

FEATURES

- CHS01: Outline dimension (32.1mm×27.05mm×20.2mm)
- CHS02: Outline dimension (32.5mm×27.3mm×19.9mm)
- 1 Form A or 1 Form B and 1 Form C contact arrangement
- Designed to meet cULus,TUV,CQC requirements
- Flux-tight and Wash-tight version available
- RoHS REACH SvHC compliance
- Halogen-Free type available
- Glow wire type available



File NO. E341422



File NO. R50271657



File NO. CQC13002102346

APPLICATION

Appliances, Power Supplier, Industrial Control

COIL PARAMETER

Coil voltage	5-110VDC	
Coil power	Standard ver.	900mW

COIL DATA @23°C

CHS-L				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	180	27.8	3.75	0.25
6	150	40	4.5	0.3
9	100	90	6.75	0.45
12	75	160	9	0.6
15	60	250	11.25	0.75
18	50	360	13.5	0.9
22	40.9	537.8	16.5	1.1
24	37.5	640	18	1.2
36	25	1440	27	1.8
48	18.8	2560	36	2.4
60	15	4000	45	3
110	8.2	13444	82.5	5.5

Note:

1) The data shown above are initial values.

CONTACT DATA

Contact arrangement		1 Form A (SPST) / 1 Form B (SPST) / 1 Form C(SPDT)		
Contact material		Ag Alloy		
Initial contact resistance		100mΩ max.(at 6VDC,1A)		
Max. switching voltage		277VAC/30VDC		
Max. current	Switching	40A(NO) / 30A(NC)		
	Carrying	60A(NO) / 30A(NC)		
Max. power	Switching	NO : 11,080VA / NC : 8310VA		
	Carrying	NO : 16,620VA / NC : 8310VA		
Contact rating	Form A	LA/LA2	30A @ 277VAC	
			40A @ 277VAC	
			2HP @ 250VAC	
		LA2	15A-50A-15A @ 250VAC, Make-Carry-Break	
	15A-60A-15A @ 250VAC, Make-Carry-Break			
	Form C	LC	20A(N.O)/10A(N.C) @ 277VAC	
		LC2	40A(N.O)/25A(N.C) @ 277VAC	
			40A(N.O)/30A(N.C) @ 277VAC	
Form B		30A @ 277VAC		
Mechanical endurance		1,000,000 ops Min.(no load)		
Electrical endurance (Resistive Load)		NO: 15A-60A/50A-15A @ 250VAC, Make-Carry-Break ,30,000 ops T85		
		NO: 40A 250VAC,30,000 ops T85		
		NO: 30A 250VAC,100,000 ops T85		
		NC: 30A 250VAC,10,000 ops T85		
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)	15ms max.	
Insulation resistance	1,000 M Ω min. (at 500 VDC)	
Dielectric strength	Between coil and contacts	2,500 VAC, 50/60 Hz for 1 min
	Between open contacts	1,500 VAC, 50/60 Hz for 1 min
Surge voltage between coil and contacts	6,000V(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. 26g(CHS01), Approx. 32g(CHS02)	



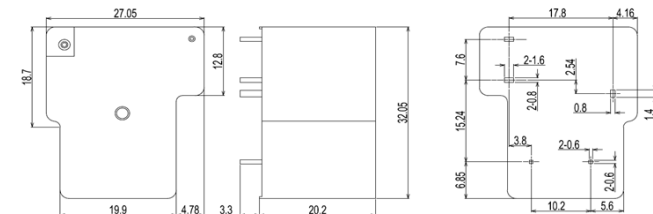
ORDERING INFORMATION

	CHS01	-V	-1	12	L	A	2	(60A)	,000
1. Product Family CHS01:PCB terminal CHS02:PCB & 250QC terminal									
2. Enclosure V = Vented (Flux-tight, RTII) S = Sealed (Wash-tight, RTIII) (only 40A and blow)									
3. Number of Poles 1=1 pole									
4. Rated Coil Voltage 05,06,09,12,18,22,24,48,60,110VDC									
5.Coil Power L = Standard (900mW)									
6. Contact Arrangement A = Form A(SPST) B = Form B(SPST) C = Form C(SPDT)									
7.Contact material Blank = AgCdO(40A and down) 2 = AgSnO2									
8. Rated Current (40A)=40A (50A)=50A (60A)=60A									
9. Additional numbers and /or letters 000-999 , AAA-ZZZ , aaa-zzz or blank , only for specific customer requirements,ex(30A)=30A,(50A)=50A,(60A)=60A ...									

