

NEMA 17 Stepper Motor with Toothed Pulley

This high-precision stepper motor is designed for accurate positioning and motion control. It features a compact design with a square flange and a toothed pulley for efficient power transmission.



Product Overview

High-Precision Stepper Motor

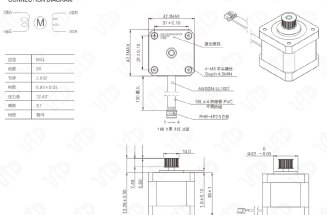
The VHSM42 is a high-precision stepper motor engineered for accurate motion control in demanding automation environments. Featuring a compact 42.3mm square flange design and a pre-installed toothed pulley, it enables efficient power transmission for 3D printers, CNC machines, and robotics. This motor provides reliable performance with a 1.8° step angle and 3.8 kg.cm holding torque, ensuring consistency and accuracy in positioning tasks.

Performance Specifications

品名	型号	电压	额定电流	额定功率	保持转矩	步距角	分辨率	轴径	轴长	轴孔	轴孔公差	轴孔公差	轴孔公差
VHSM42	12V	1.2A	1.44A	1.73W	3.8kg.cm	1.8°	1/20	4.2mm	22mm	4.2mm	±0.01mm	±0.01mm	±0.01mm

规格书 Specification

CONNECTION DIAGRAM



端子	颜色	线色
1	红	红
2	蓝	蓝
3	绿	绿
4	黑	黑

Key Performance Indicators

1.8 ° Step Angle	3.8 kg.cm Holding Torque	12 V Rated Voltage
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Resistance	14 Ω
Detent Torque	54 gf.cm
Drive Mode	2-2

Pulley Specifications

Pulley Geometry

Feature	Value
Tooth Profile	MXL
Teeth Count	20
Pitch	2.032
Diameter	42.3mm
Width	14.0 mm

Mechanical Dimensions

Mounting Configuration

- Square flange: 42.3mm max
- Mounting hole spacing: 31±0.10mm
- 4-M3 flat head screws
- Screw depth: 4.5mm min

Electrical Connectivity

Wiring Sequence

Pin	Color	Phase
1	Green	A
2	Black	A
3	Red	B
4	Blue	B

Connector

PHR-4P2.0