FH66NE200

Power Relay

Features

- Contact gap is 4.0mm
- 200A contact switching 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)		≤2mΩ(6VDC 20A)				
	Contact material		AgSnO ₂				
	Rated load	(Resistance load)	Connecting 50A,carrying 200A, breaking 50A 830VAC				
	Max.switch	ning voltage	830VAC				
Rated value	Max.switching current		200A				
	Max.switching capacity		166000VA				
	Insulation resistance(initial)		1000MΩ(at500VDC)				
	Dielectric strength (initial)	Disconnect between main contacts	2500VAC 1min (50Hz/60Hz)				
Electrical performance		Between coil&contacts	5000VAC 1min (50Hz/60Hz)				
	Operate time		≤30ms				
	Release tir	ne	≤10ms				
	Shock	Functional	98m/s²(10g)				
Mechanical	resistance	Destructive	980m/s²(100g)				
performance	Vibration resistance		10Hz~55Hz 1.5mm DA				
	Mechanica	I	1×10 ⁶ ops				
Endurance	Electrical	ON/OFF=1S/9S	Connecting 50A carrying 200A breaking 50A 830VAC				
			Resistive 85℃ 3×10 ⁴ ops				
Surge voltage	Surge voltage (Between coil&contacts)		10KV(1.2/50μs)				
Operate	Ambient temp	erature	-40℃~+85℃				
condition	Humidity		5%~85%RH				
Unit weight			Approx.147g				
Construction			Flux proofed				

Note: The above datas are the initial values



■ 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		40%-100%Un (Ambient temperature25℃) 50%-60%Un (Ambient temperature85℃)	6.6
DC 9V	≤6.75	≥0.45	0.356	25.3			9.9
DC 12V	≤9	≥0.6	0.267	45	3.2W		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 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

	FH66NE	200	-1A	1	т	-XXX	-DC12V
① Туре							
② Rated Current:200=200A							
③ Contact arrangement:1A=1 open contact							
④ Terminal:1=2-3×13 2=	=2-2.5×14						
⑤ Contact material:T=Ag8	SnO ₂						
6 Customer special code:numbers or letters denote customer's requirements							
⑦ Coil specification:DC6/9	9/12/24/48V						

WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

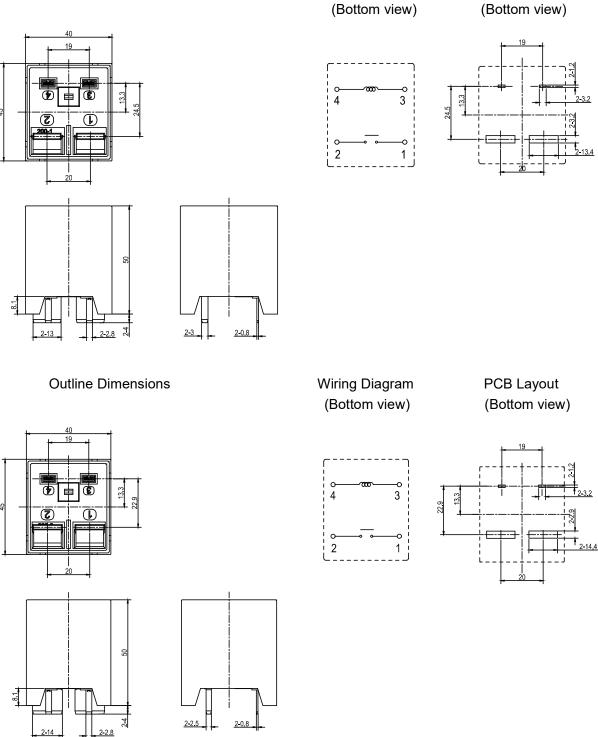
Outline Dimensions

1A1

1A2

Wiring Diagram

PCB Layout (Bottom view)



Remark:(1)In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension>1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.
(2) The tolerance without indicating for PCB layout is always ±0.1mm.

SAFETY APPROVAL RATINGS

Approval	File No.	Approved ratings		
UL/C-UL	E475405	Connecting 50A/40A carrying 200A breaking 50A/40A 830VAC /277VAC	Resistive 85℃	3×10 ⁴ ops
		100A 277VAC /250VAC	Resistive 85℃	2×10⁴ops
TUV	R 50601543	Connecting 50A/40A carrying 200A breaking 50A/40A 830VAC /277VAC	Resistive 85℃	3×10⁴ops
CQC	CQC2300240 5299	Connecting 50A/40A carrying 200A breaking 50A/40A 830VAC /277VAC	Resistive 85 ℃	3×10⁴ops

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°C±5°C, soldering time is 3~5S;
- ③ The specification is for reference only.Specifications subject to change without notice.