

PRODUCT DATASHEET

ES-ST-34H2060-300-4AL

Hybrid Stepper Motors

Hybrid Stepper Motors | 86 mm Hybrid Stepper Motor Series - ES-ST-HY08

Product Overview

Hybrid Stepper Motors with holding Torque 3 Nm, continuous Rated Current 3 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	3	Nm
Continuous Rated Current	3	A
Step Angle	1.8	°
Body Length	60.5	mm
Weight	1.6	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	1 ±10%	Ω
Insulation Class	B	

Technical Specifications

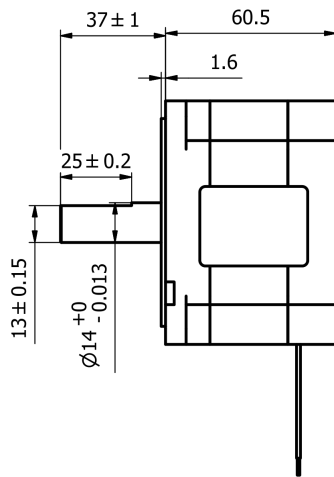
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	3	Nm	
ELECTRICAL			
Continuous Rated Current	3	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	1 ±10%	Ω	Measurement: 20 °C
Phase Inductance	6 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	60.5	mm	
Weight	1.6	kg	

Dimensional & Integration Overview

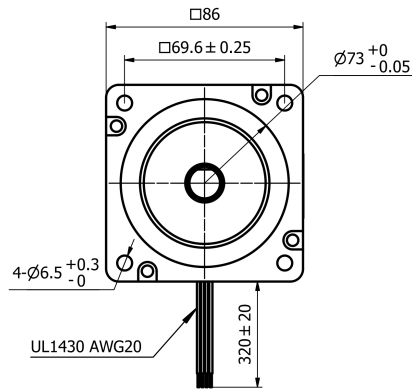
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	60.5	mm
Weight	1.6	kg

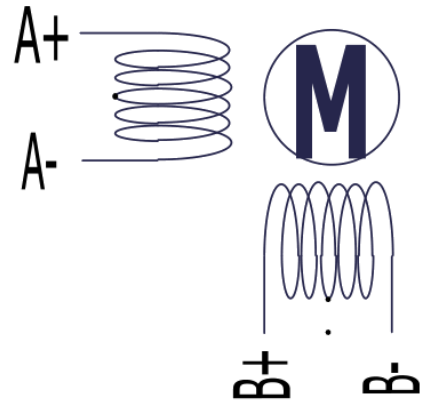
Dimensional Drawings



Mechanical View 1



Mechanical View 2



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor side overall length	60.5 mm
	Motor side partial width	37±1 mm
	Center shaft protrusion width	1.6 mm
	Mounting boss width	25±0.2 mm
	Left side vertical height	13±0.15 mm
	Output shaft diameter	Ø14 +0.013/-0.013 mm
Mechanical View 2	Square flange side length	86 mm square
	Mounting hole pattern square PCD	69.6 ±0.25 mm square PCD
	Mounting hole diameter and quantity	4 holes, Ø6.5 +0.3/-0 mm
Mechanical View 3	Terminal designation (positive)	A+
	Terminal designation (negative)	A-
	Motor excitation mode designation	M

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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.