

PRODUCT DATASHEET

ES-ST-17H2061-200-4AL

Hybrid Stepper Motors

Hybrid Stepper Motors | 42 mm Hybrid Stepper Motor Series - ES-ST-HY05

Product Overview

Hybrid Stepper Motors with holding Torque 0.72 N·m, continuous Rated Current 2 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.72	N·m
Continuous Rated Current	2	A
Step Angle	1.8	°
Body Length	61	mm
Weight	0.5	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	1.8 ±10%	Ω
Insulation Class	B	

Technical Specifications

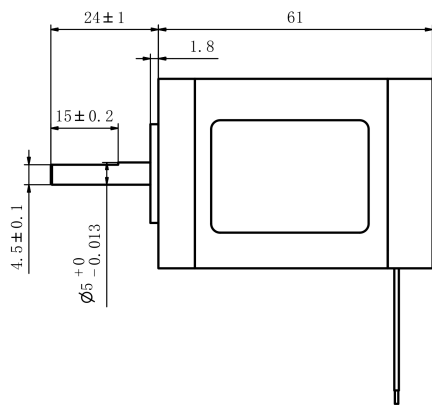
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.72	Nm	
ELECTRICAL			
Continuous Rated Current	2	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	1.8 ±10%	Ω	Measurement: 20 °C
Phase Inductance	4 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	61	mm	
Weight	0.5	kg	

Dimensional & Integration Overview

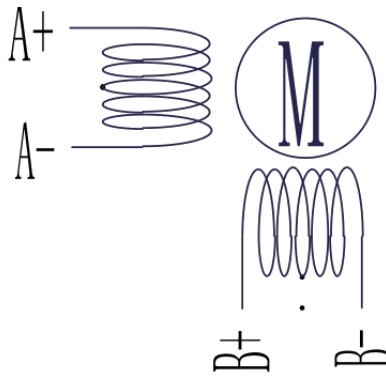
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	61	mm
Weight	0.5	kg

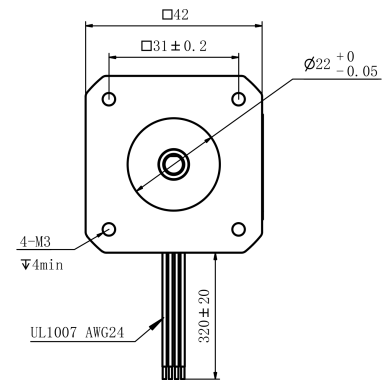
Dimensional Drawings



Mechanical View 1



Power Connector Pinout



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor overall length	61 mm
	Mounting flange dimension	24±1 mm
	Mounting protrusion depth	1.8 mm
	Mounting flange height	15±0.2 mm
	Mounting flange thickness	4.5±0.1 mm
	Output shaft diameter with tolerance	Ø5 +0/-0.013 mm
Mechanical View 3	Overall width	42 mm square
	Mounting hole center distance	31±0.2 mm square pattern
	Output shaft diameter	φ22 +0/-0.05 mm
	Mounting threaded hole specification	4×M3 threaded holes
	Surface roughness	Ra 4 μm minimum

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.