

FEATURES

- Outline dimension (20mm×15.5mm×20.2mm)
- 1 Form A (SPST) or 1 Form C (SPDT) contact arrangement
- Designed to meet cULus, TUV, CQC requirements
- Flux-tight and Wash-tight version available
- RoHS compliance
- REACH SvHC compliance
- Halogen-Free type available
- Glow wire type available



File NO. E341422



File NO. R50254542



File NO. CQC21002285907

APPLICATION

Appliances, Power Supplier, Industrial Control

COIL PARAMETER

Coil voltage	5-48VDC	
Coil power	Standard ver.	360mW

COIL DATA @23℃

CHW Standard				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Operate Voltage (VDC)	Release Voltage (VDC)
5	72	69	3.75	0.25
6	60	100	4.5	0.3
9	40	225	6.75	0.45
12	30	400	9.0	0.6
18	20	900	13.5	0.9
24	15	1600	18.0	1.2
48	7.5	6400	36.0	2.4

CONTACT DATA

Contact arrangement	1 Form A (SPST) / 1 Form C (SPDT)	
Contact material	Ag Alloy	
Initial contact resistance	100m Ω max.(at 6VDC,1A)	
Max. switching voltage	277VAC	
Max. switching current	20A(NO) / 10A(NC)	
Max. switching power	NO : 5540VA	
	NC : 2770VA	
Contact rating	NO :	20A @250VAC
		17A @250VAC
		TV-8 @ 250VAC
		1HP @ 250VAC
	NC:	10A @ 250VAC
Mechanical endurance	10,000,000 ops Min.(no load)	
Electrical endurance (Resistive Load)	NO: 20A 250VAC, 30,000 ops	
	NO: 17A 250VAC, 100,000 ops	
	NC: 10A 250VAC, 50,000 ops	
Minimum load (reference value)	100mA @5VDC	

Note:

- The data shown above are initial values.
- For the Sealed type, the venting-hole should be opened in electronical endurance test.

CHARACTERISTICS

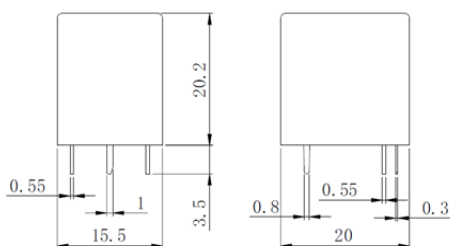
Operate voltage	75% of nominal voltage or less	
Release voltage	5% of nominal voltage or more	
Operate time (At nominal voltage)	10ms max.	
Release time (At nominal voltage)	5ms max.	
Insulation resistance	1,000 M Ω min. (at 500 VDC)	
Dielectric strength	Between coil and contacts	2,000 VAC, 50/60 Hz 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	1,00m/S ² (10G approximately)
Ambient temperature	-40~+85℃ (without icing or condensation)	
Ambient humidity	5%~85% RH	
Termination	PCB terminals	
Enclosure (94V-0 Flammability Ratings)	V: Vented(Flux-tight, RTII)	
	S: Sealed(Wash-tight, RTIII)	
Unit Weight	Approx. 11g	



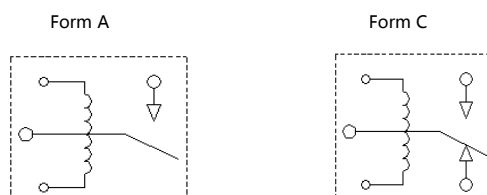
ORDERING INFORMATION

	CHW	-V	-1	12	D	A	2	H	,000
1. Product Family									
2. Enclosure									
V = Vented (Flux-tight, RTII)									
S = Sealed (Wash-tight, RTIII)									
3. Number of Poles									
1=1 pole									
4. Rated Coil Voltage									
05,06,09,12,18,24,48VDC									
5.Coil Power									
D = Standard (360mW)									
6. Contact Arrangement									
A = Form A(SPST)									
C = Form C(SPDT)									
7.Contact material									
2=AgSnO ₂									
8.Conact Capacity									
H = 17/20A									
9. Additional numbers and /or letters									
000-999, AAA-ZZZ, aaa-zzz or blank, which does not represent electrical changes, only for specific customer requirements,ex: (20A)=20A									

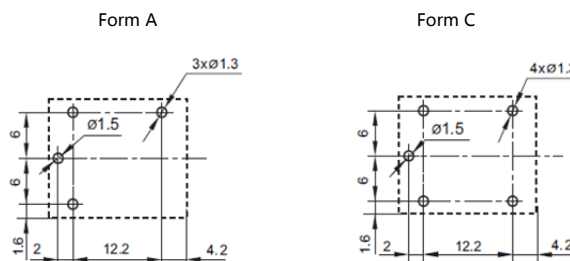
OUTLINE DIMENSION



WIRING DIAGRAMS (BOTTOM VIEWS)



PC BOARD LAYOUTS (BOTTOM VIEWS)



Remark:

- The reference tolerance in outline dimension:
outline dimension $\leq 1\text{mm}$, reference tolerance is $\pm 0.2\text{mm}$;
outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, reference tolerance is $\pm 0.3\text{mm}$;
outline dimension $> 5\text{mm}$, reference tolerance is $\pm 0.5\text{mm}$.
- The reference tolerance for PC Board layout is $\pm 0.1\text{mm}$.

