

TNA SERIES

ORDER CODE

TNA-1C-12-10-L

□: 0.72W
L: 0.54W

05: 5A (2c)
10: 10A (1c)
16: 16A (1c)

COIL VOLTAGE

1A: 1a
1B: 1b
1C: 1c
2A: 2a
2C: 2c

TYPE

03: DC 3V
05: DC 5V
06: DC 6V
09: DC 9V
12: DC 12V
24: DC 24V
48: DC 48V



Main Features:

- UL & TUV safety approval.
- Plastic sealed type is available for washing procedure.
- 2 pole 5A, 1 pole 10A & 16A.
- Dielectric strength: 5,000VAC.

COIL RATING (at 20°C)

NOMINAL VOLTAGE (VDC)	COIL RESISTANCE (Ω)($\pm 10\%$)	POWER CONSUMPT -ION(W)	NOMINAL CURRENT (mA)($\pm 10\%$)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
3V	12.5 Ω	0.72W	240.0mA	70% MAX.	5% MIN.	110%
5V	36.0 Ω		138.9mA			
6V	50.0 Ω		120.0mA			
9V	115.0 Ω		78.3mA			
12V	200.0 Ω		60.0mA			
24V	820.0 Ω		29.2mA			
48V	3300.0 Ω		14.5mA			

	NOMINAL VOLTAGE (VDC)	COIL RESISTANCE (Ω)($\pm 10\%$)	POWER CONSUMPT -ION(W)	NOMINAL CURRENT (mA)($\pm 10\%$)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
L	3V	17 Ω	0.54W	176.4mA	80% MAX.	5% MIN.	110%
	5V	50 Ω		100.0mA			
	6V	68 Ω		88.2mA			
	9V	155 Ω		58.1mA			
	12V	270 Ω		44.4mA			
	24V	1100 Ω		21.8mA			
	48V	4400 Ω		10.9mA			

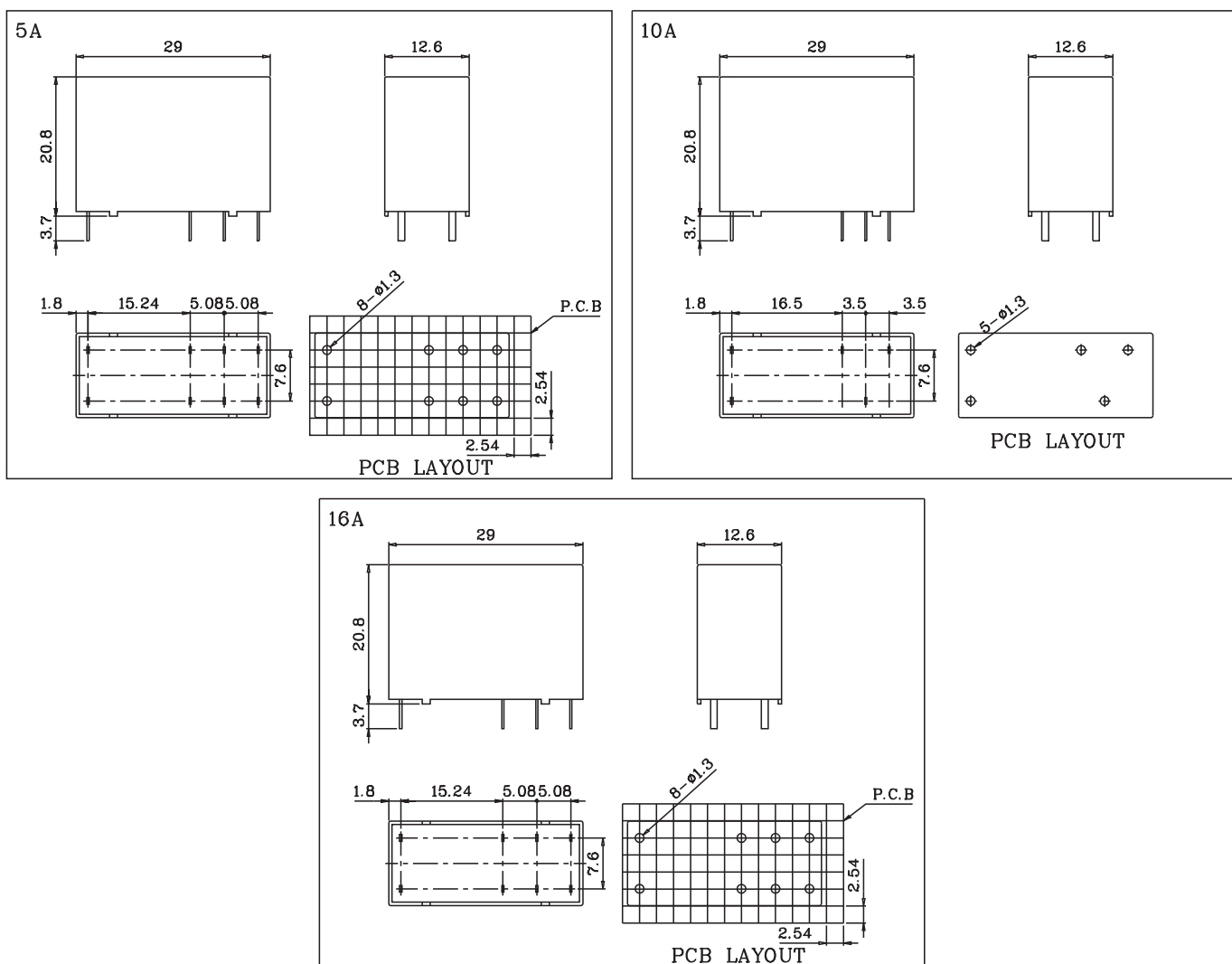
PERFORMANCE (at initial value)

Item \ Type	5A(2c)	10A(1c)	16A(1c)
Contact Resistance	100m Ω Max.(initial value)		
Operate Time	15msec Max.		
Release Time	8msec Max.		
Dielectric Strength between coil & contact between contact	AC5000V (1min) AC1000V (1min)		
Insulation Resistance	100M Ω Min.(DC500V)		
Operating Ambient Temperature	-30°C ~ +70°C		
Humidity	35 to 85% RH		
Vibration Resistance	10G (10~55Hz)(Dual amplitude:1.5mm)		
Shock Resistance	10G		
Life Expectancy Mechanically Electrically	10,000,000 ops. Min.(1800 ops./h) 100,000 ops. Min.(1200 ops./h)		
Weight	13g(about)		

CONTACT RATING

Item \ Type	5A(2c)	10A(1c)	16A(1c)
Rated Carrying Current	AC250V 5A DC30V 5A	AC250V 10A DC30V 10A	AC250V 16A DC30V 16A
Max. Allowable Current	5A	10A	16A
Max. Allowable Voltage	AC 250V DC 150V		
Max. Current (continual)	5A	10A	16A
Max. Allowable Power	1250VA,120W	2500VA,300W	3840VA,480W
Contact Material	Ag alloy		

DIMENSIONS(Unit: mm)



WIRING DIAGRAMS(Bottom View)

