Max. switching current	16A			
Max. switching power	3,000W/4800VA			
	5A 420VDC, Resistive			
Contact rating	10A 300VDC, Resistive			
Contact rating	16A 180VDC, Resistive			
	16A 300VAC, Resistive			
Mechanical endurance	3,000,000 ops Min.(no load)			
Electrical endurance	30,000 ops Min(rated load 1s on /9s off)			
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)		5ms max.			
Insulation resistance		1,000 MΩ min. (at 500 VDC)			
Dielectric	Between coil and contacts	5,000 VAC, 50/60 Hz for 1 min			
strength	Between open contacts	1,000 VAC, 50/60 Hz for 1 min			
Surge voltage between coil and contacts		10,000V(1.2/50us)			
Vibration	Destruction	10 to 55 Hz.,1.5mm double amplitude			
resistance	Malfunction	10 to 55 Hz.,1.5mm double amplitude			
Shock	Destruction	1,000m/S ² (100G approximately)			
resistance	Malfunction	100m/S ² (10G approximately)			
Ambient temperature		-40°C~+105°C (without icing or condensation)			
Ambient humidity		20%~85% RH			
Terminal		PCB terminal			
Enclosure (94V-0 Flammability Ratings)		V: Vented(Flux-tight),plastic cover.(RT II)			
		S: Sealed, plastic cover. (RT III)			
Weight		Approx. 15g			

	COIL	DATA@2	23°C			
			CHI03			
	Nominal Nominal coil voltage Current (VDC) (mA)		Coil Resistance (Ω±10%)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)	
	5	80.0	62.5	3.75	0.25 0.3	
	6	66.7	90	4.5		
	9	44.4	202.5	6.75	0.45	
	12 33.3		360	9	0.6	
	18	22.2	810	13.5	0.9	
	24 16.7		1440	18	1.2	
48 8.3		5760	36	2.4		

APPLICATION

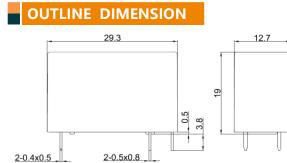
AC/DC Power Source, Industry Control...etc

COIL PARAMETER

Coil voltage	5-48VDC
Coil power	400mW

ORDERING INFORMATION

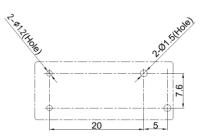
CHI04	-V	-1	12	D	А	2	,000
1. Product Family							
2.Enclosure							
V = Vented(Flux-tight),plastic cover.(RT II)							
3.Number of Poles							
1 = 1 pole							
4.Rated Coil Voltage							
05,06,09,12,18,24,48VDC							
5.Coil Input							
D = Standard(400mW)							
6.Contact Arrangement							
A = Form A (SPST-NO)							
7.Contact material						<u>.</u>	
$2 = AgSnO_2$							
8.Additional numbers and /or letters							
000-999, AAA-ZZZ, aaa-zzz or blank, which does not represent electrical changes, only for specific customer requirements							

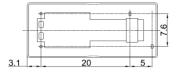


WIRING DIAGRAMS (BOTTOM VIEWS)



PC BOARD LAYOUTS (BOTTOM VIEWS)





Remark:

1) The reference tolerance in outline dimension:

outline dimension ≤1mm, reference tolerance is ±0.2mm;

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

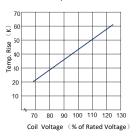
outline dimension > 5mm, reference tolerance is ±0.5mm.

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

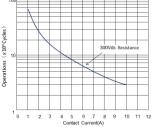
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REFERENCE DATA

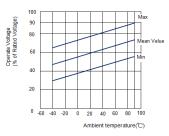
Coil Temperture Rise





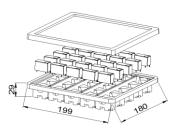


Coil Operate Voltage & Temperature Cure



PACKAGING FIGURE





25 pcs inside a box250 pcs inside a carton

Disclaimer:

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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