

PRODUCT DATASHEET

ES-ST-34H2098-600-4AL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 7 N·m, continuous Rated Current 6 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	7	N·m
Continuous Rated Current	6	A
Step Angle	1.8	°
Body Length	96.5	mm
Weight	2.9	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.5 ±10%	Ω
Insulation Class	B	

Technical Specifications

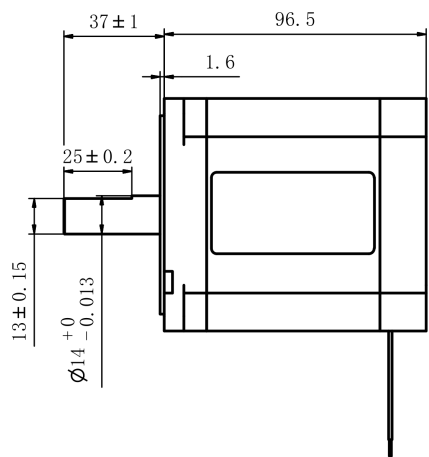
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	7	Nm	
ELECTRICAL			
Continuous Rated Current	6	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.5 ±10%	Ω	Measurement: 20 °C
Phase Inductance	3.5 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	96.5	mm	
Weight	2.9	kg	

Dimensional & Integration Overview

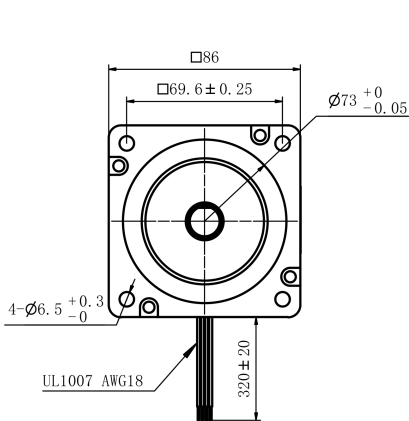
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	96.5	mm
Weight	2.9	kg

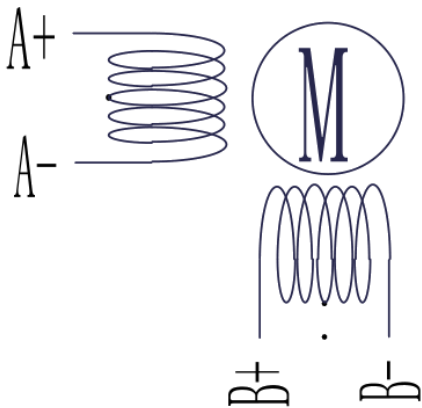
Dimensional Drawings



Mechanical View 1



Mechanical View 2



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall length	96.5 mm
	Left section length	37±1 mm
	Mounting flange thickness	1.6 mm
	Left mounting width	25±0.2 mm
	Left side height	13±0.15 mm
	Shaft diameter	Ø14 +0/-0.013 mm
Mechanical View 2	Square housing side length	86 mm square
	Mounting face side length	69.6±0.25 mm square
	Shaft diameter	Ø73 +0/-0.05
	Mounting holes	4× Ø6.5 +0.3/-0
Mechanical View 3	Motor designation	Motor (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.