

Features

- 4 sets of 40A main contacts+1 set of auxiliary contact
- When the main contact sticks,Auxiliary contacts meet the safety monitoring function (According to IEC61810-3)
- Contact gap :3.9mm(main contact)
Auxiliary contact:Min0.5mm(When the main contact sticks)
- Coil power is 4.8W
- UL insulation system:Class F
- Meet the 3KA short circuit current test of IEC 62955
- Creep distance:>8mm
- Outline Dimensions:(58x35x47)mm
- Main applications: Inverter for solar photovoltaic power generation, AC charge spot
- The coil voltage applied to complete machine to save power loss



CHARACTERISTICS

Specifications	Item			
Contact Data	Contact arrangement		2A/2AB	4A/4AB
	Contact resistance(initial)	Main contact	$\leq 10\text{m}\Omega(6\text{VDC } 20\text{A})$	
		Auxiliary contact	$\leq 100\text{m}\Omega(6\text{VDC } 1\text{A})$	
	Contact material	Main contact	AgSnO ₂	
		Auxiliary contact	AgNi	
Rated value	Rated load (Resistance load)	Main contact	40A 480VAC	
		Auxiliary contact	1A 277VAC, 1A 30VDC	
	Max.switching voltage	Main contact	480VAC	
		Auxiliary contact	277VAC, 30VDC	
	Max.switching current	Main contact	40A	
		Auxiliary contact	1A	
Electrical performance	Max.switching capacity	Main contact	19200VA	
		Auxiliary contact	277VA/30W	
	Insulation resistance(initial)		1000M Ω (500VDC)	
	Dielectric strength (Initial)	Disconnect between main contacts	2000VAC 1min(50Hz/60Hz)	
		Between main contact and auxiliary contact		
		Between main contact groups		
		Between coil and auxiliary contact		
		Between the coil and the main contact	5000VAC 1min(50Hz/60Hz)	
		Disconnect between auxiliary contacts	1000VAC 1min(50Hz/60Hz)	
	Operate time		$\leq 40\text{ms}$	
	Release time		$\leq 20\text{ms}$	

Specifications	Item					
Contact Data	Contact arrangement		2A/2AB		4A/4AB	
Mechanical performance	Shock resistance	Functional	main contact 98m/s ² (10g)			
		Destructive	980m/s ² (100g)			
	Vibration resistance		main contact10Hz~55Hz 1.5mm DA			
Endurance	Mechanical		1×10 ⁶ ops			
	Electrical (main contact)	ON/OFF=1S/9S	40A	480VAC	Resistive	3×10 ⁴ ops
	Electrical (auxiliary contact)		1A	277VAC	Resistive	1×10 ⁵ ops
			1A	30VDC	Resistive	1×10 ⁵ ops
Surge voltage (Between coil&contacts)			10kV(1.2/50 μ s)			
Operate condition	Ambient temperature		-40℃~+85℃			
	Humidity		5%~85%RH			
Unit weight			Approx.168g		Approx.180g	
Construction			Flux proofed			

Note:The above datas are the initial values

■ COIL DATA(23℃)

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)A	Coil Resistance (±10%)Ω	Nominal Power	Sustaining voltage	Max Voltage VDC
DC 6V	≤4.5	≥0.3	0.8	7.5	4.8	40%-100%Un (Ambient temperature25℃) 50%-60%Un (Ambient temperature85℃)	6.6
DC 9V	≤6.75	≥0.45	0.53	16.9			9.9
DC 12V	≤9	≥0.6	0.4	30			13.2
DC 24V	≤18	≥1.2	0.2	120			26.4
DC 48V	≤36	≥2.4	0.1	480			52.8

Remark:(1)The coil sustaining voltage applied to coil 100ms after the rated voltage.

(2)To avoid overheating and buring,the coil can not be consistently applied to with voltage larger than maximum sustaining voltage.

