PRODUCT DATASHEET

ES-ST-34H2075-450-4AL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 4.5 N·m, continuous Rated Current 4.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	4.5	N·m
Continuous Rated Current	4.5	A
Step Angle	1.8	°
Body Length	75	mm
Weight	2.1	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.6 ±10%	Ω
Insulation Class	B	

Technical Specifications

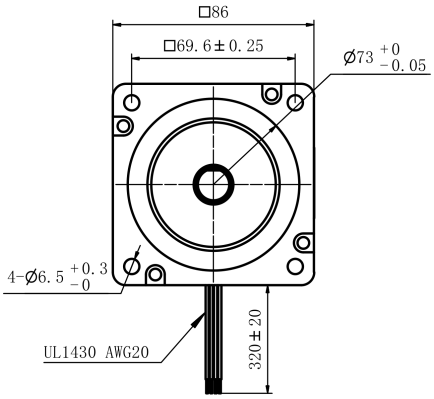
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	4.5	N·m	
ELECTRICAL			
Continuous Rated Current	4.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.6 ±10%	Ω	Measurement: 20 °C
Phase Inductance	4.5 ±20%	mH	Measurement: 1 V, 1 kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	75	mm	
Weight	2.1	kg	

Dimensional & Integration Overview

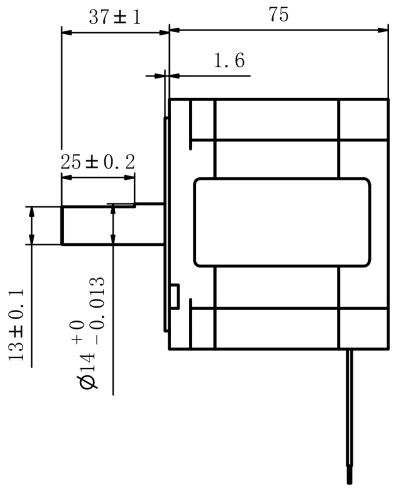
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	75	mm
Weight	2.1	kg

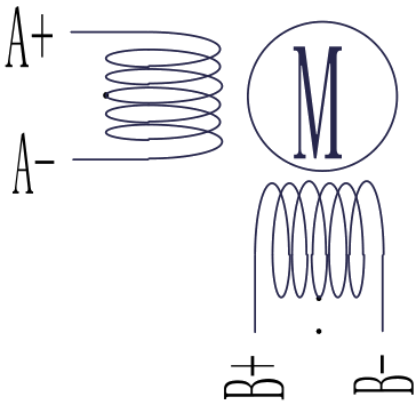
Dimensional Drawings



Mechanical View 1



Mechanical View 2



Feedback Connector Pinout

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor square housing side length	86 mm square
	Mounting face square dimension	69.6±0.25 mm square
	Output shaft diameter	Φ73 +0/-0.05 mm
	Mounting holes (4 places)	4× Φ6.5 +0.3/-0 mm
Mechanical View 2	Total length	75 mm
	Mounting flange width	37±1 mm
	Protrusion/slot width	1.6 mm
	Mounting face depth	25±0.2 mm
	Side dimension	13±0.1 mm
	Shaft diameter	Φ14 +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.