

Features

- Contact gap is 4.0mm
- 40A switching capability,200A loading current capability
- Outline Dimensions:(45X40X50)mm
- UL insulation system:Class F
- Main application: PV inverter,Inverter precharge circuit control, Industrial control device



■ CHARACTERISTICS

Specifications	Item			
Contact Data	Contact arrangement	1A		
	Contact resistance(initial)	$\leq 2\text{m}\Omega$ (6VDC 20A)		
	Contact material	AgSnO ₂		
Rated value	Rated load(Resistance load)	Connecting 40A,carrying 200A, breaking 40A 277VAC		
	Max.switching voltage	830VAC		
	Max.switching current	50A		
	Max.switching capacity	41500VA		
Electrical performance	Insulation resistance(initial)	1000M Ω (at500VDC)		
	Dielectric strength (initial)	Disconnect between main contacts 2500VAC 1min (50Hz/60Hz)		
		Between coil&contacts 5000VAC 1min (50Hz/60Hz)		
	Operate time	$\leq 30\text{ms}$		
	Release time	$\leq 10\text{ms}$		
Mechanical performance	Shock resistance	Functional 98m/s ² (10g)		
		Destructive 980m/s ² (100g)		
	Vibration resistance			
Endurance	Mechanical			
	Electrical	1×10^6 ops		
		Connecting 40A carrying 200A breaking 40A 277VAC Resistive 3×10^4 ops		
Surge voltage (Between coil&contacts)				
10KV(1.2/50 μ s)				
Operate condition	Ambient temperature			
	Humidity			
Unit weight				
Approx.158g				
Construction				
Flux proofed				

Note:The above datas are the initial values



Fanhar Electric Latching Relay

ISO9001、ISO14001 Certified Company

2025

Zhejiang Fanhar Electronics Co.,Ltd

■ COIL DATA(23°C)

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	0.533	11.3	3.2W	40%-100%Un (Ambient temperature25°C)	6.6
DC 9V	≤6.75	≥0.45	0.356	25.3			9.9
DC 12V	≤9	≥0.6	0.267	45		50%-60%Un (Ambient temperature85°C)	13.2
DC 24V	≤18	≥1.2	0.133	180			26.4
DC 48V	≤36	≥2.4	0.067	720			52.8

Remark:

- 1.the coil holding voltage is the voltage applied to coil 100ms after the rated voltage;
- 2.To avoid overheating and burning, the coil can not be consistently applied to with voltage larger than maximum holding voltage.

■ ORDERING INFORMATION

FH66NE 200 -1A 1 T F -XXX -DC12V

① Type

② Rated Current:200=200A

③ Contact arrangement:1A=1 open contacts

④ Terminal:1=2-3×13 2=2-2.5×14

⑤ Contact material:T=AgSnO₂

⑥ Insulation standard:Nil=Blank F=Class F

⑦ Customer special code:numbers or letters denote customer's requirements

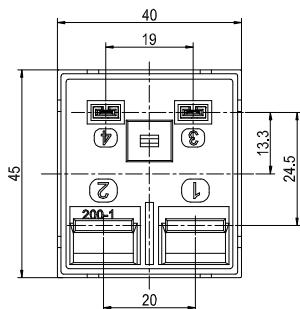
⑧ Coil specification:DC6/9/12/24/48V



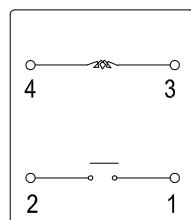
■ WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

1A1

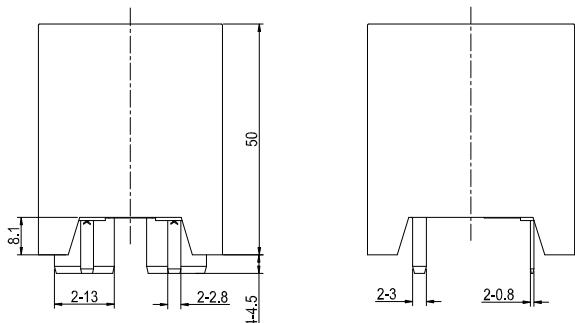
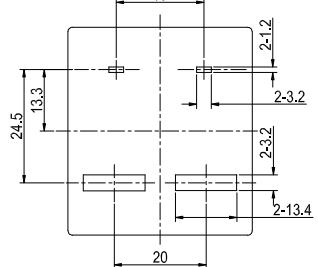
Outline Dimensions



Wiring Diagram
(Bottom view)

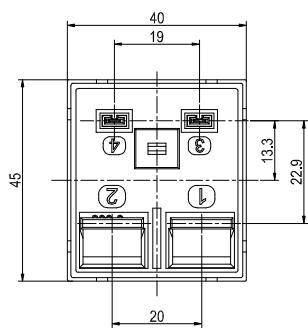


PCB Layout
(Bottom view)

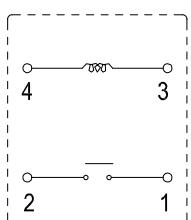


1A2

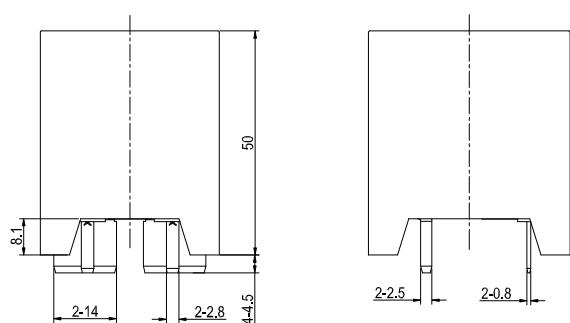
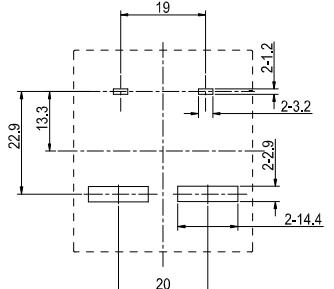
Outline Dimensions



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.



Fanhar Electric Latching Relay

ISO9001、ISO14001 Certified Company

2025

Zhejiang Fanhar Electronics Co.,Ltd

■ SAFETY APPROVAL RATINGS

Approval	File No.	Approved ratings
UL/C-UL	E475405	Connecting 50A/40A carrying 200A breaking 50A/40A 830VAC /277VAC Resistive 85°C 100A 277VAC /250VAC Resistive 85°C
TUV	R 50601543	Connecting 50A/40A carrying 200A breaking 50A/40A 830VAC /277VAC Resistive 85°C
CQC	CQC23002405299	Connecting 50A/40A carrying 200A breaking 50A/40A 830VAC /277VAC Resistive 85°C

■ 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 $260^{\circ}\text{C}\pm5^{\circ}\text{C}$,soldering time is 3~5S;
- ③ The specification is for reference only.Specifications subject to change without notice.

