

PRODUCT DATASHEET

ES-ST-08H2028-050-4BL

Hybrid Stepper Motors

Hybrid Stepper Motors | 20 mm Hybrid Stepper Motor Series - ES-ST-HY02

Product Overview

Hybrid Stepper Motors with holding Torque 0.012 Nm, continuous Rated Current 0.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.012	Nm
Continuous Rated Current	0.5	A
Step Angle	1.8	°
Body Length	28	mm
Weight	0.06	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	6 ±10%	Ω
Insulation Class	B	

Technical Specifications

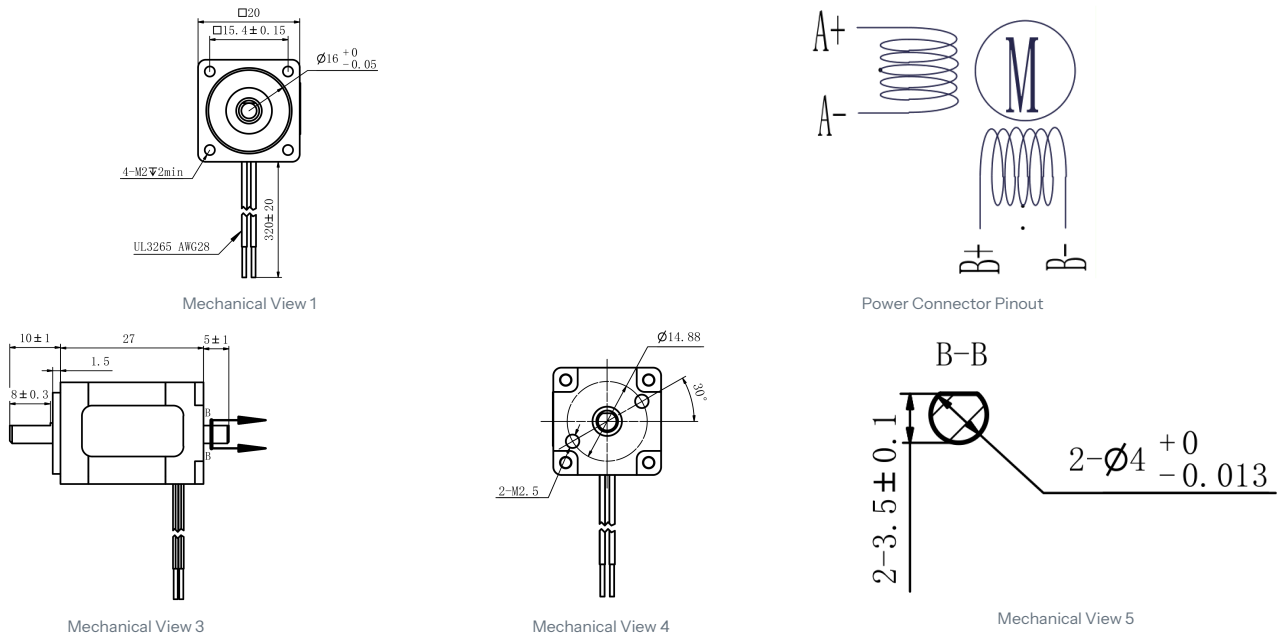
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.012	Nm	
ELECTRICAL			
Continuous Rated Current	0.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	6 ±10%	Ω	Measurement: 20 °C
Phase Inductance	1.5 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	28	mm	
Weight	0.06	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	28	mm
Weight	0.06	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Square outer envelope size	Square 20
	Mounting hole pitch square dimension	Square pitch 15.4 ±0.15
	Central diameter tolerance	Diameter 16 with upper tolerance +0 and lower tolerance -0.05
	Threaded mounting hole specification and minimum depth	4 × M2 threaded holes, minimum depth 2
Mechanical View 3	Main body length	27 mm
	Left-side protrusion length	10 ± 1 mm
	Step offset dimension	1.5 mm
	Left terminal length	8 ± 0.3 mm
	B section or marker labels	B markers
Mechanical View 4	Front diameter	Ø14.88 mm
	Angle	30°
	Mounting hole count and thread size	2 × M2.5
Mechanical View 5	section reference	Section B-B
	hole size	2-3.5±0.1 mm
	hole diameter and tolerance	2-Ø4 +0/-0.013 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.