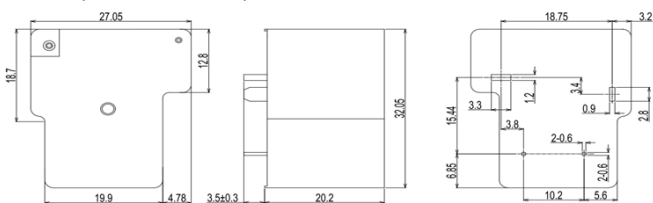
OUTLINE DIMENSION

Unit: mm

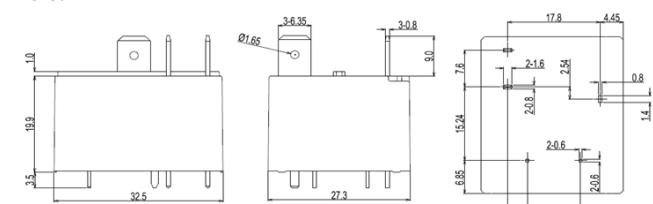
CHS01 (Rated Current ≤ 40A)



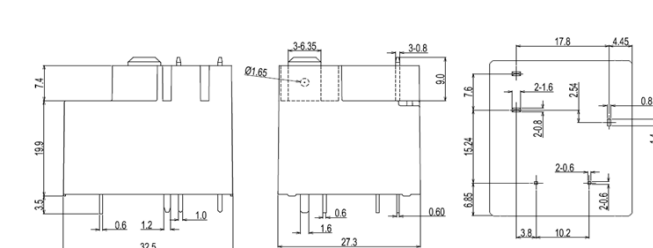
CHS01 (Rated Current > 40A)



CHS02

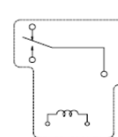


CHS02 (G Series)

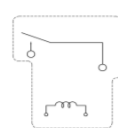


WIRING DIAGRAMS (BOTTOM VIEWS)

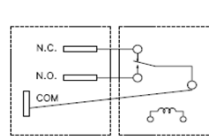
CHS01 Form C



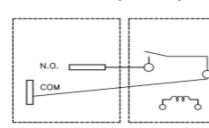
CHS01 Form A



CHS02/CHS02(G Series) Form C

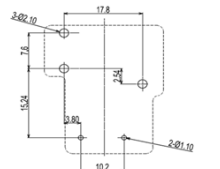


CHS02/CHS02(G Series) Form A

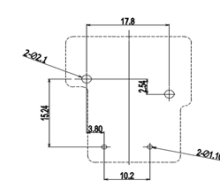


PC BOARD LAYOUTS (BOTTOM VIEWS)

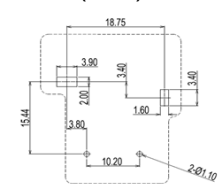
CHS01 (≤40A) Form C



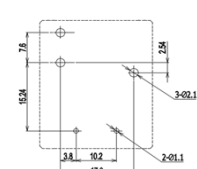
CHS01 (≤40A) Form A



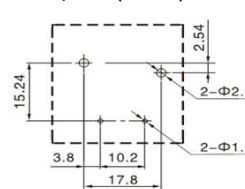
CHS01 (> 40A) Form A



CHS02/CHS02(G Series) Form C



CHS02/CHS02(G Series) Form A

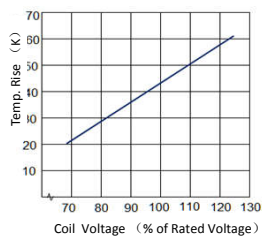


Remark:

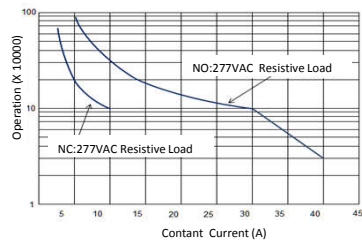
1) The reference tolerance in outline dimension:
outline dimension $\leq 1\text{mm}$, reference tolerance is $\pm 0.2\text{mm}$;
reference tolerance is $\pm 0.2\text{mm}$;
outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$,
reference tolerance is $\pm 0.3\text{mm}$;
outline dimension $> 5\text{mm}$,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

REFERENCE DATA

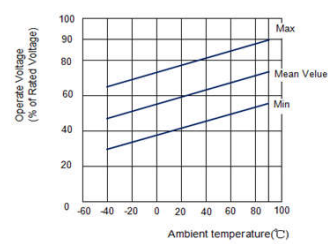
Coil Temperature Rise



Electrical Life

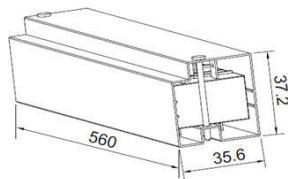
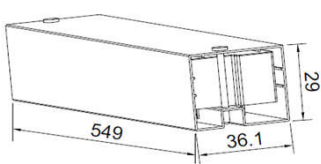


Coil Operate/Release Voltage & Temperature Cure



PACKAGING FIGURE

Tube



20 pcs inside a tube

500 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.

[Http://www.churod.com](http://www.churod.com)

2022 Rev.01 Churod Electronics Co., Ltd.



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