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Name :	Nema 17 stepper motor
Model :	17HS4401S
Step Angle :	1,8 ° ± 0,09 °
Rated voltage:	DC 3. 6 V
Rated Current :	DC 1,5 A / Phase
Holding Torque:	≥ 420mN. M
Maximum no load Starling frequency :	≥ 1900 PPS
Weight :	255 g

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**3Pcs Usongshine Nema17 Stepper Motor 17HS4401S 1.5A Nema 17 42BYGH 17HS4401 4-Lead for 3D Printer XYZ CNC Laser Engraver**

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**Shaft Diameter: With XH2.54**

With Dupont

With XH2.54

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Ships From:CHINA Shaft Diameter:With XH2.54

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Specifications

Plug Type	XH-2.54	Cable Length	1M
Color	black	Gear Ratio	5:1
Current / Phase	1.5A	Holding Torque	≥420mN.m
Step Angle(degrees)	1.8°±0.09°	Phase	2
Model Number	17HS4401S	Type	HYBRID
Certification	ce,ROHS	Brand Name	singasong
Origin	Mainland China	Certification	CE

Description

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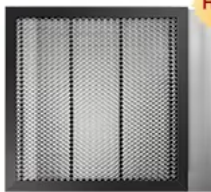
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2/10



## product features

### 1. The rotation speed is uniform and no step is lost.

The PCB board is strengthened in the motor, and the unique stator technology is adopted, Ensure that the stator teeth of the motor are ground uniformly and cleanly, and the internal control accuracy is high. The speed is stable and accurate without losing step during the working process.

### 2. Stable structure, no jamming

The surface of the motor rotor is coated with imported epoxy resin, which seals the rotor as a whole and is cured at high temperature. After the rotor is processed by abrasion, machining residues such as iron pins are not easy to appear in the tooth grooves. The motor is stable even after long-term use. There is no risk of jamming.

### 3. Stable speed and low noise

The motor has high overall stability, uniform rotation speed and low noise through Kossel Prusa I3, Ultimaker, corexy and other motors. Users can purchase with confidence.

Insulation class: B

Insulation resistance:  $\geq 100 \text{ M}\Omega$  (DC 500V)

Maximum starting rate:  $\geq 1500 \text{ PPS}$

Positioning Torque: 15 mN.m REF.

Phase Inductance:  $3.7 * (1 \pm 20\%) \text{ mH/Phase}$

Rated Current: DC 1.5A/Phase

Step Angle(degrees):  $1.8^\circ \pm 0.09^\circ$

Electrical strength: AC600V/1mA/1S

Maximum slewing rate:  $\geq 1900 \text{ PPS}$

Rotating direction: A-C B-D Clockwise

Holding Torque:  $\geq 420 \text{ mN.m}$

Phase Resistance(20°C):  $2.4 * (1 \pm 15\%) \Omega/\text{Phase}$

Rated Voltage: DC 3.6V

Phase: 2

Feature Specification

# 3D PRINTING PREFERRED

17HS4401/4401S stepper motor



Excellent workmanship



Stable performance



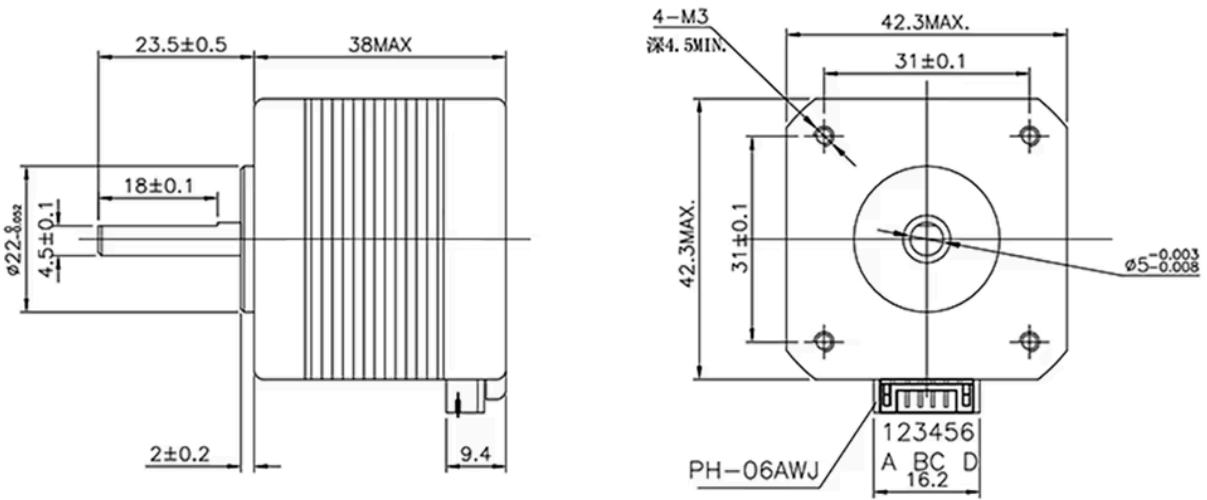
High precision



Quality Assurance

## PRODUCT PARAMETERS

CHARACTERISTIC	SPECIFICATION
Phase:	2
Rated voltage:	DC 3.6V
Rated current:	DC 1.5A / phase
Phase resistance (20°C):	2.4 x (1±15%)Ω /phase
Phase inductance (1KHz):	3.7 x (1±20%)mH /phase
Holding torque:	≥ 420mN.m
Positioning torque:	15 mN.m REF.
Turn (The shaft is extended to see) :	A - AB - B -Clockwise
Maximum no-load starting frequency:	≥1500 PPS
Maximum no-load operating frequency:	≥1900 PPS
Electrical strength:	AC600V/1mA/1S
Moment of inertia:	57.3 g.cm <sup>2</sup>
Step angle:	1.8° ±0.09°
Insulation resistance:	≥100 MΩ ( DC 500V )
Insulation class:	Class B
quality:	255 g REF.



# PRODUCT STRUCTURE



## Motor coil

The motor wire is made of pure copper enameled wire and advanced winding and wire-passing technology. The copper wire is evenly distributed, the temperature rise of the motor is lower, and the deformation and noise are not caused by long-term carrying.

## Silicon steel rotor

It adopts international silicon steel material bearing and is imported from German technology. The surface is coated with imported rotor rubber to prevent oxidation of silicon steel to reduce surface burrs after grinding. The torque of the motor in the line is larger, the output is more stable, the noise is lower, and the service life is longer.



# PRODUCT CHARACTERISTICS

## Part 1: Uniform speed, no loss of step

The PCB is reinforced in the motor, and a unique stator process is adopted to ensure that the stator teeth of the motor are evenly polished, the inner hole has high precision, and the rotation speed is stable and accurate during the working process.



## Part 2: Stable structure, no card machine

The surface of the rotor of the motor is coated with imported epoxy resin. The rotor is sealed as a whole and solidified by high temperature. After the rotor is finished in the outer circle, there is no need for machining residues such as iron pins in the tooth groove. The motor will not be stable for a long time. Risk of death.



## Part 2: Stable speed, low noise

The motor is highly stable by Kossel, Prusa I3, Ultimaker, corexy, etc. The motor has high stability, uniform speed and low noise.

