

PRODUCT DATASHEET

ES-ST-14H2052-150-4BL

Hybrid Stepper Motors

Hybrid Stepper Motors | 35 mm Hybrid Stepper Motor Series - ES-ST-HY04

Product Overview

Hybrid Stepper Motors with holding Torque 0.4 Nm, continuous Rated Current 1.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.4	Nm
Continuous Rated Current	1.5	A
Step Angle	1.8	°
Body Length	52	mm
Weight	0.26	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	2.8 ±10%	Ω
Insulation Class	B	

Technical Specifications

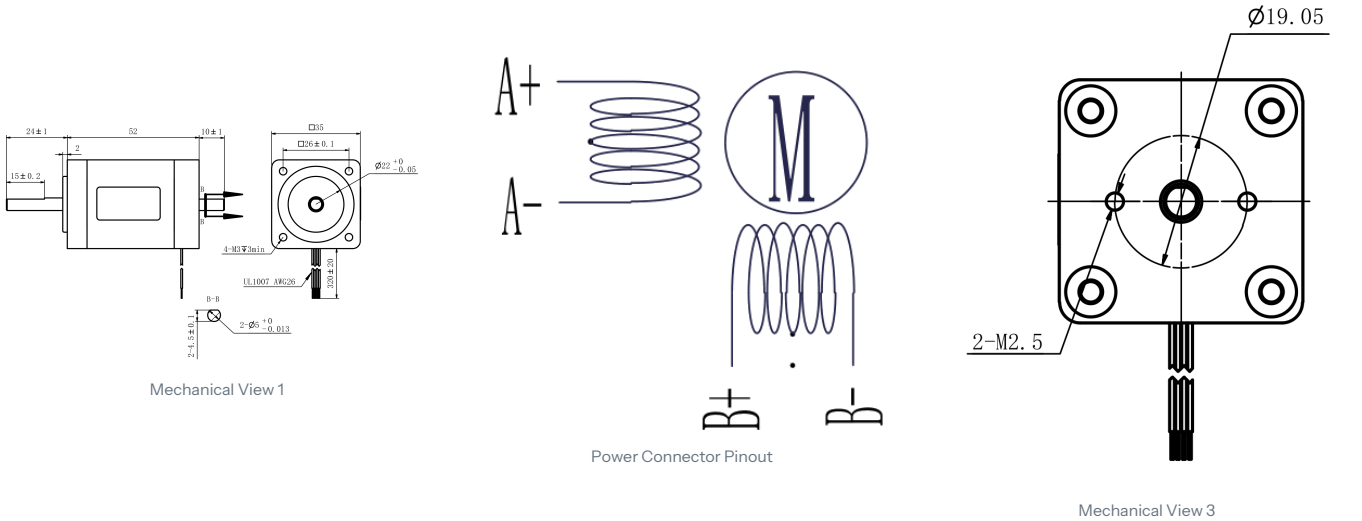
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.4	Nm	
ELECTRICAL			
Continuous Rated Current	1.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	2.8 ±10%	Ω	Measurement: 20 °C
Phase Inductance	3.8 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	52	mm	
Weight	0.26	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	52	mm
Weight	0.26	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor housing side length	□35
	Motor body left section length	24±1
	Motor body right section length	10±1
	Motor body middle section length	52
	Mounting flange square dimension	□26±0.1
	Side protrusion thickness	2
	Output shaft diameter with tolerance	φ22 +0/-0.05
	Shaft extension length	15±0.2
	Datum B (section view marker)	B
	4x M3 threaded holes minimum depth	4-M3 depth 3mm minimum
	2x φ5 locating holes diameter with tolerance	2-φ5 +0/-0.013
	Distance between 2 holes	2-4.5±0.1
Mechanical View 3	Center shaft hole diameter	Φ19.05
	Mounting thread hole specification	2-M2.5

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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.