

PRODUCT DATASHEET

ES-ST-11H2033-100-4AL

Hybrid Stepper Motors

Hybrid Stepper Motors | 28 mm Hybrid Stepper Motor Series - ES-ST-HY03

Product Overview

Hybrid Stepper Motors with holding Torque 0.06 Nm, continuous Rated Current 1 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.06	Nm
Continuous Rated Current	1	A
Step Angle	1.8	°
Body Length	33.35	mm
Weight	0.11	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	2.1 ±10%	Ω
Insulation Class	B	

Technical Specifications

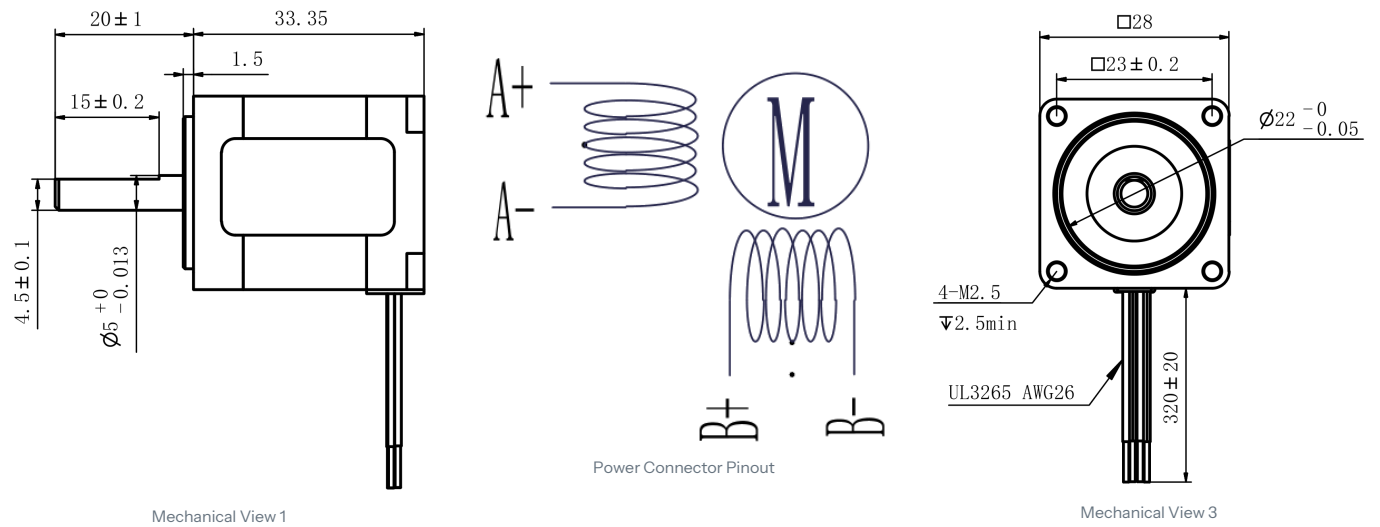
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.06	Nm	
ELECTRICAL			
Continuous Rated Current	1	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	2.1 ±10%	Ω	Measurement: 20 °C
Phase Inductance	1.5 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	33.35	mm	
Weight	0.11	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	33.35	mm
Weight	0.11	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor body length	33.35 mm
	Total shaft extension length	20 ±1 mm
	Face step or mounting face offset	1.5 mm
	Shaft flat length	15 ±0.2 mm
	Shaft diameter	Diameter 5 mm, upper deviation +0 mm, lower deviation -0.013 mm
	Shaft flat thickness or across-flat dimension	4.5 ±0.1 mm
Mechanical View 3	overall width	28 mm
	mounting hole center spacing	23 ± 0.2 mm
	central hole diameter and tolerance	ø22 mm, tolerance +0 / -0.05 mm
	threaded hole quantity, size, and minimum depth	4 × M2.5 tapped holes, minimum depth 2.5 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.