PC Board Relay SD

ORDERING CODE

SD 12VDC S Z

① ② ③ ④

① Relay Model
② Coil Nominal Voltage 3, 5, 6, 9, 12, 18, 24, 48VDC
③ Sealed
④ Contact Form H: Form A, Z: Form C

APPROVED STANDARDS

Model	Coiling rating	Safety Standard	Contact rating
SD	3 to 48VDC	TÜV	1A: 5A 240VAC/15A 12VDC 1C: 5A 240VAC
		cULus	1A: 10A 240VAC 12A 120VAC/24VDC 1C: 7A 240VAC/10A 120VAC/24VDC

COIL DATA

Nominal Voltage(VDC)	3	5	6	9	12	18	24	48	Coil Power
Coil Resistance(Ω)	25	69	100	225	400	900	1600	6400	0.36W
Rated Current(mA)	120	71.4	60	40	30	20	15	7.5	
Max Operate Voltage(VDC)	2.25	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage(VDC)	0.3	0.5	0.6	0.9	1.2	1.8	2.4	4.8	
Coil Resistance(Ω)	20	56	80	180	320	720	1280	5120	0.45W
Rated Current(mA)	150	90	75	50	37.5	25	18.7	9	
Max Operate Voltage(VDC)	2.25	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage(VDC)	0.3	0.5	0.6	0.9	1.2	1.8	2.4	4.8	
Max ApplicableVoltage	70℃, 130%, 23℃, 170%								

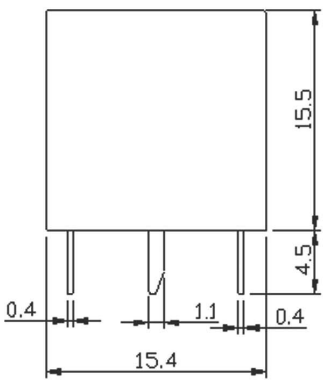
CONTACT DATA

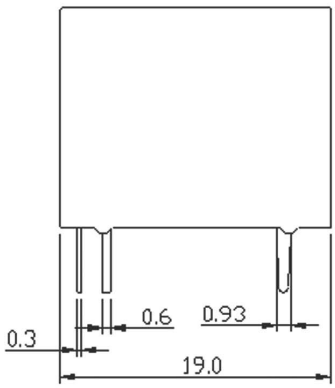
Contact Form	1H/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS⊙1)
Contact Ratings	1A:10A 240VAC 1C:7A 240VAC 15A 12VDC 10A 120VAC/24VDC 12A 120VAC/24VDC 5A 240VAC
Minimum load	100mA 5VDC
Max Switching Voltage	250VAC/30VDC
Max Switching Current	15A
Max Switching Power	2770VA/240W
Contact Resistance	100mΩMax at 6VDC 1A
Life Expectancy	Electrical : 100,000 Operations(at30 Operations/minute) Mechanical : 10,000,000 Operations(at300 Operations/minute)

GENERAL DATA

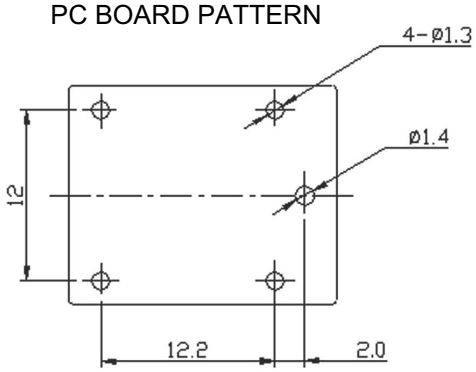
Insulation Resistance		100MΩMin at 500VDC
Dielectric Strength Between Open Contacts		750VAC(50/60Hz for one minute)
Between Contacts and coil		1500VAC(50/60Hz for one minute)
Operate Time		10ms
Release Time		5ms
Temperature Range		-40℃to+85℃
Shock Resistance	Operating Extremes	10G
	Damage Limits	100G
Vibration Resistance		10-55Hz, 1.5mm
Max. switching frequency	Mechanical	18,000operations/hr
	Electrical	1,800operations/hr
Humidity		40-85%
Weight		Approx 10g
Safety Standard		UL cUL TÜV

OVERALL AND MOUNTING DIMENSIONS

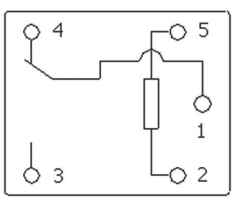




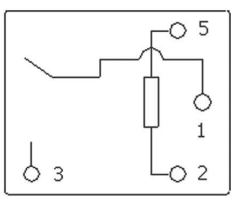
PC BOARD PATTERN



SCHEMATIC(Bottom View)



Form C



Form A