

CHF/CHFN Series

20A~25A MINIATURE POWER RELAY

FEATURES

- Outline dimension (30.1mm×15.7mm×23.3mm)
- #250 quick connect terminal and PCB terminal
- 1 Form A (SPST) contact arrangement
- Designed to meet cULus,TUV,CQC requirements
- 4,500VAC Dielectric strength between coil and contact
- RoHS compliance
- REACH SvHC compliance
- Explosion-proof type

APPLICATION

Air Condition, Washing Machine

COIL PARAMETER

Coil voltage	5-48VDC
Coil power	900mW

COIL DATA @23°C

CHF/CHFN				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	180.0	28	3.75	0.25
6	150.0	40	4.50	0.30
9	100.0	90	6.75	0.45
12	75.0	160	9.00	0.60
18	50	360	13.50	0.90
24	37.5	640	18.00	1.20
48	18.8	2560	36.00	2.40

UL File NO. E341422
TUV File NO. R50220099
CQC File NO. CQC1100206606



CONTACT DATA

Contact arrangement	1 Form A (SPST)
Contact material	Ag Alloy
Initial contact resistance	100mΩ max.@6VDC,1A
Max. switching voltage	250V AC/30V AC
Max. switching current	25A
Max. switching power	10,000VA/1200W
Contact rating (Resistive Load)	25A 250VAC,Resistive
	25A 30VAC,Resistive
	20A 250VAC,Resistive
	20A 30VAC,Resistive
	25A 250VAC,Inductive(cos Φ =0.75)
	25A FLA/ 85 LRA 250V AC
2HP 240VAC,Motor	
Mechanical endurance	10,000,000 ops Min.(no load)
Electrical endurance	100,000 ops Min.(rated load)
Minimum load (reference value)	100mA@5VDC

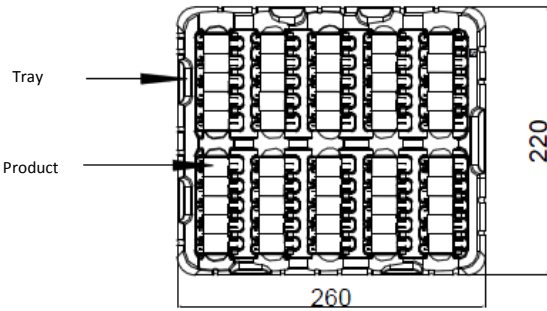
CHARACTERISTICS

Operate voltage	75% of nominal voltage or less	
Release voltage	5% of nominal voltage or more	
Operate time (At nominal voltage)	20ms max.	
Release time(At nominal voltage)	10ms max.	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
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(1.2/50μs)	
Vibration resistance	Destruction	10 to 55 Hz.,1.5mm double amplitude
	Malfunction	10 to 55 Hz.,1.5mm double amplitude
Shock resistance	Destruction	1,000 m/s ² (100G approximately)
	Malfunction	100 m/s ² (10G approximately)
Ambient temperature	Operating: -40~+85°C (without icing or condensation)	
Ambient humidity	Operating: 20% to 85% RH	
Terminal	PCB terminals and #250 quick connect	
Enclosure (94V-0 Flammability Ratings)	V: Vented(Flux-tight, RTII)	
	S: Sealed(Wash-tight, RTIII)	
Weight	Approx. 23g	

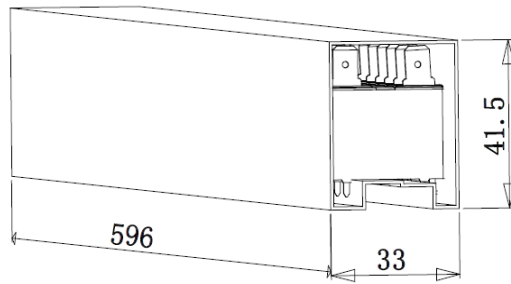
Typical products

Product Description		Characteristic										
Product Name	Code	Coil Rated voltage	Contact material	Contact Load	Electrical endurance	Safety certification	Glow	Anti-explosio	Special Feature			
CHF-V-1**DA2	000	3V,5V,6V,9V, 12V,18V,24V .48V	AgSnO ₂	25A @250VAC	100000ops.min	UL/cUL,TUV,CQC						
	200			20A @250VAC								
	700			25A @250VAC			●					
	600			20A @250VAC			●					
CHF-S-1**DA2	F700			25A @250VAC			●	●				
	F600			20A @250VAC			●	●				
CHFN-V-1**DA2	000							25A @250VAC				
	200			20A @250VAC								
	600			20A @250VAC			●					
	700			25A @250VAC			●					
CHFN-S-1**DA2	F700							25A @250VAC				
	F600							20A @250VAC			●	

Packaging Figure



50 pcs inside a box
500pcs inside a carton



34 pcs inside a tube