

PRODUCT DATASHEET

ES-ST-34H2098-600-4BL

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

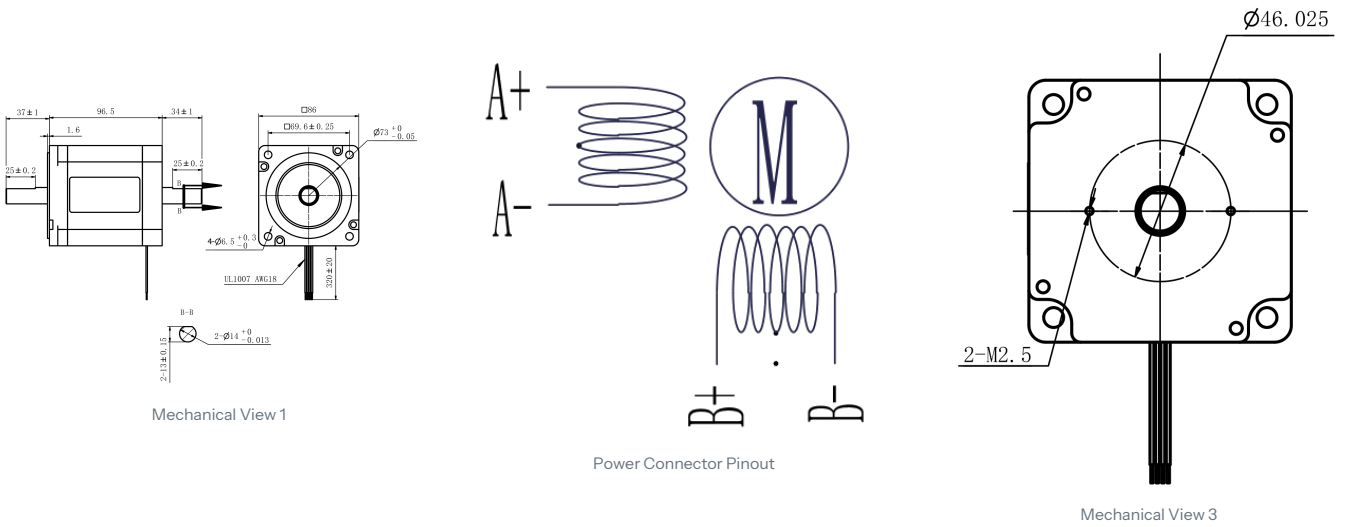
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	7	Nm	
ELECTRICAL			
Continuous Rated Current	6	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.5 ±10%	Ω	Measurement: 20 °C
Phase Inductance	3.5 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation 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



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Left end axial length	37±1 mm
	Middle section axial length	96.5 mm
	Right end axial length	34±1 mm
	Mounting flange square dimension	86×86 mm square
	Protruding feature depth	1.6 mm
	Mounting flange inner square dimension	69.6±0.25 mm square
	Output shaft diameter	Ø73 +0/-0.05 mm
	Left side protrusion height	25±0.2 mm
	Right side protrusion height	
	Flange mounting hole diameter (4 places)	4×Ø6.5 +0.3/-0 mm
	Keyway positioning hole diameter (2 places)	2×Ø14 +0/-0.013 mm
	Keyway hole spacing (2 places)	2×13±0.15 mm
Mechanical View 3	Flange outer diameter	Φ46.025
	Mounting hole specification	2×M2.5 threaded holes

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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.