

PRODUCT DATASHEET

ES-ST-11H2033-100-4BL

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

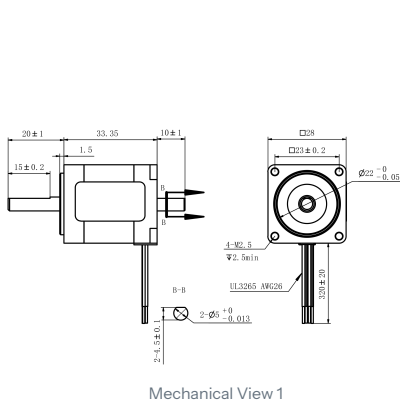
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.06	Nm	
ELECTRICAL			
Continuous Rated Current	1	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	2.1 ±10%	Ω	Measurement: 20 °C
Phase Inductance	1.5 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation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

Dimensional & Integration Overview

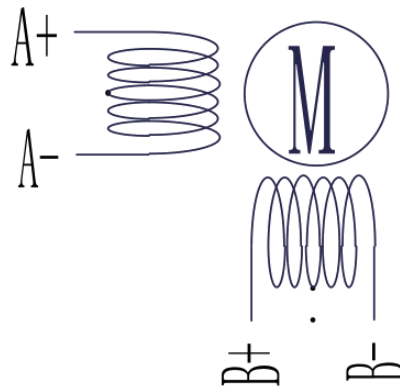
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	33.35	mm
Weight	0.11	kg

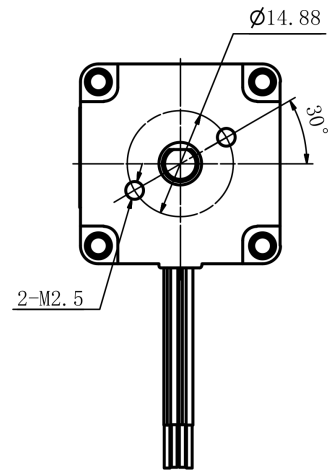
Dimensional Drawings



Mechanical View 1



Power Connector Pinout



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Right-side axial length	10 ± 1
	Flange outside square size	Square 28
	Body axial length	33.35
	Left-side extension length	20 ± 1
	Local step length	1.5
	Mounting hole center square pitch	Square pitch 23 ± 0.2
	Shaft protrusion length	15 ± 0.2
	Center boss diameter and tolerance	Diameter 22, tolerance $+0/-0.05$
	Section or view marker B	B
	Mounting threaded hole specification	4 × M2.5 threaded holes
	Minimum thread depth	Minimum depth 2.5
	B-B section view label	Section B-B
	Section hole diameter and tolerance	2 × diameter 5, tolerance $+0/-0.013$
	Section slot or spacing dimension	$2 \times 4.5 \pm 0.1$
Mechanical View 3	Center hole diameter	Diameter 14.88
	Mounting hole angular position	30 degrees
	Threaded mounting hole quantity and size	2 × M2.5 threaded holes

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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.