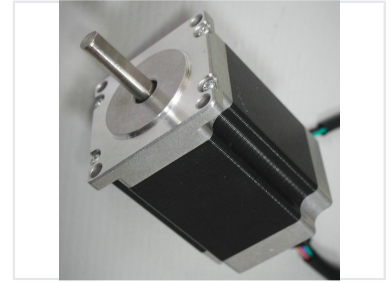
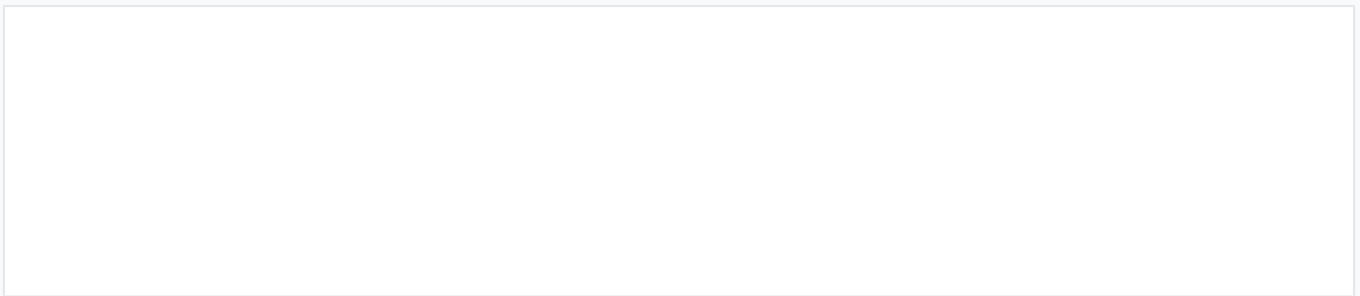


86HS Series 1.8 Degree Hybrid Stepper Motor

This hybrid stepper motor combines permanent magnet and reactive designs. It offers high torque, speed, and resolution for accurate motion control.



Overview

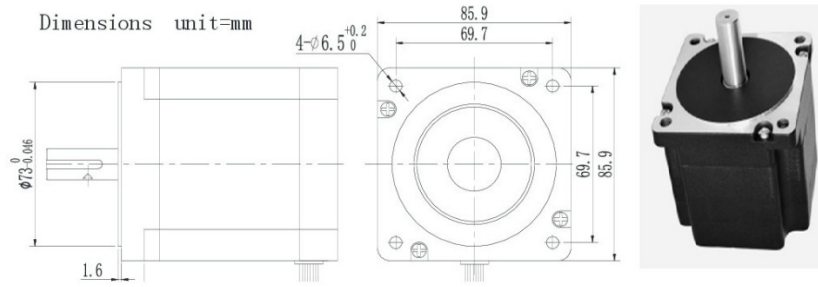


Standard 86HS series hybrid stepper motor design.

86HS Series Hybrid Stepper Motor

The 86HS series is a high-performance 2-phase hybrid stepper motor designed for precise motion control in demanding industrial environments. Featuring a 1.8-degree step angle, these motors offer excellent resolution, torque, and smooth operation across a wide speed range. Engineered for reliability, they incorporate robust bearing systems and are suitable for applications ranging from CNC machinery and robotics to medical and semiconductor equipment.

Technical Specifications



Dimensional outline drawing for the 86HS series, with measurements in millimeters.

Performance Metrics

1.8 °

Step Angle

2

Phase Count

80 °C

Max Temperature Rise

Electrical Characteristics

Parameter	Specification
Step Angle Accuracy	±5% (Full step, no load)
Resistance Accuracy	±10%
Insulation Class	B (130°C)
Insulation Resistance	100 M@1min (500VDC)
Dielectric Strength	500VAC (1 min, 5mA)

Operating Environment

-20°C to +50°C

Model Variants

Standard Series Specifications

Model	Length (mm)	Current (A)	Holding Torque (N.cm)
34HS1401-01	76	5.6	420
34HS3401-01	114	5.6	812
34HS3801-01	114	2.8	850

Applications

Common Applications

CNC Machines, Robotics, Industrial Automation, Printing Equipment, Medical Equipment, Semiconductor Equipment, Textile Machinery