CHI03 SERIES 17A MINIATURE POWER RELAY



FEATURES

- Outline dimension(29.3×12.7×15.3)
- 1 Form A(SPST-NO) and 1 Form C(SPDT) contact arrangement
- 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

APPLICATION

Appliances, power supper, Industrial Control...etc



Coil voltage	5-48VDC
Coil power	400mW

COIL DATA@23°C

CHI03				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	80	62.5	3.75	0.25
6	66.7	90	4.5	0.3
9	44.4	202.5	6.75	0.45
12	33.3	360	9	0.6
18	22.2	810	13.5	0.9
22	18.2	1210	16.5	1.1
24	16.7	1440	18	1.2
36	11.1	3240	27	1.8
48	8.3	5760	36	2.4



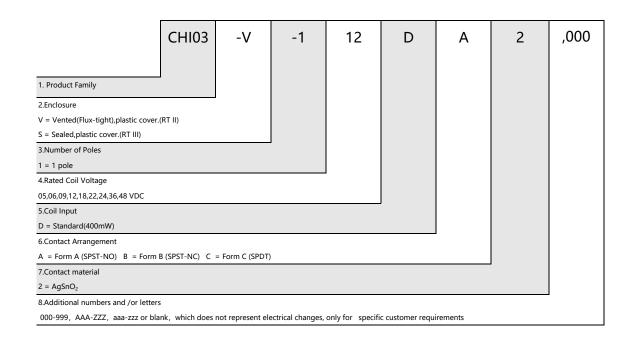
CONTACT DATA

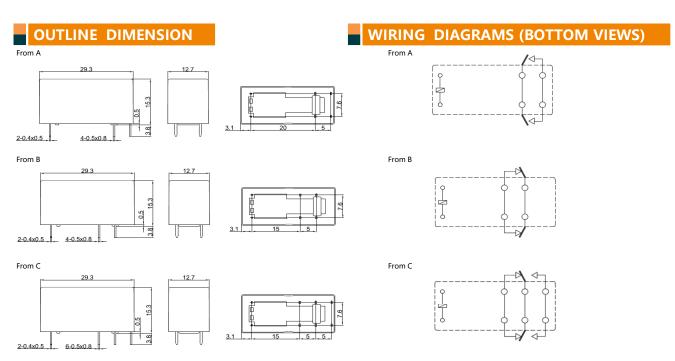
Contact arrangement		1 Form A(SPST-NO), 1 Form C(SPDT), 1 Form B(SPST-NC)
Contact material		Ag Alloy
Initial contact resistance		100mΩ max.@6VDC,1A
Max. switching voltage		277VAC/30VDC
Max. switching current		20A
Max. switching power		5540VA / 600W
	NO	17A @277VAC/30VDC
		1HP @120/240/480VAC
		10FLA/60LRA @250VAC
		5A pilot duty @120VAC and 277VAC
		16A general purpose @120VAC and 277VAC
Contact rating		20A @277VAC resistive, 30K cycles
Contact rating		TV-8 @120VAC 25K cycles
	NC	1HP @120/240/480VAC
		10FLA/60LRA @250VAC
		5A pilot duty @120VAC and 277VAC , 30K cycles
		17A @277VAC/30VDC , 30K cycles
		16A general purpose @120VAC and 277VAC , 30K cycles
Mechanical endurance		10,000,000 ops Min.(no load)
Electrical endurance		100,000 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)		8ms max.	
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Insulation system		155 (F)	
Dielectric strength	Between coil and contacts	5,000 VAC, 50/60 Hz for 1 min	
	Between open contacts	1,000 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	100m/S²(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. 14g	

ORDERING INFORMATION



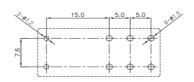


PC BOARD LAYOUTS (BOTTOM VIEWS)

Remark:

1) The reference tolerance in outline dimension: outline dimension ≤ 1 mm, reference tolerance is ± 0.2 mm; outline dimension > 1mm and ≤ 5 mm, reference tolerance is ± 0.3 mm; outline dimension > 5mm, reference tolerance is ± 0.5 mm.

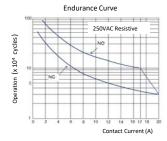
2) The reference tolerance for PC Board layout is $\pm 0.1 \text{mm}$.

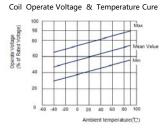


REFERENCE DATA

Coil Temperture Rise

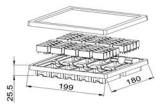
70
90
90
90
10
10
70
80
90
100
110
120
130
Coil Voltage (% of Rated Voltage)





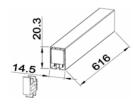
PACKAGING FIGURE

1.Box



50 pcs inside a box500 pcs inside a carton

2.Tube



20 pcs inside a tube1000 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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