

PRODUCT DATASHEET

ES-ST-34H2075-450-4BL

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 Nm, continuous Rated Current 4.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	4.5	Nm
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

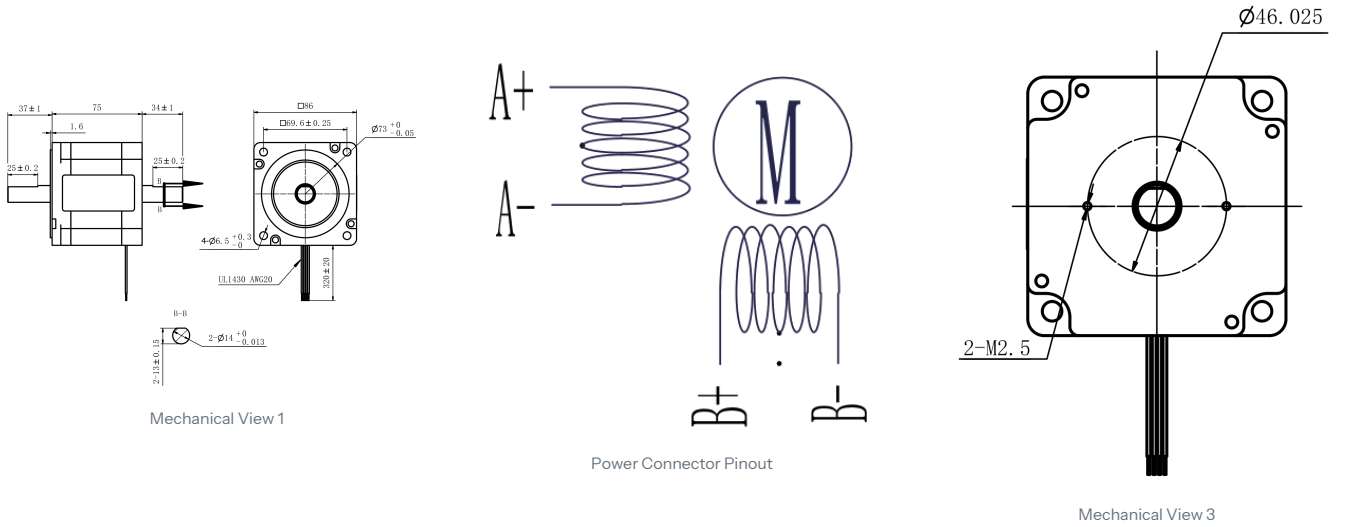
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	4.5	Nm	
ELECTRICAL			
Continuous Rated Current	4.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.6 ±10%	Ω	Measurement: 20 °C
Phase Inductance	4.5 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
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



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Total length	37±1 mm
	Middle section length	75 mm
	Right section length	34±1 mm
	Mounting face square dimension	86×86 mm square
	Mounting hole pattern square	69.6±0.25 mm square PCD
	Shaft outer diameter	Ø73 +0/-0.05 mm
	Local thickness or depth	1.6 mm
	Left mounting face width	25±0.2 mm
	Right mounting face width	
	Datum B (upper)	Datum B
	Datum B (lower)	
	Mounting hole diameter and quantity	4×Ø6.5 +0.3/-0 mm
	Section view label	Section B-B
	Dual shaft diameter	2×Ø14 +0/-0.013 mm
	Axial position dimension	2×13±0.15 mm
Mechanical View 3	Mounting hole thread specification	2× M2.5 threaded holes
	Flange outer diameter	Φ46.025 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.