

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

APPLICATION

Appliances, Power Supplier, Industrial Control

COIL PARAMETER

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

COIL DATA @23°C

CHS-LA Standard				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	180	27	3.75	0.25
6	150	40	4.5	0.3
9	100	97	6.75	0.45
12	75	155	9	0.6
18	50	360	13.5	0.9
22	40.9	538	16.5	1.1
24	36	640	18	1.2
48	18.8	2560	36	2.4
110	8.2	13444	82.5	5.5

CHS-LC Standard				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	180	27	3.75	0.25
6	150	40	4.5	0.3
9	100	97	6.75	0.45
12	75	155	9	0.6
18	50	360	13.5	0.9
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

CHS-LA2 Standard				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
9	100	97	6.75	0.45
12	75	155	9	0.6
18	50	360	13.5	0.9
24	37.5	640	18	1.2
48	18.8	2560	36	2.4

Note:

1) The data shown above are initial values.



File NO. E341422



File NO. R50271657



File NO. CQC13002102346

CONTACT DATA

Contact arrangement	1 Form A (SPST) / 1 Form B (SPST) / 1 Form C (SPDT)		
Contact material	Ag Alloy		
Initial contact resistance	100m Ω 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
40A(N.O)/25A(N.C) @ 277VAC			
Form B	LC2	40A(N.O)/30A(N.C) @ 277VAC	
		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	2,000 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	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, RTIII)	
	S: Sealed(Wash-tight, RTIII)	
Unit Weight	Approx. 26g(CHS01), Approx. 32g(CHS02)	

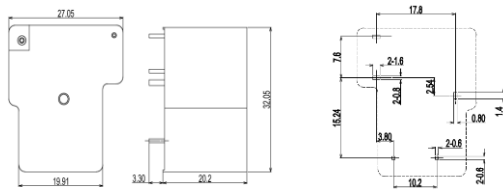
ORDERING INFORMATION

	CHS01	-V	-1	12	L	A	2	,000
1. Product Family CHS01:PCB terminal CHS02:PCB & 250QC terminal								
2. Enclosure V = Vented (Flux-tight, RTII) S = Sealed (Wash-tight, RTIII)								
3. Number of Poles 1=1 pole								
4. Rated Coil Voltage 05,06,09,12,18,22,24,48,60,110VDC								
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 = AgSnO ₂								
8. Additional numbers and /or letters 000-999 , AAA-ZZZ , aaa-zzz or blank , only for specific customer requirements,ex:(43A)=43A,(50A)=50A,(60A)=60A ...								

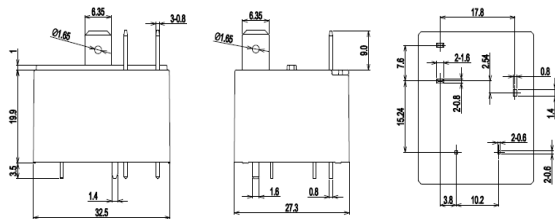
OUTLINE DIMENSION

Unit: mm

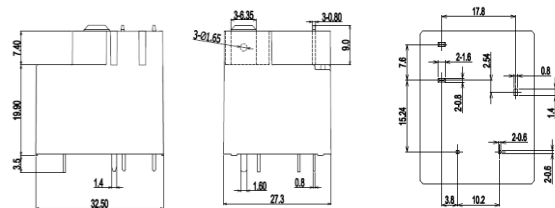
CHS01 ver.



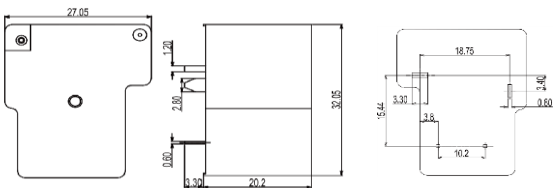
CHS02 ver.



CHS02 G ver.



CHS01-LA2 ver.

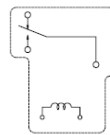


Remark:

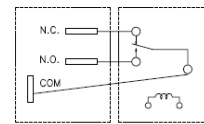
- The reference tolerance in outline dimension:
 outline dimension ≤ 1mm, reference tolerance is ±0.2mm;
 outline dimension > 1mm and ≤ 5mm, reference tolerance is ±0.3mm;
 outline dimension > 5mm, reference tolerance is ±0.5mm.
- The reference tolerance for PC Board layout is ±0.1mm.

WIRING DIAGRAMS (BOTTOM VIEWS)

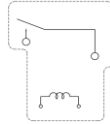
CHS01 Form C



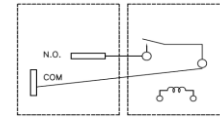
CHS02/CHS02 (G Series) Form C



CHS01 Form A

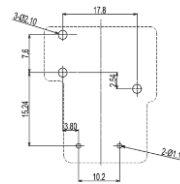


CHS02/CHS02 (G Series) Form A

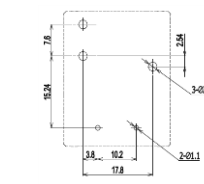


PC BOARD LAYOUTS (BOTTOM VIEWS)

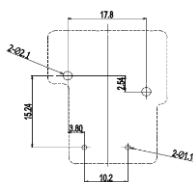
CHS01 Form C



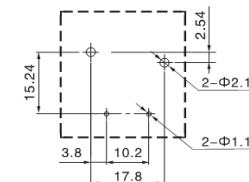
CHS02/CHS02 (G Series) Form C



CHS01-LA Form A



CHS02/CHS02 (G Series) Form A



CHS01-LA2 Form A

