Features

- 12A switching capability
- Single coil and double coils are all available
- Small size, the height of the product is only 12mm
- UL insulation system:Class F
- Environmental friendly product(RoHS compliant)
- Outline Dimensions:(20.0×10.0×11.5)mm
- Main application: Home appliance, Smart home



CHARACTERISTICS

Specifications	Item						
Contact Data	Contact arrangement		1A				
	Contact resistance		≤50mΩ(6VDC 1A)				
	Contact material		AgSnO ₂				
Rated value	Rated load(Resistance load)		10A 250VAC				
	Max.switching voltage		277VAC				
	Max.switching current		12A				
	Max.switching capacity		3000VA				
	Min.allowing load		5VDC 100mA				
	Insulation re	Insulation resistance(initial)		1000MΩ(500VDC)			
	Dielectric	Between open contacts	1000VAC,1min				
Electrical performance	strength (initial))	Between coil&contacts	3000\	/AC,1min			
	Set time		≤10ms				
	Reset time		≤10ms				
Mechanical	Shock	Functional	98m/s	s²(10g)			
performance	resistance	Destructive	980m	/s²(100g)			
periormance	Vibration resistance		10Hz~55Hz 1.5mm DA				
	Mechanical		1×10 ⁶ ops				
Endurance	Electrical(Room temperature)		8A	250VAC	1×10 ⁵ ops(ON/OFF=1s/9s,	Resistive Load)	
			10A	250VAC	5×10 ⁴ ops(ON/OFF=1s/9s,	Resistive Load)	
			12A	250VAC	3×10 ⁴ ops(ON/OFF=1s/9s,	Resistive Load)	
Operate	Ambient temperature		-40℃~85℃				
condition	Humidity		5% to 85%				
Termination			PCB				
Unit weight			Approx.4.5g				
Construction			Plastic sealed, Flux proofed				

COIL DATA(23℃)

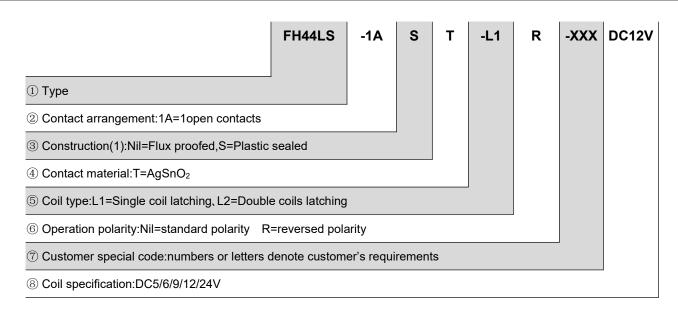
■ Single coil latching

Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	May Valtage	
Voltage	VDC	VDC (±10%)		(±10%)	Power	Max Voltage	
DC 3V	≤2.40	≤2.40	66.7mA	45Ω		DC 4.5V	
DC 5V	≤3.75	≤3.75	40mA	125Ω		DC 7.5V	
DC 9V	≤6.75	≤6.75	22.2mA	405Ω	0.2W	DC 13.5V	
DC 12V	≤9.00	≤9.00	16.7mA	720Ω		DC 18V	
DC 24V	≤18.0	≤18.0	8.33mA	2880Ω		DC 36V	

Double coils latching

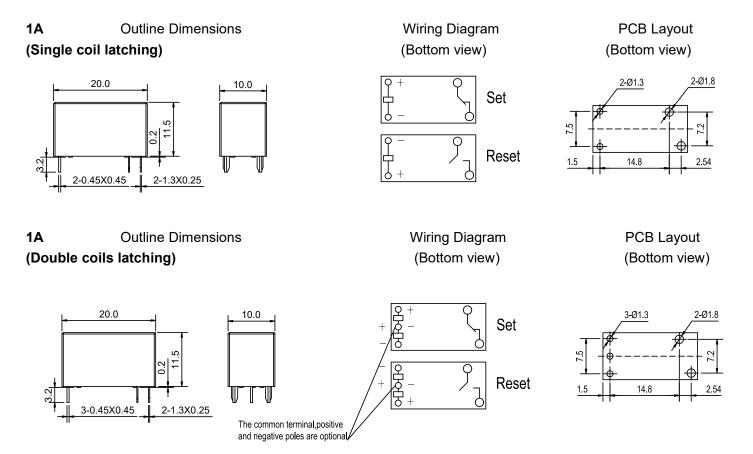
Nominal	Set Voltage	Set Voltage Reset Voltage		Coil Resistance	Nominal	MaxXXaltaga	
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage	
DC 3V	≤2.40	≤2.40	133.3/133.3mA	22.5/22.5Ω		DC 4.5V	
DC 5V	≤3.75	≤3.75	80/80mA	62.5/62.5Ω		DC 7.5V	
DC 9V	≤6.75	≤6.75	44.4/44.4mA	202.5/202.5Ω	0.4W	DC 13.5V	
DC 12V	≤9.00	≤9.00	33.3/33.3mA	360/360Ω		DC 18V	
DC 24V	≤18.0	≤18.0	16.7/16.7mA	1440/1440Ω		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)



 $Remark: (1) In \ case \ of \ no \ tolerance \ shown \ in \ outline \ dimension: outline \ dimension \le 1 mm, tolerance \ should \ be \pm 0.2 mm; outline \ dimension \ge 5 mm, tolerance \ should \ be \pm 0.5 mm.$

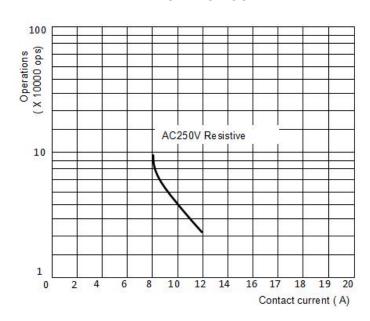
(2) The tolerance without indicating for PCB layout is always ±0.1mm.

PERFORMANCE CURVES

MAXIMUM SWITCHING POWER

Contact Current (A) AC250V Resistive Load 12 10 277

ENDURANCE CURVE



NOTICE

- ① 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.
- The specification is for reference only. Specifications subject to change without notice.