

PRODUCT DATASHEET

ES-ST-23H2042-100-4AL

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	Nm
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

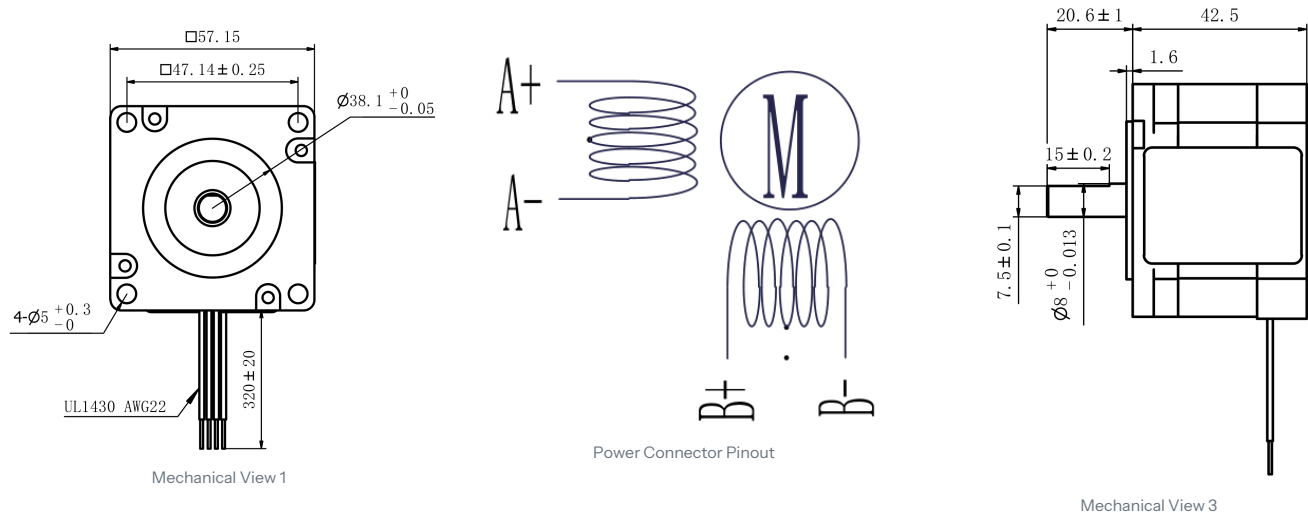
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.6	Nm	
ELECTRICAL			
Continuous Rated Current	1	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	4.2 ±10%	Ω	Measurement: 20 °C
Phase Inductance	9 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation 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	Envelope outer dimension	Square 57.15
	Envelope inner mounting dimension	Square 47.14 ± 0.25
	Output shaft diameter	$\Phi 38.1 + 0 / - 0.05$
	Mounting hole pattern	4 holes, $\Phi 5 + 0.3 / - 0$
Mechanical View 3	Top protrusion width	20.6 ± 1 mm
	Top protrusion length	42.5 mm
	Boss thickness	1.6 mm
	Mounting boss width	15 ± 0.2 mm
	Mounting boss height	7.5 ± 0.1 mm
	Shaft diameter	$\Phi 8 + 0 / - 0.013$ 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.