

Motor Performance Parameters:

- 1.Motor Type:Coreless Brushless Motor
- 2.Operating Voltage:12V
- 3.No-load Speed:25000±10%RPM
- 4.No-load Current: 0.2A
- 5.Load Speed:18000±10%RPM
- 6.Load Torque: 15g.cm
- 7.Load Current:≤0.8A
- 8.Stall Torque: 100g.cm
- 9.Pole Pairs:2 Pole Pairs
- 10.Operating Temperature:-40-85°C
- 11.Weight: ≤30g
- 12.Noise:≤45DB
- 13.Motor Maximum Efficiency:75%

Gearmotor Performance Parameters:

- 1.Operating Voltage:12V
- 2.No-load Speed:250±10%RPM
- 3.No-load Current:≤0.3A
- 4.Rated Speed:180±10%RPM
- 5.Rated Torque:≥0.08NM
- 6.Rated Current:≤1A
- 7.Stall Torque: ≥0.5 Nm
- 8.Operating Temperature:-40-80°C
- 9.Reduction Ratio:1:100
- 10.Noise:≤55DB
- 11.Gearbox Material:Pure Steel (Machined)

Coreless Brushless Motor

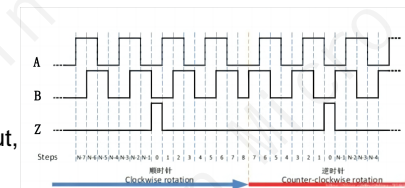
Wiring Sequence: PIN1-3

- pin1 - U (White)
- pin2 - V (Yellow)
- pin3 - W (Blue)

Encoder Wiring Sequence: PIN1-5

- pin1 - GND (Black)
- pin2 - VCC (Red)
- pin3 - A+ (Single-ended) (Yellow)
- pin4 - B+ (Single-ended) (Green)
- pin5 - Z+ (Single-ended) (Blue)

Note: Magnetic encoder, digital output, 3 channels, 1024 PPR



设计		第一视觉画法
审核		
批准		未注线性与角度尺寸公差： GB/T1804-m eqv ISO 2768-1:m
日期	2025.11.15	

13mm Planetary Gearbox + 13mm Coreless Brushless Motor + Encoder (Product Type)
TSL-PG13K100-KW1317+MA1024 (Inverted Module) (Product Model)
Tsinglin Micro Motors Limited