■ ORDERING INFORMATION

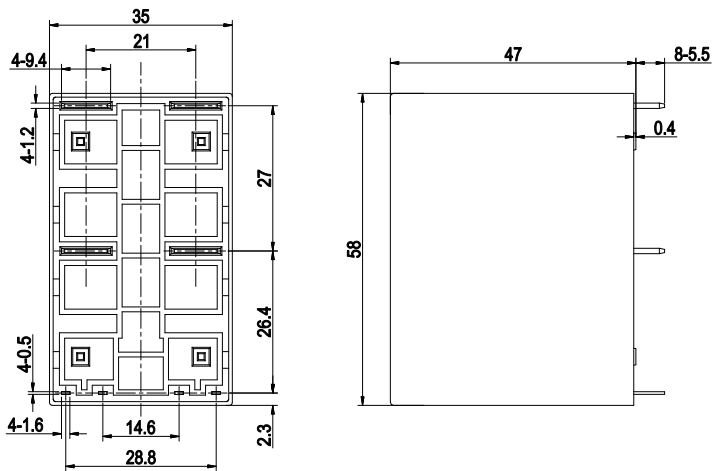
	FH62NE	4A	S	T	B	-XXX	-DC12V
① Type							
② Contact arrangement:2A=2 open contacts 4A=4 open contacts							
③ Construction(1):Nil=Flux proofed S=Plastic sealed							
④ Contact material:T=AgSnO ₂							
⑤ Auxiliary switch: None = no auxiliary switch、 B= auxiliary switch normally closed							
⑥ Customer special code:numbers or letters denote customer's requirements							
⑦ Coil specification:DC6/9/12/24/48V							



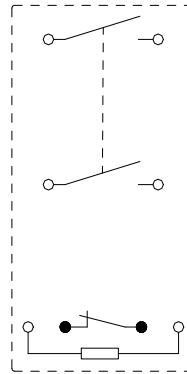
■ WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

2A/2AB

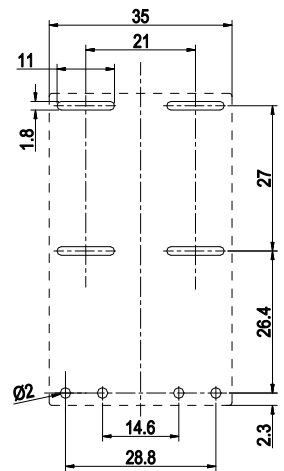
Outline Dimensions



Wiring Diagram
(Bottom view)

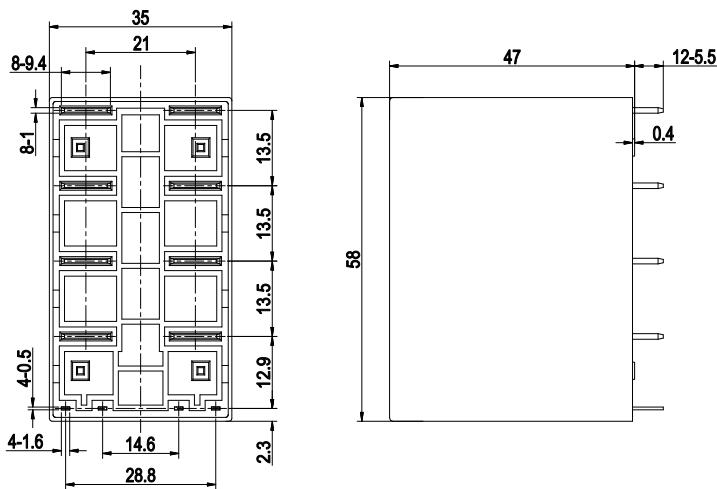


PCB Layout
(Bottom view)

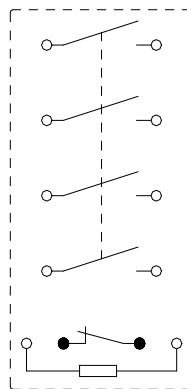


4A/4AB

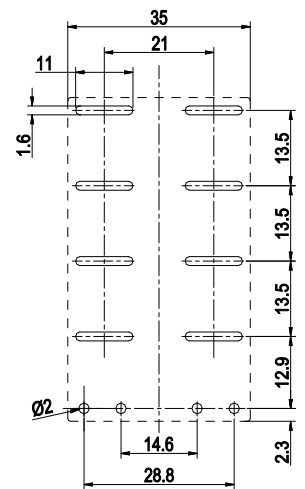
Outline Dimensions



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)



Remark:(1)In case of no tolerance shown in outline dimension:outline dimension \leq 1mm,tolerance should be \pm 0.2mm;
outline dimension $>$ 1mm and $<$ 5mm,tolerance should be \pm 0.3mm;outline dimension \geq 5mm,tolerance
should be \pm 0.5mm.

(2) The tolerance without indicating for PCB layout is always \pm 0.1mm.



■ NOTICE

- ① In order to maintain the initial performance parameters of the relay, please be careful not to drop the product or be affected by external force;
- ② The soldering temperature of load extraction terminal with copper is $260^{\circ}\text{C}\pm 5^{\circ}\text{C}$, soldering time is 3~5S;
- ③ The specification is for reference only. Specifications subject to change without notice.

