

PRODUCT DATASHEET

ES-ST-24H2068-400-4AL

Hybrid Stepper Motors

Hybrid Stepper Motors | 60 mm Hybrid Stepper Motor Series - ES-ST-HY07

Product Overview

Hybrid Stepper Motors with holding Torque 2.1 Nm, continuous Rated Current 4 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	2.1	Nm
Continuous Rated Current	4	A
Step Angle	1.8	°
Body Length	68	mm
Weight	1	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.6 ±10%	Ω
Insulation Class	B	

Technical Specifications

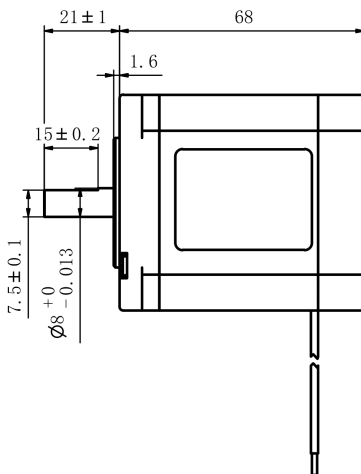
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	2.1	Nm	
ELECTRICAL			
Continuous Rated Current	4	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.6 ±10%	Ω	Measurement: 20 °C
Phase Inductance	1.9 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	68	mm	
Weight	1	kg	

Dimensional & Integration Overview

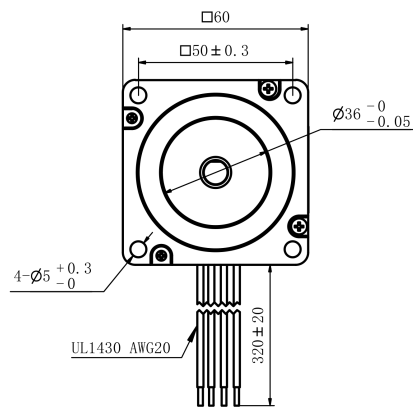
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	68	mm
Weight	1	kg

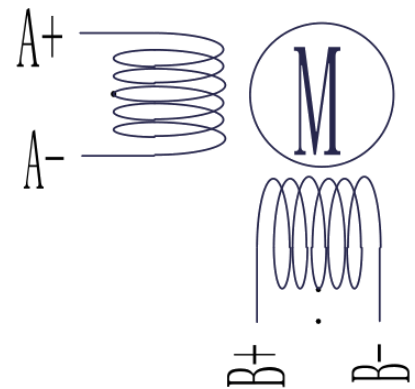
Dimensional Drawings



Mechanical View 1



Mechanical View 2



Feedback Connector Pinout

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall width	68 mm
	Mounting flange width	21±1 mm
	Wall thickness	1.6 mm
	Mounting flange height	15±0.2 mm
	Mounting flange depth	7.5±0.1 mm
	Mounting hole diameter	Ø8 +0/-0.013 mm
Mechanical View 2	Motor mounting flange width	60 mm square
	Motor mounting flange center square dimension	50±0.3 mm square
	Output shaft diameter with tolerance	Ø36 -0/-0.05 mm
	Four mounting holes diameter with tolerance	4 holes, Ø5 +0.3/-0 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.