

PRODUCT DATASHEET

ES-ST-17H2041-100-4AL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 0.4 Nm, continuous Rated Current 1 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.4	Nm
Continuous Rated Current	1	A
Step Angle	1.8	°
Body Length	41	mm
Weight	0.3	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	4.3 ±10%	Ω
Insulation Class	B	

Technical Specifications

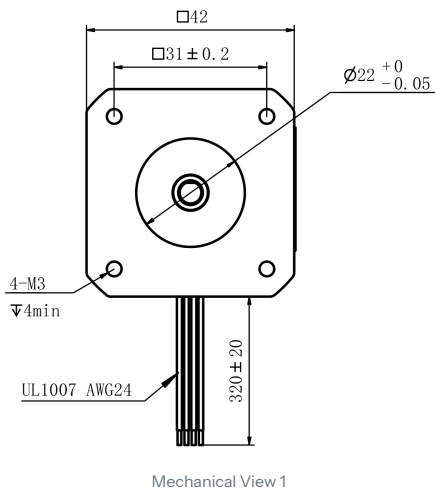
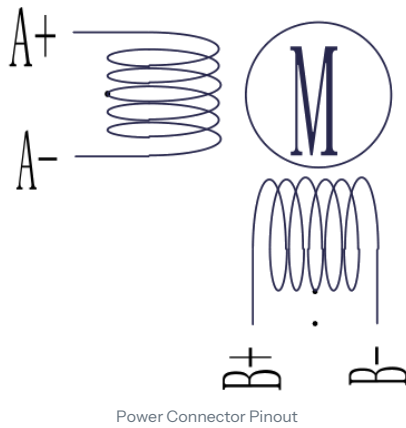
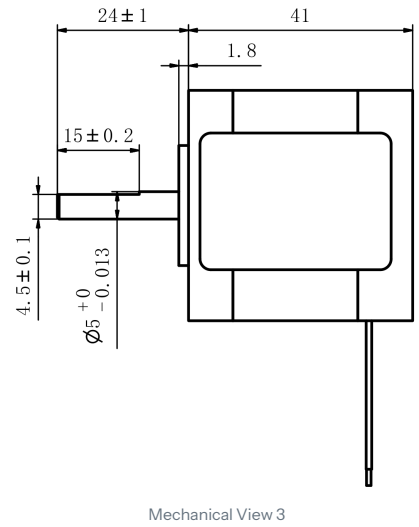
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.4	Nm	
ELECTRICAL			
Continuous Rated Current	1	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	4.3 ±10%	Ω	Measurement: 20 °C
Phase Inductance	8 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	41	mm	
Weight	0.3	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	41	mm
Weight	0.3	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Square flange outer edge length	42 mm square
	Square mounting hole center distance	31±0.2 mm square
	Output shaft diameter	φ22 +0/-0.05 mm
	Mounting threaded hole specification	4× M3 threaded holes
	Surface roughness	Ra 4 μm minimum
Mechanical View 3	Motor side overall length	24±1
	Motor side overall width	41
	Mounting boss protrusion length	1.8
	Left mounting boss width	15±0.2
	Left mounting boss height	4.5±0.1
	Output shaft diameter with tolerance	Φ5 +0/-0.013

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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.