

## NingBo Songle Relay Co.,LTD.

### **SMIH**



#### TUV File No.R9933789

- 1. SPST through DPDT contact arrangements.
- 2. 5KV dielectric, coil to contact.
- 3. Standard type and plastic sealed type available.
- 4. High sensitivity type for low coil consumption is available.
- 5. For electrical device in control system, e.g heating controllers. servo motors, solenoid valves, lifting magnets etc.

#### **♦ COLL SPECIFICATION [at25degrees ]**

Coil	Nominal	Nominal	Coil	Power	Pull-in	Drop-out	Max-Allow
Sensitivity	Voltage	Current	Resistance	Consumption	Voltage	Voltage	Able
	(VDC)	(mA)	(ohm±10%)	(w)	(VDC)	(VDC)	Voltage(VDC)
	3	120	17				
	5	71	47				
High	6	60	68	abt 0.54w			
Senstivity	9	40	155		75%Max	5%MIn	130%
	12	30	270				
	18	20	600				
	24	15	1100				
	3	150	12.5				
	5	89	36				
Standard	6	75	50				
Sensitivity	9	50	115	Abt 0.72w	75%Max	5%MIn	130%
	12	37.5	200				
	18	25	450				
	24	18.7	820				

#### **♦ CONTACT RATING**

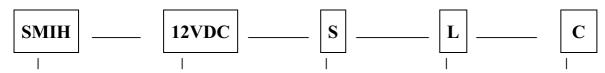
Contact Form	SPDT
Contact Capacity	16A 240VAC
Resistave Load(cos∅=1)	16A 125VAC
Inductiv Load(cos∅=0.4)	5A 120VAC
L/R=7msec	5A 24VDC
Contact Material	AgCdo

♦NOTE: Contact rating 1:16A/240VAC

## **♦PERFORMANCE**[at initial value]

Contact Rsistance	100 mhom Max		
Operate time	15 msec. Max		
Release time	10 msec. Max		
Dielectric Strength			
Between coil & contact	5000VAC 50/60Hz(1min)		
Between contacts	1000VAC 50/60Hz(1min)		
Insulaton Resistance	100M ohm Min(500VDC)		
Max. ON/OFF Switching			
Mechanically	300 ops/min		
Electrically	30 ops/min		
Operating Ambient temp	-30 to 70degrees		
Operating Humidity	45 to 85% RH		
Vibration			
Damage Limits	10 to 55Hz Double Amp.1.5mm		
Operating Extremes	10 to 55Hz Double Amp.1.5.mm		
Shock			
Damage Limits	100G		
Operating Extremes	10G		
Life Expectancy			
Mechanically	1,000,000 ops. Min(no load)		
Electrically	100,000 ops. Min(at rated coil volt.)		
Weight	abt.13grs		

## ♦ ORDER INFORMATION



Model of relay	Nminal coil voltage	Structure	Coil sensitivity	Contact form
		S:Sealed type	L:0.54w	A: 1 form A
SMIH	03,05,06,09,12,24VDC	F:Flux free type	D:0.72w	B: 1 form B
				C: 1 form C

# ♦OUT LINE DIMENSIONS [UNIT:mm] PCB LAYOUT[UNIT:mm] WIRING DIAGRAM

