

FEATURES

- Outline dimension (28.8mm×12.4mm×25.4mm)
- 1 Form A&1 Form B or 2 Form C (DPDT)contact arrangement
- Forcibly Guided contacts according to IEC61810-3
- Designed to meet cULus,TUV,CQC requirements
- Flux-tight and Wash-tight version available
- High insulation capability(1.2/50μs):10kV surge voltage between coil & contacts and 6kV between contact sets
- RoHS compliance
- Glow wire type available



File NO. E341422



File NO. R50482729



File NO. CQC20002266654

APPLICATION

Emergency shut-off, press control, machine control, safety doors, elevator and escalator control...

COIL PARAMETER

Coil voltage	5-110VDC
Coil power	700mW

COIL DATA @23°C

CHSR2 type (at 23°C)				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC)	Release Voltage (VDC)
5	140	36	3.75	0.25
6	117	51	4.5	0.3
9	77.8	116	6.75	0.45
12	58.3	206	9	0.6
15	46.7	321	11.25	0.75
18	38.9	463	13.5	0.9
21	33.3	630	15.75	1.05
24	29.2	823	18	1.2
36	19.4	1851	27	1.8
40	17.5	2286	30	2
48	14.6	3291	36	2.4
60	11.7	5143	45	3
80	8.8	9143	60	4
110	6.4	17286	82.5	5.5

Note:

- The data shown above are initial values.

CONTACT DATA

Contact arrangement	1 Form A +1 Form B/ 2 Form C		
Contact material	Ag Alloy		
Initial contact resistance	100mΩ max.(at 6VDC, 1A)		
Max. switching voltage	250VAC/30VDC		
Max. switching current	8A(NO) /6A(NC)		
Max. switching power	NO: 2000VA/240W		
	NC: 1500VA/180W		
Contact rating	1NO+NC:	NO	8A @250VAC
			6A @250VAC
	NC	6A @30VDC	
		6A @30VDC	
2CO:		6A @250VAC	
		6A @30VDC	
Mechanical endurance	10,000,000 ops Min.(no load)		
Electrical endurance (Resistive Load)	NO: 8A 250VAC,50,000 ops		
	NO: 6A 250VAC,100,000 ops		
	NC: 6A 250VAC,50,000 ops		
Minimum load (reference value)	100mA @5VDC		

CHARACTERISTICS

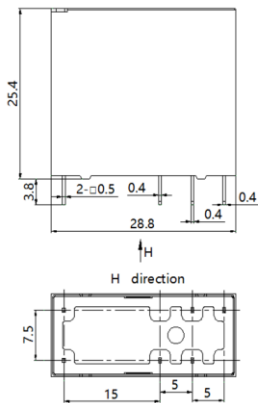
Operate voltage	75% of nominal voltage or less	
Release voltage	5% of nominal voltage or more	
Operate time (At nominal voltage)	15ms max.	
Release time(At nominal voltage)	10ms max.	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Dielectric strength	Between coil and contacts	4,000 VAC, 50/60Hz for 1 min
	Between open contacts	1,500 VAC, 50/60Hz for 1 min
	Between contacts sets	3,000 VAC, 50/60Hz for 1 min
Surge voltage between coil and contacts	10,000V(1.2/50us)	
Vibration resistance	Destruction	10Hz~ 55Hz., 1.6mm double amplitude
	Malfunction	NO: 10Hz~ 55Hz., 1.6mm double amplitude NC: 10Hz~ 55Hz., 0.4mm double amplitude
Shock resistance	Destruction	980m/S2
	Malfunction	NO: 98m/S2 NC: 49m/S2
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(g)	Approx. 18	

