

CHFN SOLAR RELAY

FEATURES

- Outline dimension(30.1×15.7×26.5)
- 1 Form A(SPST-NO) arrangement
- Designed to meet UL/cUL,TUV,CQC requirements
- 4,500VAC dielectric strength between coil and contact
- Contact Gap:>=2.25mm
- F class Insulation System
- RoHS compliance
- Halogen-Free type available

APPLICATION

Solar Inverter, AC/DC Power Source, Industry Control...etc

COIL PARAMETER

Coil voltage	9-24VDC
Coil power	1.4W
Holding voltage	40%~120%U _N (at 23℃)
1) 2)	50%~80%Uℕ (at 85℃)

Note: 1) The coil holding voltage is that voltage of relay coil after being applied rated voltage for 100ms.
2) The relay does not allow for a long time to maintain the upper limit of the holding voltage. It is suggested that when the relay coil applied to the rated voltage 100ms, then decreases to the lower limit value of the voltage specification, prevent overheating of relay.

COIL DATA@23°C

CHFN Solar						
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)		
9	156.0	58	6.75	0.45		
12	117.0	103	9.00	0.60		
18	78.0	231	13.50	0.90		
24	58.0	411	18.00	1.20		

CONTACT DATA

Contract arran game ant					
Contact arrangement	1 Form A(SPST-NO)				
Contact material	Ag Alloy				
Initial contact resistance	100mΩ max.@6VDC,1A				
Max. switching voltage	277V AC				
Max. switching current	35A				
Max. switching power	9,695VA				
	20A 250VAC/277VAC, Resistive				
	31A 250VAC/277VAC, Resistive				
Contact rating	35A 250VAC/277VAC, Resistive				
Contact rating	20A 250VAC/277VAC, Inductive(cosφ =0.8)				
	31A 250VAC/277VAC, Inductive(cos				
	35A 250VAC/277VAC, Inductive(cosφ =0.8)				
Mechanical endurance	500,000 ops Min.(no load)				
Electrical endurance	30,000 ops Min.(rated load)				
Minimum load(reference value)	100mA@5VDC				

CHARACTERISTICS

Operate voltage			75% of nominal voltage or less			
Release voltage			5% of nominal voltage or more			
Operate ti	me (At no	minal voltage)	20ms max.			
Release ti	me(At noi	minal voltage)	10ms max.			
Insulation resistance		е	1,000 MΩ min. (at 500 VDC)			
Insulation system			155(F)			
Dielectric	Between coil and contacts		4,500 VAC, 50/60 Hz for 1 min			
strength	Between open contacts		2,800 VAC, 50/60 Hz for 1 min			
Surge volta	ge betwee	n coil and contacts	10,000V(1.2/50µs)			
Vibration		Destruction	10 to 55 Hz.,1.5mm double amplitude			
resistance		Malfunction	10 to 55 Hz.,1.5mm double amplitude			
Shock resistance		Destruction	1,000 m/s ² (100G approximately)			
SHOCK IES	ISTALICE	Malfunction	100 m/s ² (10G approximately)			
Ambient temperature		ē	Operating: -40~+85℃ (without icing or condensation)			
Ambient humidity			Operating: 20% to 85% RH			
Terminal			PCB terminal			
Enclosure (94V-0 Flammability Ratings)		nmability Patings)	V: Vented(Flux-tight),plastic cover.(RT II)			
		ninability (tauligs)	S:Sealed,plastic cover.(RT III)			
Weight			Approx. 23g			
* De elve en	Ouentitu	500pcc/Carton				

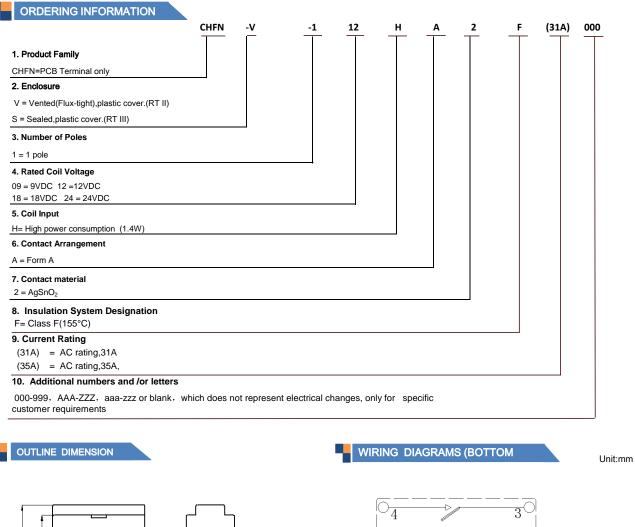
* Package Quantity:500pcs/Carton

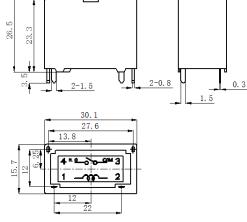
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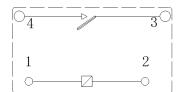
31A~35A POWER RELAY

....UL File NO. E341422 ▲ TUV File NO. R50220099CQC File NO. CQC1100206606



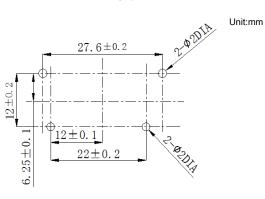






PC BOARD LAYOUTS (BOTTOM

Unit:mm

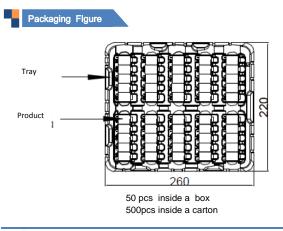


Remark:

 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.

Typical produ	cts								
Product Description		Characteristic							
Product Name	Code	Coil Rated voltage	Contact material	Contact Load	Electrical endurance	Safety certification	Glow	Anti- explosio	Special Feature
CHFN-V-1**HA2F(31A)	000	12V, 24V	Ag alloy	31A @277VAC	30000ops.min	UL/cUL,TUV,CQC			
CHFN-S-1**HA2F(31A)					10000ops.min				
CHFN-V-1**HA2F(35A)		120、240		35A @277VAC	30000ops.min				
CHFN-S-1**HA2F(35A)					10000ops.min				

Remarks: Special ordering for other requirements



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