

PRODUCT DATASHEET

ES-ST-08H2038-050-4AL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 0.02 N·m, continuous Rated Current 0.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.02	N·m
Continuous Rated Current	0.5	A
Step Angle	1.8	°
Body Length	38	mm
Weight	0.08	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	8.8 ±10%	Ω
Insulation Class	B	

Technical Specifications

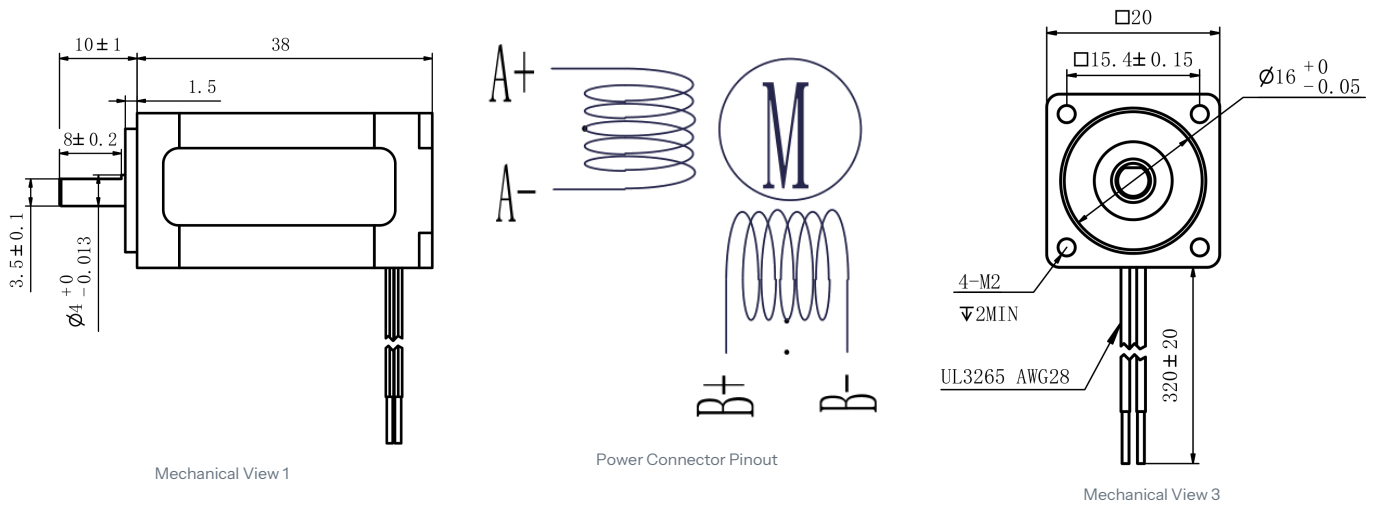
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.02	Nm	
ELECTRICAL			
Continuous Rated Current	0.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	8.8 ±10%	Ω	Measurement: 20 °C
Phase Inductance	2.7 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	38	mm	
Weight	0.08	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	38	mm
Weight	0.08	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Body length	38 mm
	Shaft protrusion length	10 ±1 mm
	Shaft shoulder offset	1.5 mm
	Shaft end horizontal dimension	8 ±0.2 mm
	Shaft end vertical dimension	3.5 ±0.1 mm
	Shaft diameter	Diameter 4 mm, upper deviation +0 mm, lower deviation -0.013 mm
Mechanical View 3	overall square size	□20 mm
	hole pitch	15.4 ± 0.15 mm
	diameter	Ø16 +0/-0.05 mm
	threaded hole quantity and size	4 × M2
	minimum requirement note	2 MIN

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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.