PRODUCT DATASHEET

ES-ST-17H2034-050-4BL

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 N·m, continuous Rated Current 0.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.25	N·m
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

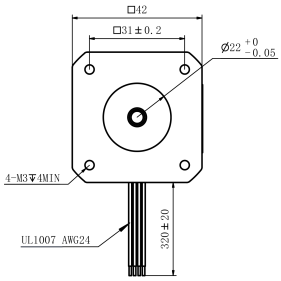
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.25	N·m	
ELECTRICAL			
Continuous Rated Current	0.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	15 ±10%	Ω	Measurement: 20 °C
Phase Inductance	21 ±20%	mH	Measurement: 1 V, 1 kHz
Insulation Class	B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

Dimensional & Integration Overview

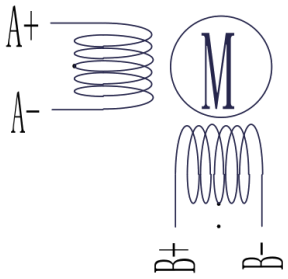
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	35	mm
Weight	0.23	kg

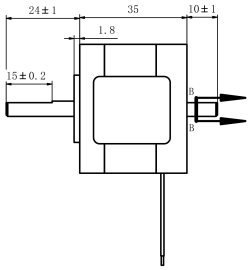
Dimensional Drawings



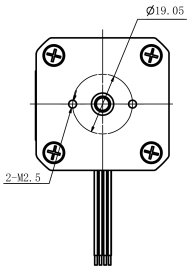
Mechanical View 1



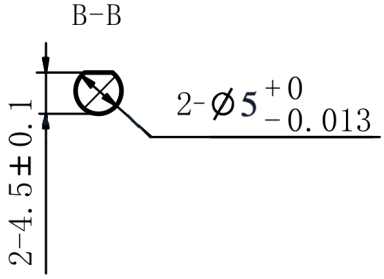
Power Connector Pinout



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Mounting flange square dimension	42×42 mm square
	Mounting hole pattern square	31±0.2 mm square PCD
	Output shaft diameter with tolerance	Φ22 +0/-0.05 mm
	Mounting threaded holes with countersink depth	4×M3 tapped holes, countersink depth ≥4 mm
Mechanical View 3	Right section length	10±1
	Middle section length	35
	Left section length	24±1
	Upper boss height	1.8
	Left mounting boss length	15±0.2
	Section B-B marker upper	B
	Section B-B marker lower	
Mechanical View 4	Output shaft diameter	Ø19.05
	Mounting screw hole specification	2 places, M2.5 thread
Mechanical View 5	Section identifier	B-B
	Hole diameter with tolerance	2-φ5 +0/-0.013
	Mounting hole spacing	2-4.5±0.1

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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.