



Motor Wiring Sequence:

PIN1-2
 Pin 1: VCC, Red Wire
 (Positive Pole)
 Pin 2: GND, Blue Wire
 (Negative Pole)

T-type Lead Screw Gear Motor Parameters

Lead Screw Material: 304 Stainless Steel
 Nut Material: Brass
 Diameter: 3.5 mm
 Number of Thread Starts: 2 Starts
 Pitch: 1.2 mm
 Lead: 2.4 mm
 Hand of Thread: Right-hand
 Total Stroke: 50 mm
 Lead Screw Nut Output Thrust: 30 N
 No-load Output Speed: $3 \pm 10\%$ mm/s
 Rated Output Speed: $2.5 \pm 10\%$ mm/s

Motor Performance Parameters

Motor Type: Coreless Brushed DC Motor
 Operating Voltage: 7.4 V
 No-load Speed: $20000 \pm 10\%$ RPM
 No-load Current: ≤ 0.08 A
 Load Speed: $15000 \pm 10\%$ RPM
 Load Torque: ≥ 5 g·cm
 Load Current: ≤ 0.15 A
 Pole Pairs: 1 Pair of Poles
 Operating Temperature: $-40 \sim 125$ °C
 Noise Level: ≤ 40 dB
 Maximum Motor Efficiency: 60%

Planetary Gear Motor Performance Parameters

Operating Voltage: 7.4 V
 No-load Speed: $80 \pm 10\%$ RPM
 No-load Current: ≤ 0.1 A
 Load Speed: $60 \pm 10\%$ RPM
 Load Torque: ≥ 500 g·cm
 Load Current: ≤ 0.2 A
 Operating Temperature: $-40 \sim 125$ °C
 Gear Ratio: 1:256
 Noise Level: ≤ 55 dB
 Gearbox Material: Solid Steel (Machined)

设计			8mm Planetary Gearbox + 8mm Coreless Brushed DC Motor + Lead Screw Nut Assembly (Motor Type)
审核			PG8K256-KS0816+SG35 (Motor Model)
批准		未注线性与角度尺寸公差： GB/T1804-m eqv ISO 2768-1:m	Tsinglin Micro Motors Limited
日期	2025.05.14		