



HANDOUK

HT1

■ FEATURES

- High switching capacity
1A : 10A 250VAC / 8A 30VDC
2A, 1AB : 8A 250VAC / 30VDC
- High sensitivity : 200Mw
- 4kV dielectric strength (Between coil & contacts)
- Single side stable and Latching types available
- 1A, 2A, 1AB contact arrangement



■ CONTACTS

Contact Form	1A	2A	1AB
Initial Contact Resistance	30mΩ (at 24VDC 1A)		
Contact Material	AgNi. AgNi + Au		
Contact Rating (Resistance)	10A, 250VAC 8A, 30VDC	8A, 250VAC 8A, 30VDC	
Max. Switching Power	2500VA 240W	2,000VA 240W	
Max. Switching Voltage	277VAC		
Max. Switching Current	10A	8A	
Electrical Life	1×10 ⁵ ops(2Form A:3×10 ⁴ ops)		
Mechanical Life	5×10 ⁷ ops		

■ SPECIFICATION

Insulation Resistance		1000MΩ 500VDC
Dielectric Strength between	coil & contacts (1min)	1A, 1A+1B: 4,000VAC 2A : 2,000VAC
	Open contacts	1,000VAC, 1 min
Pulse width of coil		20ms(Recom. 100ms to 200ms)
Operate Time		Max. 10ms
Release Time		Max. 10ms
Max. operating frequency (Under rated load)		20cycles / min.
Temperature rise		50K Max.(at nomi. Volt.)
Ambient Temperature		-40 ~ +70 °C
Vibration Resistance		1.5 mm DA 10~55Hz
Shock Resistance		100 m/s ²
Terminals		PCB
Weight		Approx. 6g
Construction		Sealed IP67 & Flux proof
Size		20.×15×10.2

■ COIL DATA

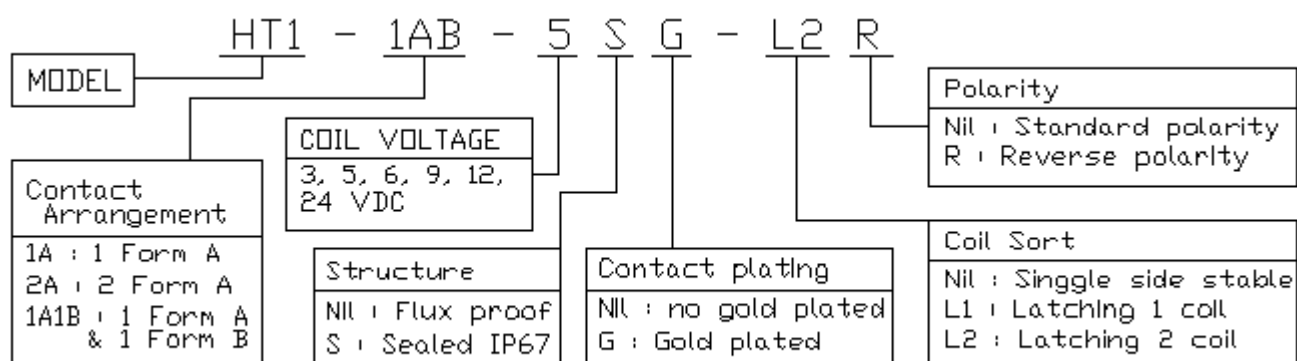
at 23°C

Nominal Voltage VDC		Coil resistance Ω(±10%)	Pick-up (set/reset) Voltage VDC(max)	Drop-out Voltage VDC(min)	Coil Power
1A, 1A + 1B single side stable 1 coil latching	3	45	2.1	0.3	200mW
	5	125	3.5	0.5	
	6	180	4.2	0.6	
	9	405	6.3	0.9	
	12	720	8.4	1.2	
	24	2880	16.8	2.4	

at 23°C

Nominal Voltage VDC		Coil resistance $\Omega(\pm 10\%)$	Pick-up (set/reset) Voltage VDC(max)	Drop-out Voltage VDC(min)	Coil Power
2 Form A single side stable	3	32.1	2.1	0.3	280mW
	5	89.3	3.5	0.5	
	6	129	4.2	0.6	
	9	289	6.3	0.9	
	12	514	8.4	1.2	
	24	2056	16.8	2.4	
2 coil latching	3	32.1+32.1	2.1	-	280mW
	5	89.3+89.3	3.5	-	
	6	129+129	4.2	-	
	9	289+289	6.3	-	
	12	514+514	8.4	-	
	24	2056+2056	16.8	-	

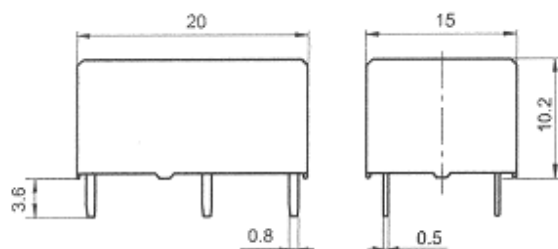
■ ORDER DESIGNATION



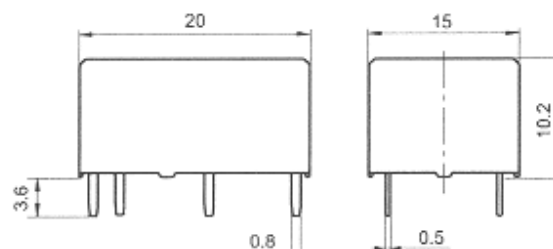
■ OUTLINE DIMENSIONS, PC BOARD LAYOUT AND WIRING DIAGRAM

Outline Dimensions

Single side stable & 1 coil latching



2 coils latching



PCB Layout (Bottom view)

