

FEATURES

- Outline dimension(30.3×15.9×20.4)
- 1 Form A(SPST-NO) arrangement
- Designed to meet UL/cUL,TUV,CQC requirements
- 4,500VAC dielectric strength between coil and contact
- F class Insulation System
- RoHS compliance
- REACH SvHC compliance
- Halogen-Free type available



File NO. E341422



File NO. R50366268



File NO. CQC16002152596

APPLICATION

Air Conditioner, Micro-oven, Washing Machine...etc

COIL PARAMETER

Coil voltage	5-48VDC
Coil power	900mW

COIL DATA@23°C

CHE				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	180.0	28	3.75	0.25
6	150.0	40	4.5	0.30
9	100.0	90	6.75	0.45
12	75.0	160	9	0.60
18	50.0	360	13.5	0.90
24	37.5	640	18	1.20
48	18.8	2560	36	2.40

CONTACT DATA

Contact arrangement	1 Form A(SPST-NO)
Contact material	Ag Alloy
Initial contact resistance	100m Ω max.@6VDC,1A
Max. switching voltage	277VAC/30VDC
Max. switching current	30A
Max. switching power	8,310VA / 900W
Contact rating	20A 277VAC, Resistive
	25A 277VAC, Resistive
	20A 30VDC, Resistive
	30A 250VAC, Resistive for QC type,30K cycles
	25A 250VAC, Inductive(cos ϕ =0.75)
	25A stable current , 85A Inrush current, 250VAC
2HP 250VAC Motor	
Mechanical endurance	10,000,000 ops Min.(no load)
Electrical endurance	100,000 ops Min.(rated load 1s on /9s off)
Minimum load(reference value)	100mA @5VDC

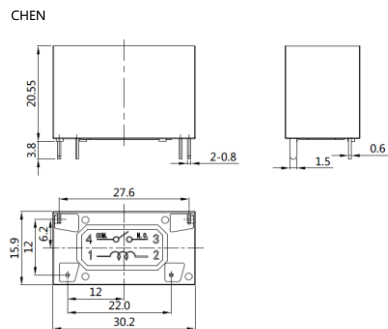
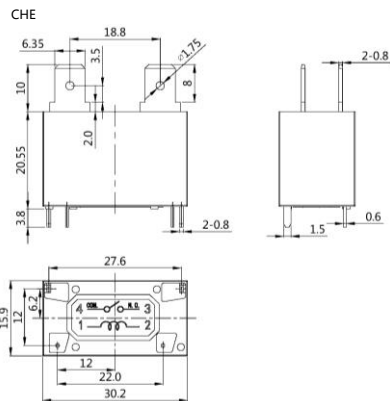
CHARACTERISTICS

Operate voltage	75% of nominal voltage or less	
Release voltage	5% of nominal voltage or more	
Operate time (At nominal voltage)	20ms max.	
Release time(At nominal voltage)	20ms max.	
Insulation resistance	1,000 M Ω min. (at 500 VDC)	
Insulation system	155 (F)	
Dielectric strength	Between coil and contacts	4,500 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	100m/S ² (10G approximately)
Ambient temperature	-40°C~ +85°C (without icing or condensation)	
Ambient humidity	20%~85% RH	
Terminal	PCB terminal & #250 Quick connect terminal	
Enclosure (94V-0 Flammability Ratings)	V: Vented(Flux-tight),plastic cover.(RT II)	
	S: Sealed,plastic cover.(RT III)	
Weight	Approx. 20g	

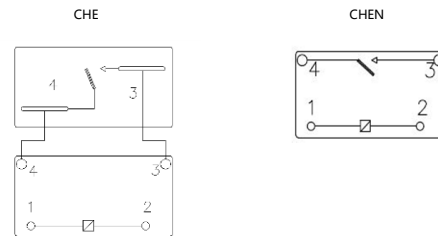
ORDERING INFORMATION

	CHE	-S	-1	12	D	A	2	(20A)	000
1. Product Family	CHE = #250 Quick Connect CHEN = PCB Terminal only								
2. Enclosure	V = Vented(Flux-tight),plastic cover.(RT II) S = Sealed,plastic cover.(RT III)								
3. Number of Poles	1 = 1 pole								
4. Rated Coil Voltage	05 = 5VDC 06 = 6VDC 09 = 9VDC 12 =12VDC 24 = 24VDC 48=48VDC								
5. Coil Input	D = Standard(900mW)								
6. Contact Arrangement	A = Form A (SPST-NO)								
7. Contact material	2 = AgSnO ₂								
9. Nominal Current	(20A)=Nominal Current 20A (25A)=Nominal Current 25A								
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								

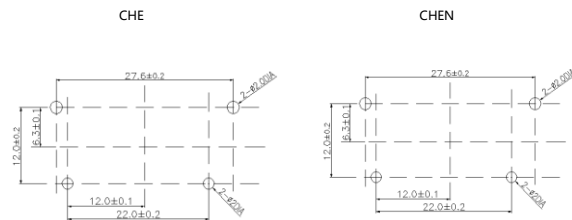
OUTLINE DIMENSION



WIRING DIAGRAMS (BOTTOM VIEWS)



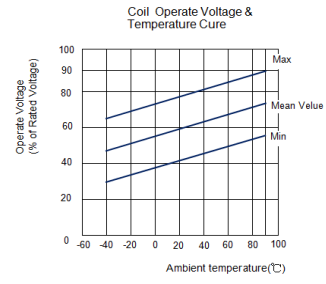
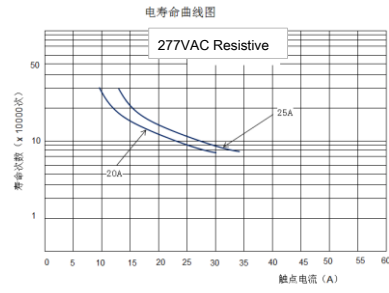
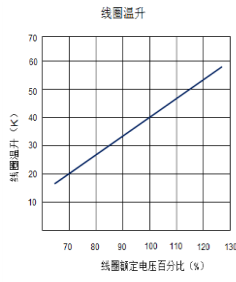
PC BOARD LAYOUTS (BOTTOM VIEWS)



Remark:

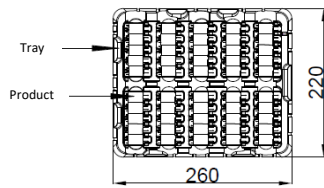
- The reference tolerance in outline dimension:
 - outline dimension $\leq 1\text{mm}$, reference tolerance is $\pm 0.2\text{mm}$;
 - outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, reference tolerance is $\pm 0.3\text{mm}$;
 - outline dimension $> 5\text{mm}$, n
- The reference tolerance for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

Reference Data



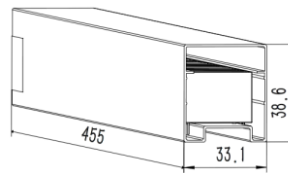
PACKAGING FIGURE

1.Box



50 pcs inside a box
500 pcs inside a carton

2.Tube



25 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.

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