

PRODUCT DATASHEET

ES-ST-23H2042-100-4BL

Hybrid Stepper Motors

Hybrid Stepper Motors | 57 mm Hybrid Stepper Motor Series - ES-ST-HY06

Product Overview

Hybrid Stepper Motors with holding Torque 0.6 Nm, continuous Rated Current 1 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.6	N·m
Continuous Rated Current	1	A
Step Angle	1.8	°
Body Length	42	mm
Weight	0.46	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	4.2 ±10%	Ω
Insulation Class	B	

Technical Specifications

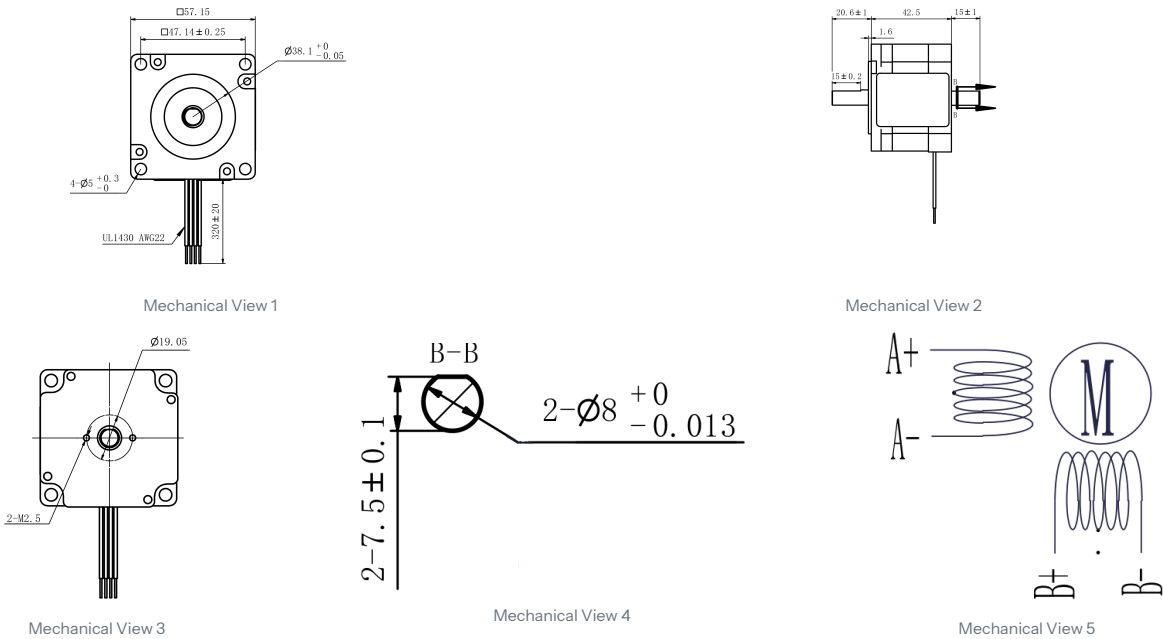
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.6	Nm	
ELECTRICAL			
Continuous Rated Current	1	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	4.2 ±10%	Ω	Measurement: 20 °C
Phase Inductance	9 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	42	mm	
Weight	0.46	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	42	mm
Weight	0.46	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Housing front face width	57.15 mm square
	Mounting face width	47.14±0.25 mm square
	Shaft diameter	Φ38.1 +0/-0.05 mm
	Mounting hole diameter and quantity	4 holes of Φ5 +0.3/-0 mm
Mechanical View 2	Mounting flange left segment length	20.6±1 mm
	Motor body center segment length	42.5 mm
	Mounting flange right segment length	15±1 mm
	Internal step depth	1.6 mm
	Mounting protrusion height	15±0.2 mm
	Datum B identifier	Datum B
Mechanical View 3	central bore diameter	Diameter 19.05
	mounting threaded holes	2 x M2.5 threaded holes
Mechanical View 4	Section Identifier	B-B
	Round Hole Diameter and Tolerance	2-Ø8 +0/-0.013
	Hole Center Distance	2-7.5±0.1

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 5	Datum reference A positive	Datum A+
	Datum reference A negative	Datum A-
	Model or identifier M	M
	Mounting hole or height identifier H	H
	Mounting hole or width identifier B	B

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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.