Single side stable & 1 coil latching

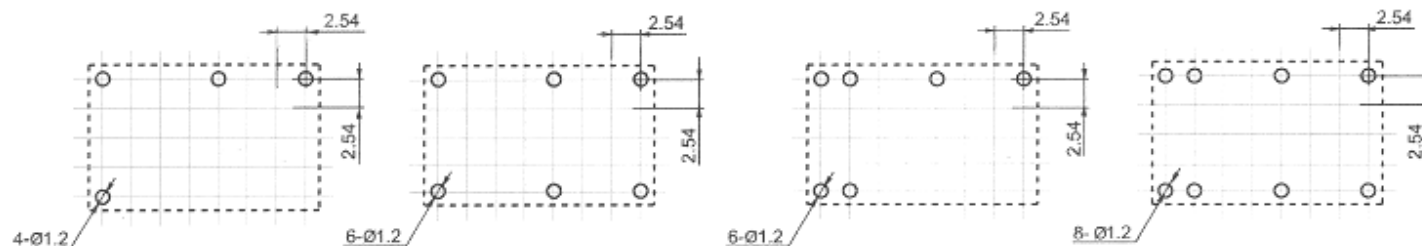
2 coils latching

1 Form A

2 Form A, 1A + 1B

1 Form A

2 Form A, 1A + 1B



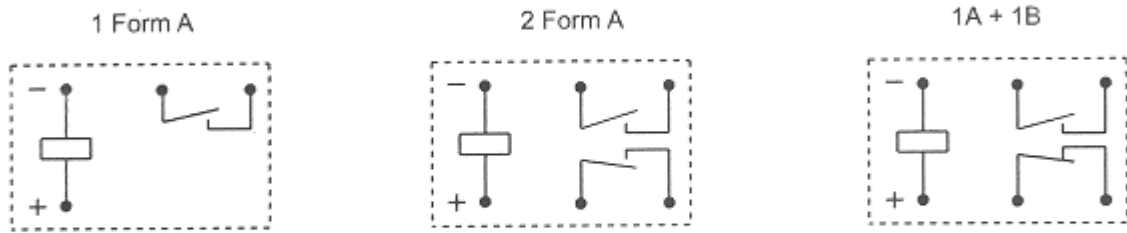
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

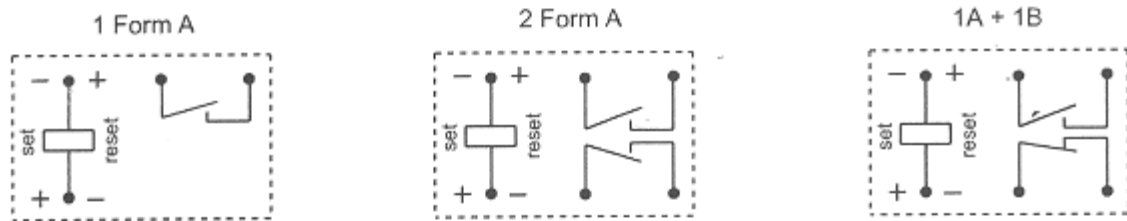
3) The width of the gridding is 2.54mm .

Wiring Diagram (Bottom view)

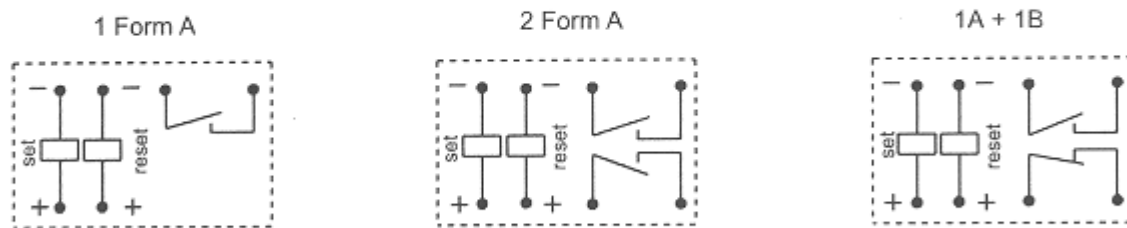
Single side stable (Deenergized condition)



1 coil latching (Reset condition)



2 coils latching (Reset condition)



Remark: The coil polarity of Reverse polarity and Standard polarity is opposite.

Notice

1. Relay is on the "reset" status when being released from stock, with the condition of shock risen from transit and relay mounting, relay would be changed to "set" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status on request.
2. In order to maintain "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 voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than one min.) should be avoid.
3. In order to avoid changing operate voltage, products should not be kept in strong magnetic field during transportation, storage and application.