ORDERING INFORMATION

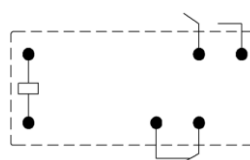
CHSR2	-V	-AB	12	D	2	F	,000
1. Product Family CHSR2							
2. Enclosure V = Vented (Flux-tight, RTII) S = Sealed (Wash-tight, RTIII)							
3. Number of Poles AB=1 Form A+ 1 Form B 2C= 2 Form C							
4. Rated Coil Voltage 05,06,09,12,15,18,21,24,36,40,48,60,80,110VDC							
5. Coil Power D = Standard (700mW)							
6. Contact material 2=AgSnO ₂ 4=AgSnO ₂ +Au plating							
7. Insulation Type F: Class F							
8. Additional numbers and /or letters 000-999, AAA-ZZZ, aaa-zzz or blank, only for specific customer requirements							

OUTLINE DIMENSION

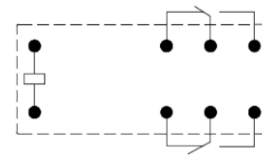
1 Form A+ 1 Form B type



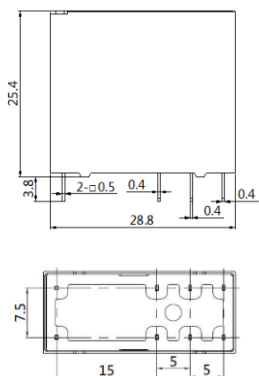
1 Form A+ 1 Form B type



2 Form C type

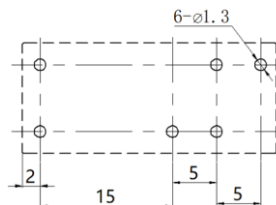


2 Form C type

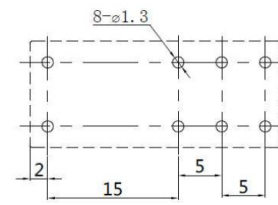


PC BOARD LAYOUTS (BOTTOM VIEWS)

1 Form A+ 1 Form B type



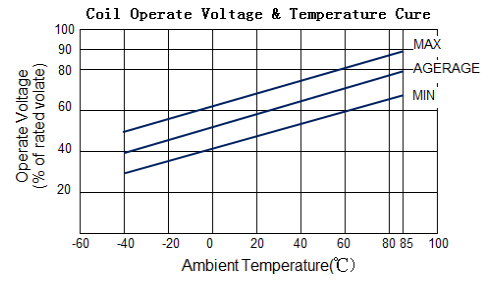
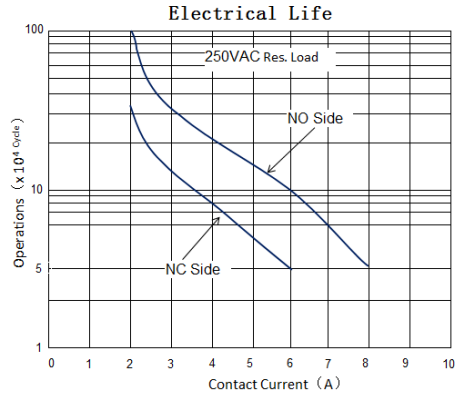
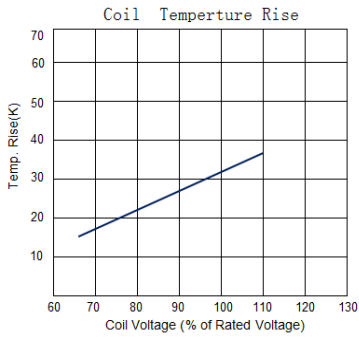
2 Form C type



Remark:

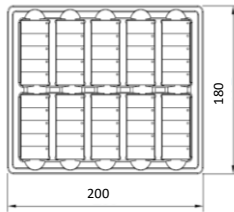
- The reference tolerance in outline dimension:
 - outline dimension ≤ 1 mm, reference tolerance is ± 0.2 mm;
 - outline dimension > 1 mm and ≤ 5 mm, reference tolerance is ± 0.3 mm;
 - outline dimension > 5 mm, reference tolerance is ± 0.5 mm.
- The reference tolerance for PC Board layout is ± 0.1 mm.

Reference Date



PACKAGING FIGURE

Box



50 pcs inside a box

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.

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