

PRODUCT DATASHEET

ES-ST-23H2076-400-4BL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 2 Nm, continuous Rated Current 4 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	2	Nm
Continuous Rated Current	4	A
Step Angle	1.8	°
Body Length	76	mm
Weight	1.06	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.6 ±10%	Ω
Insulation Class	B	

Technical Specifications

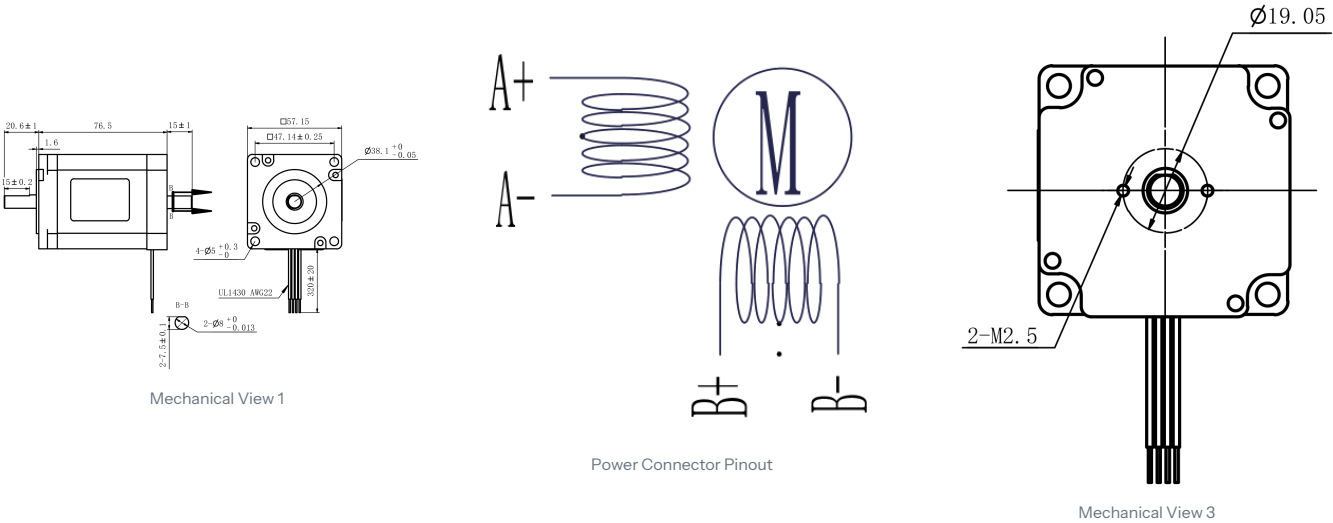
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	2	Nm	
ELECTRICAL			
Continuous Rated Current	4	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.6 ±10%	Ω	Measurement: 20 °C
Phase Inductance	2.4 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	76	mm	
Weight	1.06	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	76	mm
Weight	1.06	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor housing square side length	□57.15
	Motor housing depth	15±1
	Motor end protrusion length	20.6±1
	Motor main body width	76.5
	Motor mounting face square side length	□47.14±0.25
	Housing wall thickness	1.6
	Output shaft diameter with tolerance	Φ38.1+0/-0.05
	Left end face protrusion dimension	15±0.2
	Mounting hole specification	4-Φ5 +0.3/-0
	Shaft flat width with tolerance	2-Φ8 +0/-0.013
	Shaft flat depth	2-7.5±0.1
	Section view identifier	Section B-B
Mechanical View 3	Shaft diameter	Φ19.05
	Mounting hole thread 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.