FH44L

Features

- 16A switching capability
- Single coil and double coils are all available
- Highly sensitive product,coil power consumption is 250mW
- More lower height(the height is 15.5mm)
- Breakdown voltage (between coil and contacts):4KV
- UL insulation system:Class F
- Environmental friendly product(RoHS compliant)
- Outline Dimensions:(20.2×10×15.5)mm
- Main application:Home appliance, Smart home







TV-8 c

CHARACTERISTICS

Specifications	Item						
	Contact arrangement		1A, 1B				
Contact Data	Contact resistance		≤50mΩ(6VDC 1A)				
	Contact material		AgSnO ₂				
	Rated load(Resistance load)		16A 250VAC				
	Max.switch	ing voltage	277VAC				
Rated value	Max.switch	ing current	20A				
	Max.switch	ing capacity	4000VA				
	Min.allowing load		5VDC 100mA				
	Insulation r	esistance(initial)	1000MΩ(500VDC)				
	Dielectric	Between open contacts	1000VAC,1min				
Electrical performance	strength (initial))	Between coil&contacts	3500VAC,1min				
	Set time		≤10ms				
	Reset time		≤10ms				
Machanical	Shock	Functional	98m/s²(10G)				
Mechanical	resistance	Destructive	980m/s²(100G)				
performance	Vibration resistance		10Hz~55Hz 1.5mm DA				
	Mechanical		1×10 ⁶ ops				
Endurance			16A 250VAC	5×10 ⁴ ops(ON/OFF=1s/9s)			
	Electrical(Room temperature)		20A 250VAC	1×10 ⁴ ops(ON/OFF=1s/9s)			
Operate	Ambient temperature		-40°℃~85°℃				
condition	Humidity		5% to 90%				
Termination			PCB				
Unit weight			Approx.7g				
Construction			Plastic sealed, Flux proofed				

■ COIL DATA(23°C)

Single coil latching

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	Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	Max Voltage	
	Voltage	VDC	VDC	(±10%)	(±10%)	Power	wax voltage	
	DC 3V	≤2.4	≤2.4	83.3mA	36Ω		DC 4.5V	
	DC 5V	≤3.75	≤3.75	50.0 mA	100Ω	250mW	DC 7.5V	
	DC 12V	≤9.00	≤9.00	20.8 mA	576Ω	2501110	DC 18V	
	DC 24V	≤18.00	≤18.00	10.4 mA	2304Ω		DC 36V	

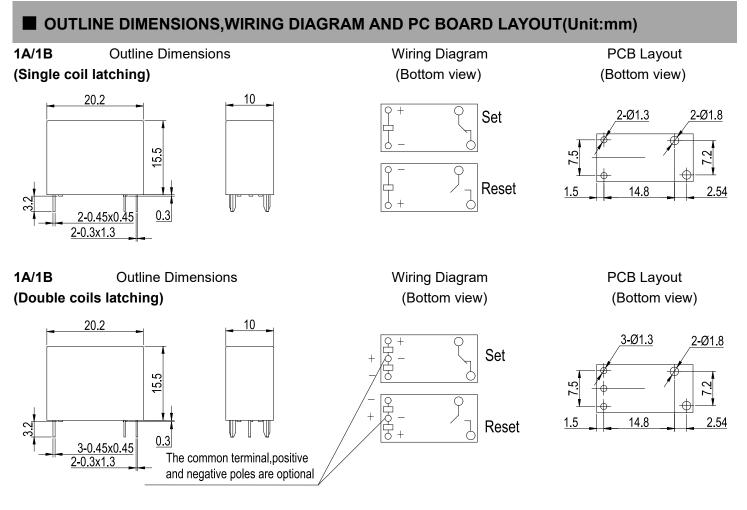
Double coils latching

Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	Max Voltage	
Voltage	VDC	VDC	(±10%)	(±10%)	Power		
DC 3V	≤2.4	≤2.4	166.7/166.7mA	18/18Ω		DC 4.5V	
DC 5V	≤3.75	≤3.75	100/100mA	50/50Ω	500mW	DC 7.5V	
DC 12V	≤9.00	≤9.00	41.7/41.7mA	288/288Ω	5001110	DC 18V	
DC 24V	≤18.00	≤18.00	20.8/20.8mA	1152/1152Ω		DC 36V	

ORDERING INFORMATION

	FH44L	-1A	S	т	Е	-L1	R	-XXX	DC12V
1) Туре									
2 Contact arrangement:1									
16									
③ Construction(1):Nil=Flu	x proofed,S=	Plastic seal	ed						
④ Contact material:T=AgSnO ₂									
⑤ Load:Nil=Standard load,E=High load(20A)									
Coil type:L1=Single coil latching, L2=Double coils latching									
⑦ Operation polarity:Nil=standard polarity R=reversed polarity									
⑧ Customer special code:numbers or letters denote customer's requirements									
⑨ Coil specification:DC3/5/12/24V									

(1) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type; When used in unclean environment(contain H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Plastic sealed.



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.	Contact arrangement	Contact material	Approved ratings		
				16A/10A	250VAC	85 ℃
UL/C-UL	E475405	1A(NO)	AgSnO₂	20A	250VAC	85 ℃
		1B(NC)	Agono ₂	5A	120VAC(LED lamp)	85 ℃
				TV-8	125VAC	85 ℃
TUV	R50542458	1A(NO)	AgSnO ₂	16A/10A	250VAC	85 ℃
		1B(NC)		20A	250VAC	85 ℃
CQC	CQC20002266915	1A(NO)	AgSnO ₂	16A/10A	250VAC	85 ℃
	00020002200910			20A	250VAC	85 ℃

NOTICE

- With the consideration of shock risen from transit and relay mounting, relay's initial state might be changed ,please impose pulse voltage to reset the relay before using(rated coil voltage, impulse width≥5 times operation time.
- 2 In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;
- ③ In order to maintain the "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time. Do not energize the voltage to "set" coil and "reset" coil simultaneously.
- ④ The specification is for reference only.Specifications subject to change without notice.