FH63NE

Features

- 120A contact switching capability
- Coil power is 4.8W
- Contact gap is 3.0mm
- UL insulation system:Class F
- Outline Dimensions:(71x43x24.6)mm
- Main application: Power supply, Photovoltaic new energy



■ CHARACTERISTICS

Specifications	Item							
Contact Data	Contact arrangement		1A					
	Contact resistance(initial)		≤10mΩ(6\	/DC 20A)				
	Contact material		AgSnO ₂					
Rated value	Rated load(Resistance load)		120A 41	5VAC				
			120A 30	VDC				
	Max.switching voltage		415VAC/3	0VDC				
	Max.switching current		120A					
	Max.switching capacity		49800VA/	3600W				
Electrical performance	Insulation resistance(initial)		1000ΜΩ(5	500VDC)				
	Dielectric	Between open contacts	2000VAC	1min(50Hz/60Hz)				
	strength (initial)	Between coil&contacts	5000VAC	1min(50Hz/60Hz)				
	Operate time		≤30ms					
	Release time		≤15ms					
Mechanical	Shock	Functional	98m/s²(10	g)				
performance	resistance	Destructive	980m/s ² (1	00g)				
performance	Vibration resistance		10Hz~55H	Hz 1.5mm DA				
Endurance	Mechanical		1×10 ⁵ ops					
	Electrical (ON/OFF=1S/9S	120A	415VAC	Resistive	85℃	1×10 ⁴ ops	
Operate	Ambient temperature		-40℃~+8	5℃				
condition	Humidity		5%~85%RH					
Surge voltage (Between coil&contacts)			10kV(1.2/50μs)					
Surge current			400A/350VDC/4ms					
Unit weight			Approx.175g					
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	0.8	7.5		40%-100%Un	6.6
DC 9V	≤6.75	≥0.45	0.533	16.9	4.8W	(Ambient temperature23℃)	9.9
DC 12V	≤9.00	≥0.6	0.4	30	4.000	50%-60%Un	13.2
DC 24V	≤18.00	≥1.2	0.2	120		(Ambient temperature85℃)	26.4

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

1 Type

2 Contact arrangement:1A=1 open contacts

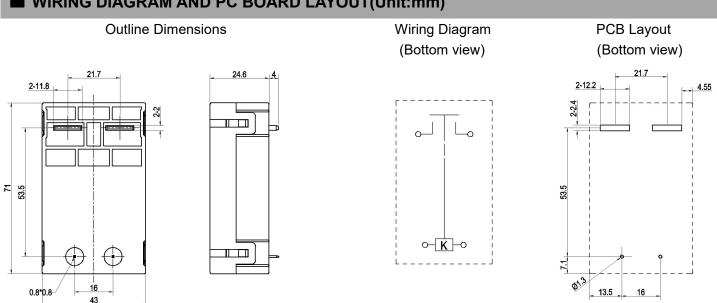
3 PCB mounting:1=Type A

4 Contact material:T=AgSnO₂

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

6 Coil specification:DC6/9/12/24V

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



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	120A	277VAC /288VAC /305VAC /415VAC	Resistive	85℃	1×10 ⁴ ops		
		5HP	250VAC		85℃	1×10 ⁴ ops		
		TV-20	120/240VAC		85℃	2.5×10 ⁴ ops		
		120A	30VDC		85℃	5×10⁴ops		
TUV	R 50602583	120A	277VAC /288VAC /305VAC /415VAC	Resistive	85 ℃	1×10 ⁴ ops		
		120A	30VDC		85 ℃	5×10⁴ops		
CQC	CQC23002405300	120A	277VAC /288VAC /305VAC /415VAC	Resistive	85 ℃	1×10⁴ops		
		120A	30VDC		85 ℃	5×10⁴ops		

■ 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;
- Relays are customized products, the above cases are only for reference. If you have any questions, please contact fanhar for more technical support;
- (4) The specification is for reference only. Specifications subject to change without notice.