



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

◆ CONTACT RATING

Contact Form	SPDT
Contact Capacity	16A 240VAC
Resistave Load(cos ϕ =1)	16A 125VAC
Inductiv Load(cos ϕ =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

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

SONGLE RELAY

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

