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:(20.0×10.0×11.8)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		3000\	/A			
	Min.allowing load		5VDC	100mA			
Electrical performance	Insulation resistance(initial)		10001	MΩ(500VDC)			
	Dielectric	Between open contacts	1000\	/AC,1min			
	strength (initial))	Between coil&contacts	3000VAC,1min				
	Set time	Set time		≤10ms			
	Reset time		≤10ms				
Mashaniaal	Shock	Functional	98m/s	s²(10g)			
Mechanical 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)	
Endurance			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℃)

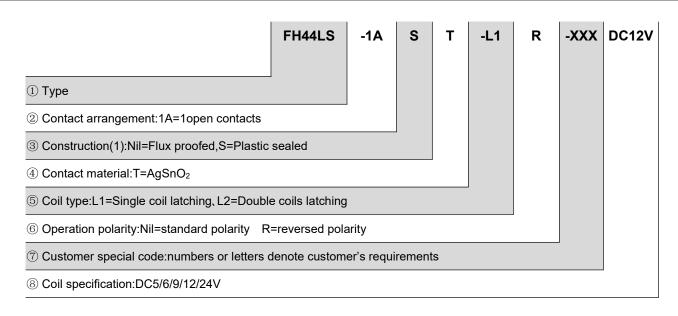
■ Single coil latching

Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	May Valtaga	
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

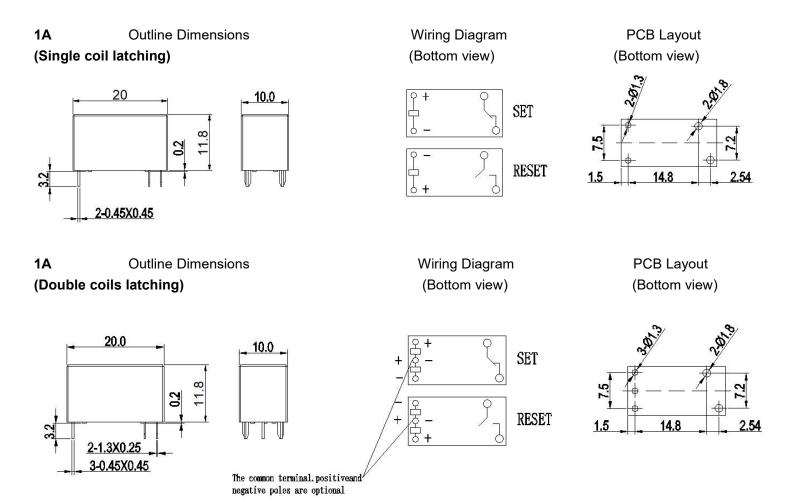
Nominal	Set Voltage	Reset Voltage	Rated Current	Coil Resistance	Nominal	May Valtage
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage
DC 3V	≤2.40	≤2.40	133.3/133.3mA	22.5/22.5Ω		DC 4.5V
DC 5V	≤3.75	≤3.75	80/80mA	62.5/62.5Ω		DC 7.5V
DC 9V	≤6.75	≤6.75	44.4/44.4mA	202.5/202.5Ω	0.4W	DC 13.5V
DC 12V	≤9.00	≤9.00	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≤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

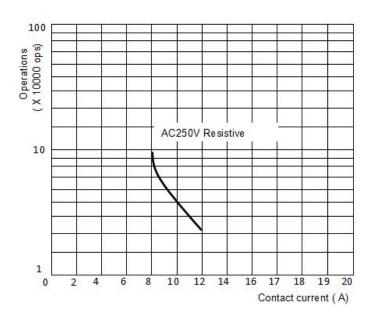
Approval	File No.	Contact arrangement	Contact material	Approved ratings		
UL/C-UL	E475405	1A	AgSnO2	Standard 10A 277/250VAC 16A 277/250VAC TV-5 125VAC	5×104(ON/OFF=1s/9s) 2×104(ON/OFF=1s/9s) 2.5×104(ON/OFF=1s/9s)	85℃ 85℃ 85℃
TUV	R50654293	1A	AgSnO2	Standard 10A 277/250VAC 16A 277/250VAC	5×104(ON/OFF=1s/9s) 2×104(ON/OFF=1s/9s)	85℃ 85℃
CQC	CQC24002455512	1A	AgSnO2	Standard 10A 277/250VAC 16A 277/250VAC	5×104(ON/OFF=1s/9s) 2×104(ON/OFF=1s/9s)	85℃ 85℃

PERFORMANCE CURVES

MAXIMUM SWITCHING POWER

Contact Current (A) AC250V Resistive Load 12 10

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.