

PRODUCT DATASHEET

ES-ST-17H2034-050-4AL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 0.25 Nm, continuous Rated Current 0.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.25	Nm
Continuous Rated Current	0.5	A
Step Angle	1.8	°
Body Length	35	mm
Weight	0.23	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	15 ±10%	Ω
Insulation Class	B	

Technical Specifications

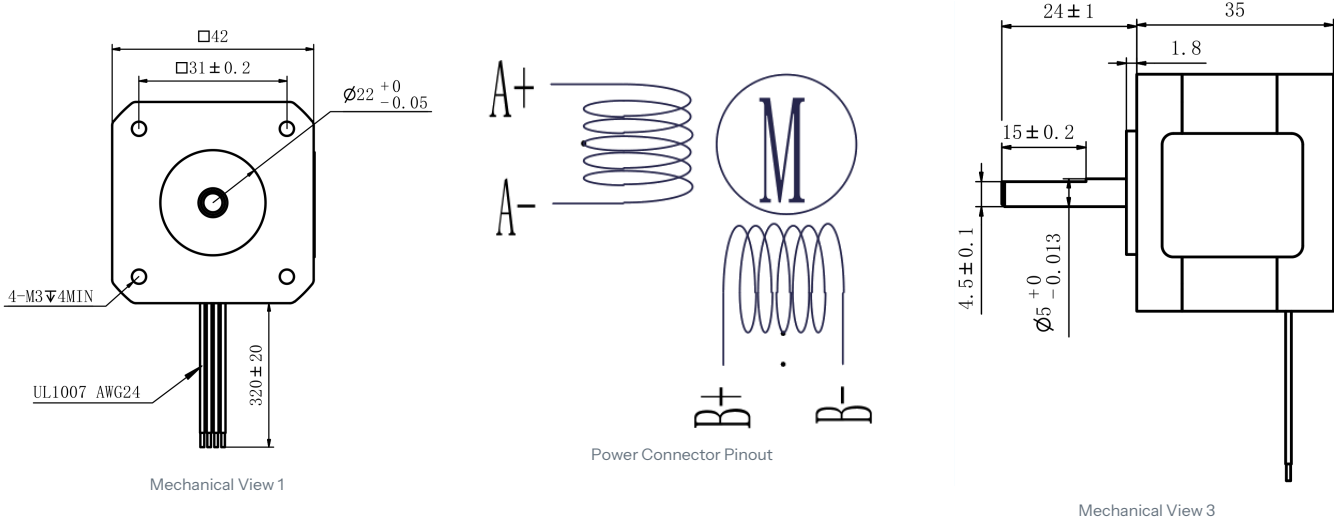
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.25	Nm	
ELECTRICAL			
Continuous Rated Current	0.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	15 ±10%	Ω	Measurement: 20 °C
Phase Inductance	21 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	35	mm	
Weight	0.23	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	35	mm
Weight	0.23	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor envelope dimension (square side length)	42 mm square
	Mounting face dimension (square side with tolerance)	31±0.2 mm square
	Output shaft diameter (with tolerance)	Φ22 +0/-0.05 mm
	Mounting hole specification	4× M3 threaded holes, depth ≥4 mm
Mechanical View 3	Overall length	35 mm
	Motor housing width	24±1 mm
	Mounting boss depth	1.8 mm
	Mounting boss length	15±0.2 mm
	Mounting boss height	4.5±0.1 mm
	Shaft diameter with tolerance	Φ5 +0/-0.013 mm

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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.