FH47L

Features

- 1 sets of 20A switching capability, 2 sets of 10A switching capability
- The contact on and off can be controlled by the hand control switch
- With manual operation and position indicator
- UL insulation system:Class F
- Environment-friendly product (RoHS compliant)
- Outline Dimensions:(37.7×13×25)mm



■ CHARACTERISTICS

Specifications	Item					
Contact Data	Contact arrangement		1B	2C		
	Contact resistance(initial)		≤50mΩ(6VDC 1A)			
	Contact material		AgSnO ₂			
Rated value	Rated load		20A 250VAC	8A 250VAC		
	(Resistance load)		20A 250VAC			
	Max.switching voltage		277VAC	250VAC		
Nated value	Max.switching current		20A	10A		
	Max.switching capacity		5000VA	2500VA		
	Min.allowing load		5VDC 100mA			
	Insulation resistance(initial)		1000MΩ(500VDC)			
	Dielectric	Between open contacts	1000VAC,1min			
Electrical	strength	Between contact sets	1	2000VAC,1min		
performance	(initial)	Between coil&contacts				
	Set time		≤10ms			
	Reset time		≤10ms			
Mechanical	Shock	Functional	98m/s ² (10G)			
performance	resistance	Destructive	980m/s ² (100G)			
periormanee	Vibration resistance		10Hz~55Hz 1.5mm DA			
	Mechanical		1×10 ⁶ ops			
	Electrical(Room temperature)		20A 250VAC 3×10 ⁴ ops(ON/OFF=1s/9s)	8A 250VAC		
Endurance			16A 265VAC 3×10 ⁴ ops(ON/OFF=1s/9s)	3×10 ⁴ ops(ON/OFF=1s/9s)		
Endurance			10A 440VAC 3×10 ⁴ ops(ON/OFF=1s/9s)			
			5A 440VAC cosφ=0.4			
			3×10 ⁴ ops(ON/OFF=1s/9s)			
Operate	Ambient temperature		-25℃~70℃			
condition	Humidity		5% to 90%			
Termination			PCB			
Unit weight			Approx.25g			
Construction			Plastic sealed,Flux proofed			

■ COIL DATA(23°C)

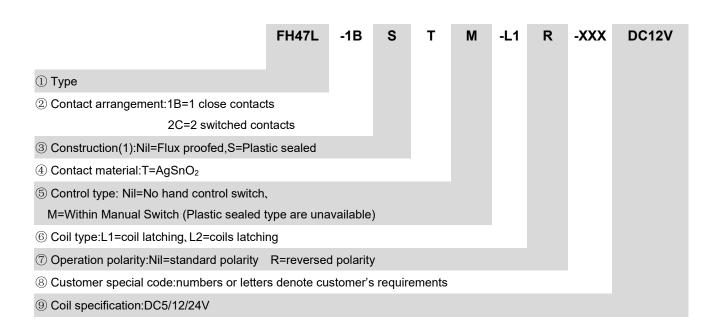
Single coil latching

Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	Max Voltage
Voltage	VDC	VDC	(±10%)	(±10%)	Power	
DC 5V	≤3.75	≤3.75	150mA	33.3Ω		DC 7.5V
DC 12V	≤9.00	≤9.00	62.5mA	192Ω	750mW	DC 18V
DC 24V	≤18.00	≤18.00	31.25mA	768Ω		DC 36V

Double coils latching

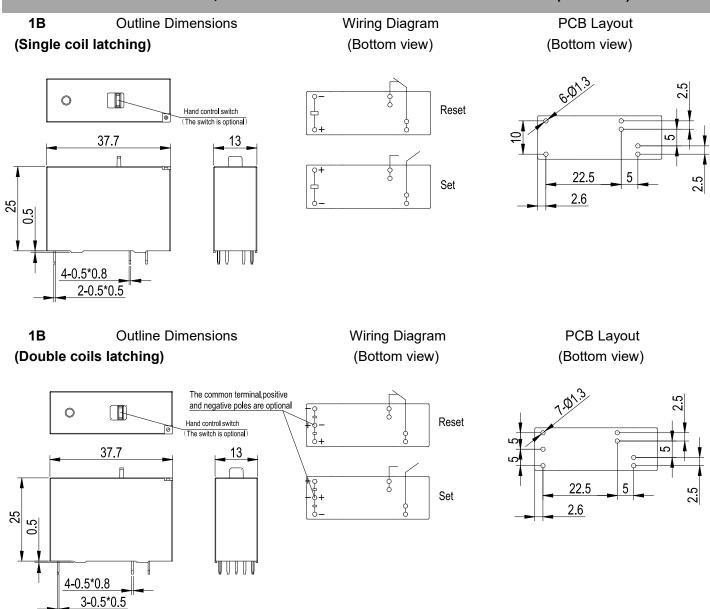
Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	Max Voltage
Voltage	VDC	VDC	(±10%)	(±10%)	Power	wax voitage
DC 5V	≤3.75	≤3.75	300/300mA	16.7/16.7Ω		DC 7.5V
DC 12V	≤9.00	≤9.00	125/125mA	96/96Ω	1500mW	DC 18V
DC 24V	≤18.00	≤18.00	62.5/62.5mA	384/384Ω		DC 36V

ORDERING INFORMATION

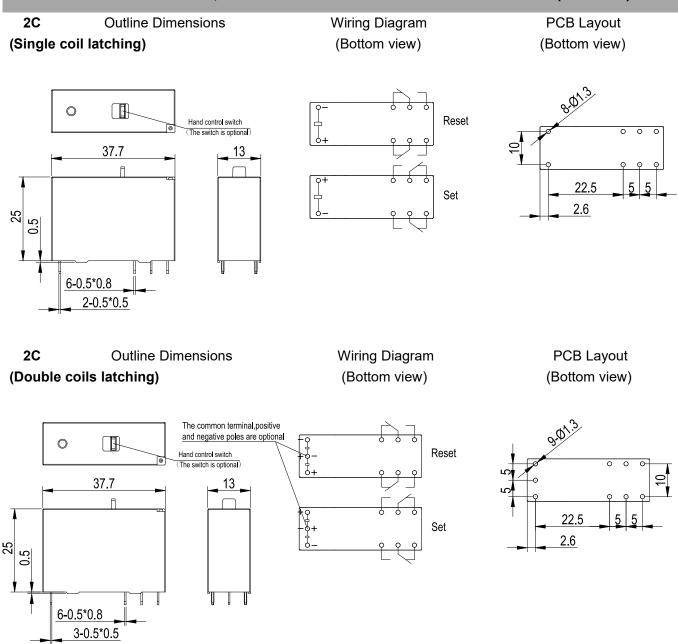


(1) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Plastic sealed.

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



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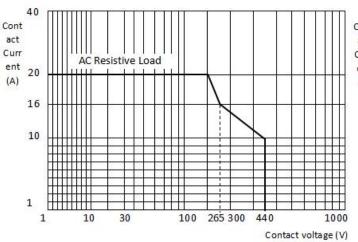
Remark: (1) In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension>1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.

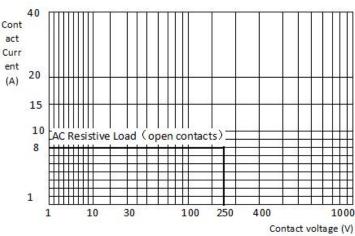
(2) The tolerance without indicating for PCB layout is always ±0.1mm.

PERFORMANCE CURVES

1B-MAXIMUM SWITCHING POWER

2C-MAXIMUM SWITCHING POWER





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.