

## FEATURES

- Outline dimension (40mm×13mm×24mm)
- Multi contact arrangements: 3NO+1NC
- 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 5kV between contact sets
- RoHS compliance
- Glow wire type available

### APPLICATION

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

## COIL PARAMETER

Coil voltage	6-48VDC
Coil power	360mW

## COIL DATA @23℃

CHSR4 type ( at 23°C)					
Nominal coil voltage ( VDC )	Nominal Current ( mA )	Coil Resistance (Ω±10%)	Operate Voltage ( VDC )	Release Voltage ( VDC )	
6	60	100	≤4.5	≥0.6	
9	40	225	≤6.8	≥0.9	
12	30	400	≤9.0	≥1.2	
18	20	900	≤13.5	≥1.8	
24	15	1600	≤18.0	≥2.4	
36	10	3600	≤27.0	≥3.6	
48	7.5	6400	≤36.0	≥4.8	

### Note:

1) The data shown above are initial values.



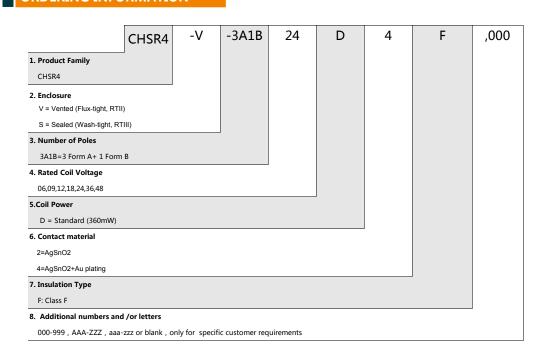
## CONTACT DATA

Contact arrangement	3NO+1NC: 3 Form A & 1 Form B			
Contact material	Ag Alloy	Ag Alloy		
Initial contact resistance	100mΩ ma	ax.(at 6VDC,1A)		
Max. switching voltage	250VAC/30	250VAC/30VDC		
Max. switching current	6A	6A		
Max. switching power	1500VA/18	1500VA/180W		
	NO	6A @250VAC		
Contact rating	INO	6A @ 30VDC		
	NC	6A @250VAC		
	INC	6A @ 30VDC		
Mechanical endurance	1,000,000 o	1,000,000 ops Min.(no load)		
Floatrical and urange (Posistiva Load)	1NO: 6A 250VAC,100,000 ops			
Electrical endurance (Resistive Load)	1NC: 6A 250VAC,50,000 ops			
Minimum load (reference value)	100mA @5	100mA @5VDC		

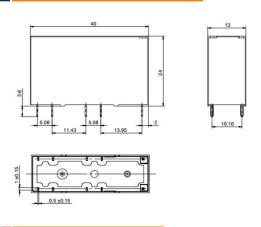
## CHARACTERISTICS

Operate voltage		75% of nominal voltage or less		
Release voltage		5% of nominal voltage or more		
Operate time (At nominal voltage)		20ms max.		
Release time(At nominal voltage)		20ms 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	2,500 VAC, 50/60Hz for 1 min(7-8/9-10) 4,000 VAC, 50/60Hz for 1 min(others)		
Surge voltage between coil and contacts		10,000V(1.2/50us)		
Vibration resistance	Destruction	10Hz~ 55Hz. , 1.5mm double amplitude		
	Malfunction	NO : 55Hz~200Hz. , 98m/S <sup>2</sup>		
	Manunction	NC: 55Hz~200Hz., 49m/S <sup>2</sup>		
Shock resistance	Destruction	980m/S <sup>2</sup>		
	Malfunction	98m/S <sup>2</sup>		
Ambient temperature		-40~+85°C (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(g)		Approx. 20g		

## ORDERING INFORMATION

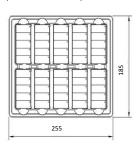


# **OUTLINE DIMENSION**

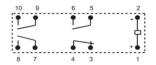


# PACKAGING FIGURE

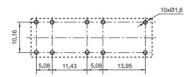
**Box** ( 50 pcs inside a box ; 500 pcs inside a carton )



# WIRING DIAGRAMS (BOTTOM VIEWS)



# PC BOARD LAYOUTS (BOTTOM VIEWS)



### Remark:

- 1) 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.
- 2) The reference tolerance for PC Board layout is ±0.1mm.

### 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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