FH67NE

Features

- 200A/270A switching capability
- One set of double-break with normally open type,

Contact gap≥4.0mm

- UL insulation system:Class F
- The whole machine applies the coil to maintain the voltage, saving power loss
- Provide the type with heat-sink,
 the heat dissipation effect is more better
- Environment-friendly product(RoHS compliant)
- Main application: PV inverter, Industrial control device



CHARACTERISTICS

Specifications	Item				
Contact Data	Contact arrangement		1A		
	Contact resistance(initial)		≤1mΩ(6VDC 20A)		
	Contact material		AgSnO ₂		
Rated value	Rated Current (carrying)		200A	270A	
	Rated load(Resistance load)		Making: 55A, Loading: Rated Current, Breaking: 55A		
	Max.switching voltage		1000VAC		
	Max.switching current		220A	275A	
	Max.switching capacity		220000VA	275000VA	
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)		
	Dielectric strength	Between open contacts	2500VAC,1 min		
	(initial) Between coil&contacts		5000VAC,1 min		
	Operate time(Nominal Voltage)		≤45ms		
	Release time(Nominal Voltage)		≤10ms		
Mechanical	Shock	Functional	98m/s ² (10g)		
performance	resistance	Destructive	980m/s ² (100g)		
	Vibration resistance		10Hz∼55Hz 1.0mm DA		
Endurance	Mechanical		1×10 ⁶ ops(ON/OFF: 0.2s/0.2s)		
Endurance	Electrical(Resistance load)		≥3×10⁴ops(at 85°C,ON/OFF=1s/9s)		
Operate	Ambient temperature		-40℃~85℃		
condition	Humidity		5% to 85%		
Termination			PCB		
Unit weight			Standard Type: Approx.225g With heat sink type: Approx.235g		
Construction			Flux proofed		

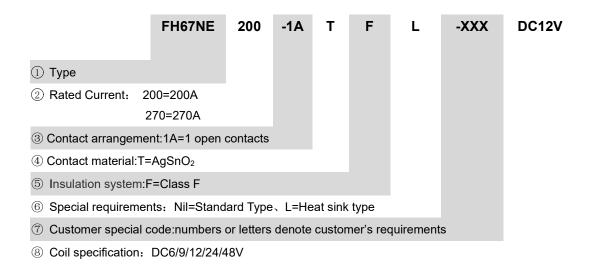
COIL DATA(23℃)

Nominal Voltage	Operate Voltage VDC	Release Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Sustaining voltage	Max Voltage
DC 6V	≤4.50	≥0.30	666.7mA	9Ω	55%∼100%Un (Ambient temperature23℃) 55%∼60%Un (Ambient temperature85℃)	550/ 4000/Ll-	DC 7.2V
DC 9V	≤6.75	≥0.45	444.4mA	20.3Ω			DC 10.8V
DC 12V	≤9.00	≥0.60	333.3mA	36Ω		DC 14.4V	
DC 24V	≤18.00	≥1.20	166.7mA	144Ω			DC 28.8V
DC 48V	≤36.00	≥2.40	83.3mA	576Ω		DC 57.6V	

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.
- (3)The maximum voltage refers to the maximum voltage that the relay can withstand in a short period of time.

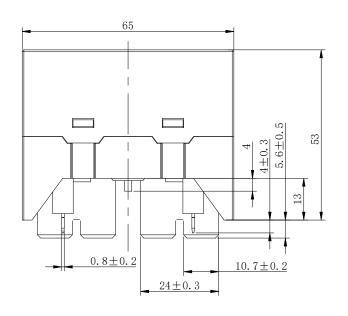
ORDERING INFORMATION

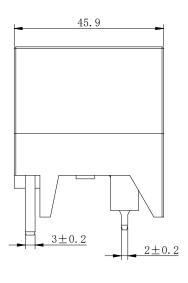


WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

Standard Type

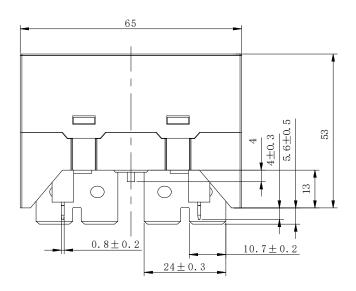
Outline Dimensions

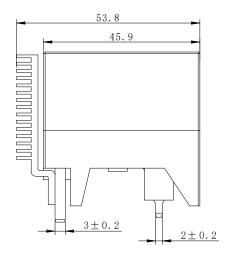




With heat sink type

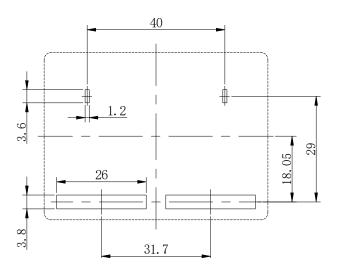
Outline Dimensions



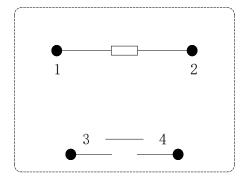


WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

Wiring Diagram (Bottom view)



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.
- (3)Since the heat sink is live as a whole, it is forbidden to install any metal parts or components within 10mm of the heat dissipation device.
- (4) The FH67NE 200 has no slot at the bottom of the main terminal, and the FH67NE 270 has a slot at the bottom of the main terminal.

SAFETY APPROVAL RATINGS

Approval	File No.	Contact material	Approved ratings	
UL/C-UL	1	AgSnO ₂	Connecting 55A, Carrying 200A/270A, Breaking 55A, 1000VAC, 85°C, 30000ops, Resistive loads	
TUV	1	AgSnO ₂		
CQC	1	AgSnO₂	1000 VAC, 65 C, S00000ps, Resistive loads	

NOTICE

- 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 specification is for reference only. Specifications subject to change without notice.