

PRODUCT DATASHEET

ES-ST-24H2056-300-4BL

Hybrid Stepper Motors

Hybrid Stepper Motors | 60 mm Hybrid Stepper Motor Series - ES-ST-HY07

Product Overview

Hybrid Stepper Motors with holding Torque 1.5 Nm, continuous Rated Current 3 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	1.5	Nm
Continuous Rated Current	3	A
Step Angle	1.8	°
Body Length	56	mm
Weight	0.8	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.8 ±10%	Ω
Insulation Class	B	

Technical Specifications

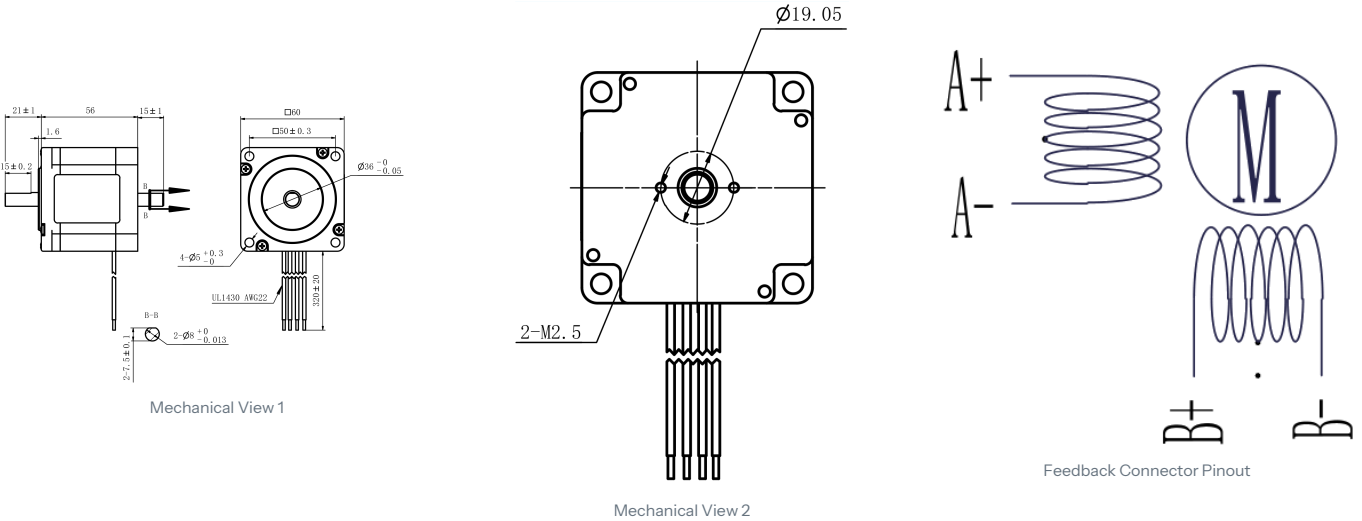
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	1.5	Nm	
ELECTRICAL			
Continuous Rated Current	3	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.8 ±10%	Ω	Measurement: 20 °C
Phase Inductance	2.3 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	56	mm	
Weight	0.8	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	56	mm
Weight	0.8	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Shaft end length	21±1 mm
	Shaft body length	56 mm
	Shaft root length	15±1 mm
	Square frame dimension	60×60 mm
	Mounting face dimension	50±0.3×50±0.3 mm
	Shaft step height	1.6 mm
	Shaft diameter	Ø36 -0/-0.05 mm
	Shaft root height	15±0.2 mm
	Datum identifier B	Datum B
	Datum identifier B repeat	
	Section view identifier	Section B-B
	Mounting hole diameter and quantity	4×Ø5 +0.3/-0 mm
	Shaft hole diameter and quantity	2×Ø8 +0/-0.013 mm
	Hole spacing	2×7.5±0.1 mm
Mechanical View 2	Shaft diameter	Φ19.05
	Mounting hole specification	2-M2.5

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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.