

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

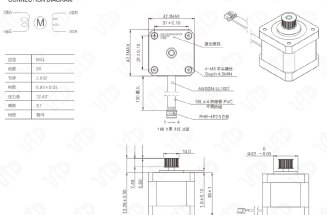
The VHSM42 is a high-precision stepper motor engineered for accurate motion control in demanding automation environments. Featuring a compact 42.3mm square flange design and a pre-installed toothed pulley, it enables efficient power transmission for 3D printers, CNC machines, and robotics. This motor 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

型號	線圈電阻	電機	電機尺寸	步角	保持力矩	額定電壓	額定電流	空載轉速	最大轉速	步距	安裝孔距	安裝孔直徑
VHSM42	1.2Ω	1.2A	42.3mm	1.8°	3.8kg.cm	12V	0.2A	180rpm	3000rpm	1/20	42.3mm	4.5mm

規格書 Specification

CONNECTION DIAGRAM



線圈	顏色	線色
A	紅	紅
B	藍	藍
C	綠	綠
D	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	∅22mm
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