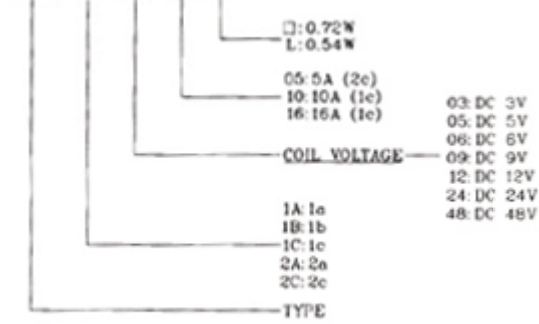


TNA SERIES

ORDER CODE

TNA-1C-12-10-L



Main Features:

- UL 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)(+/-10%) | Power Consumpt -10N(W) | Nominal Current (mA) (+/-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)(+/-10%) | Power Consumpt -10N(W) | Nominal Current (mA) (+/-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 | 2700 Ω | | 44.4mA | | | |
| | 24V | 1100 Ω | | 21.8mA | | | |
| | 48V | 4400.0 Ω | | 10.9mA | | | |

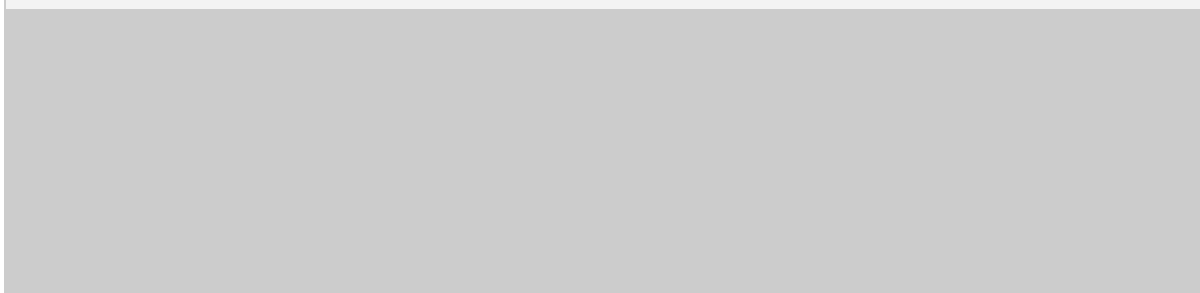
PERFORMANCE (at initial value)

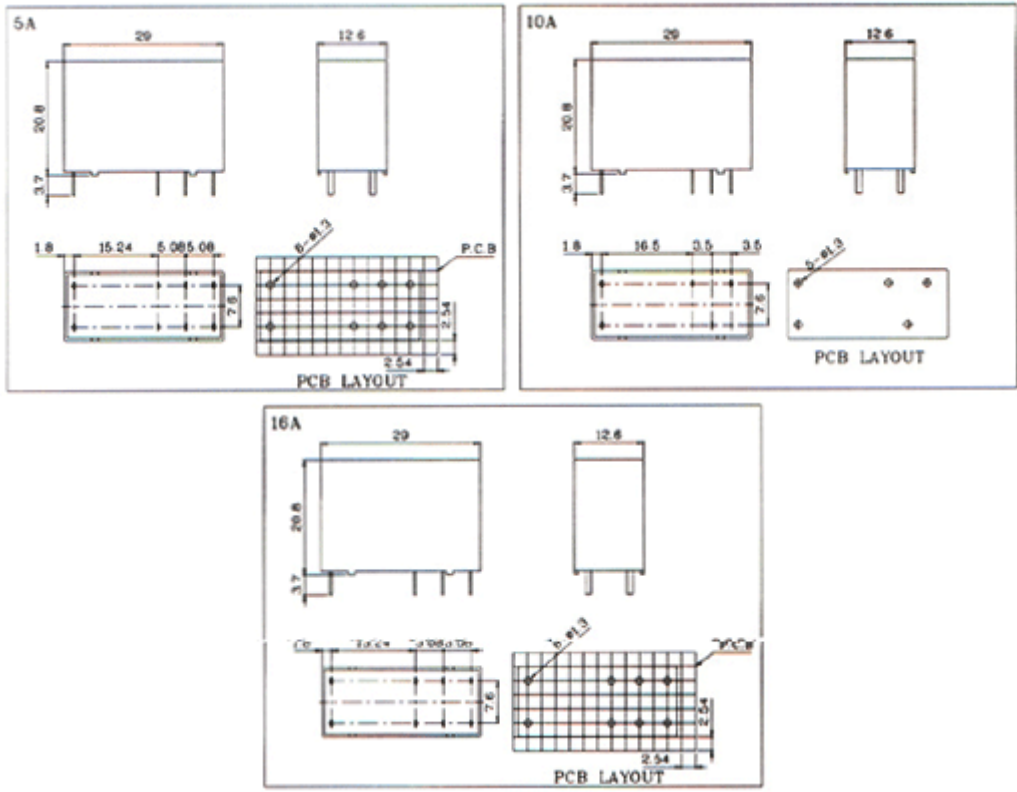
| Item \ Type | 5A (2c) | 10A (1c) | 16A (1c) |
|--|--|----------|----------|
| Contact Resistance | 100mΩ Max (initial value) | | |
| Operate Time | 15m sec Max. | | |
| Release Time | 8m sec Max. | | |
| Dielectric Strength between coil & contact between contact | Ac5000V (1min.) Ac1000V (1min.) | | |
| Insulation Resistance | 100MΩ Min. (DC500V) | | |
| Operating Ambient Temperature | -30°C ~ +70°C | | |
| Humidity | 35 to 85% RH | | |
| Vibration Resistance | 10G (10~50Hz) (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 | AC 250V 5A DC30V 5A | AC 250V 10A DC30V 10A | AC 250V 16A DC30V 16A |
| Max. Allowable Current | 5A | 10A | 16A |
| Max. Allowable Voltage | AC 250V DC 150V | | |
| Max Current (continual) | 5A | 10A | 16A |
| Min. Load | 1250 VA, 120W | 2500 VA, 300W | 3840 VA, 480W |
| Contact Material | Ag Alloy | | |

DIMENSIONS (Unit: mm)





WIRING DIAGRAMS (Bottom View)

