

PRODUCT DATASHEET

ES-ST-14H2028-050-4AL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 0.15 N·m, continuous Rated Current 0.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.15	N·m
Continuous Rated Current	0.5	A
Step Angle	1.8	°
Body Length	28	mm
Weight	0.14	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	20 ±10%	Ω
Insulation Class	B	

Technical Specifications

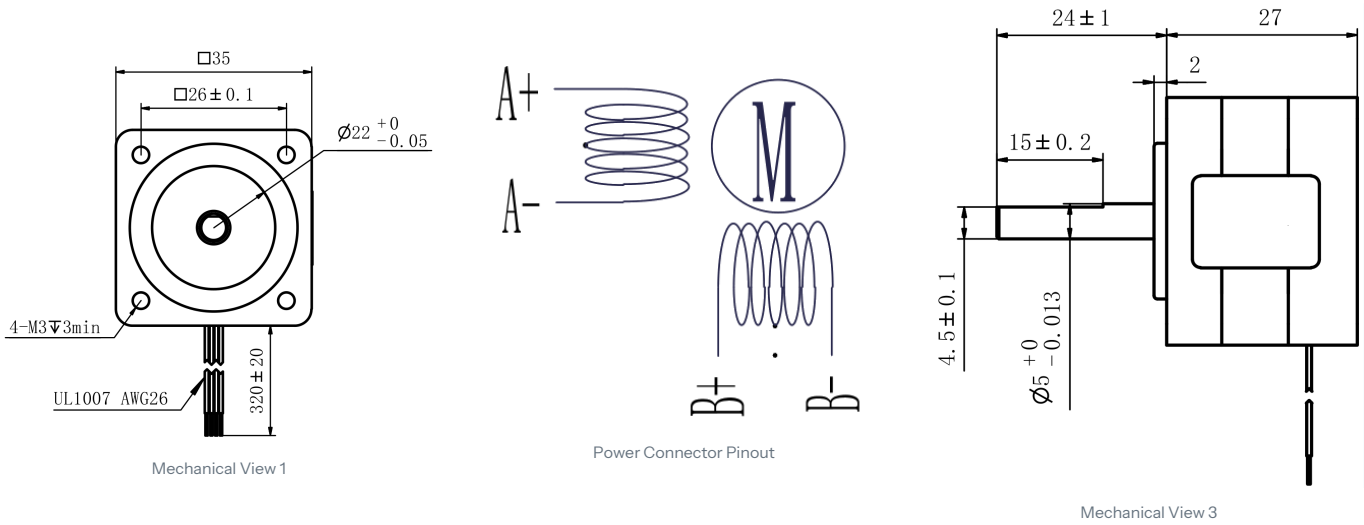
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.15	Nm	
ELECTRICAL			
Continuous Rated Current	0.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	20 ±10%	Ω	Measurement: 20 °C
Phase Inductance	23 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	28	mm	
Weight	0.14	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	28	mm
Weight	0.14	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	square size	square 35 mm
		square 26 $\pm$ 0.1 mm
	shaft diameter	$\varnothing$ 22 +0 / -0.05 mm
	threaded hole count and depth	4x M3 tapped holes, depth 3 min
	lead length	320 $\pm$ 20 mm
Mechanical View 3	Motor body axial length	27
	Distance from shaft end to motor front face	24 $\pm$ 1
	Front shoulder or step thickness	2
	Shaft protrusion length	15 $\pm$ 0.2
	Shaft flat or step height	4.5 $\pm$ 0.1
	Shaft diameter and tolerance	Diameter 5 +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.