

PRODUCT DATASHEET

ES-ST-23H2065-300-4BL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 1.6 Nm, continuous Rated Current 3 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	1.6	Nm
Continuous Rated Current	3	A
Step Angle	1.8	°
Body Length	65	mm
Weight	0.86	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.9 ±10%	Ω
Insulation Class	B	

Technical Specifications

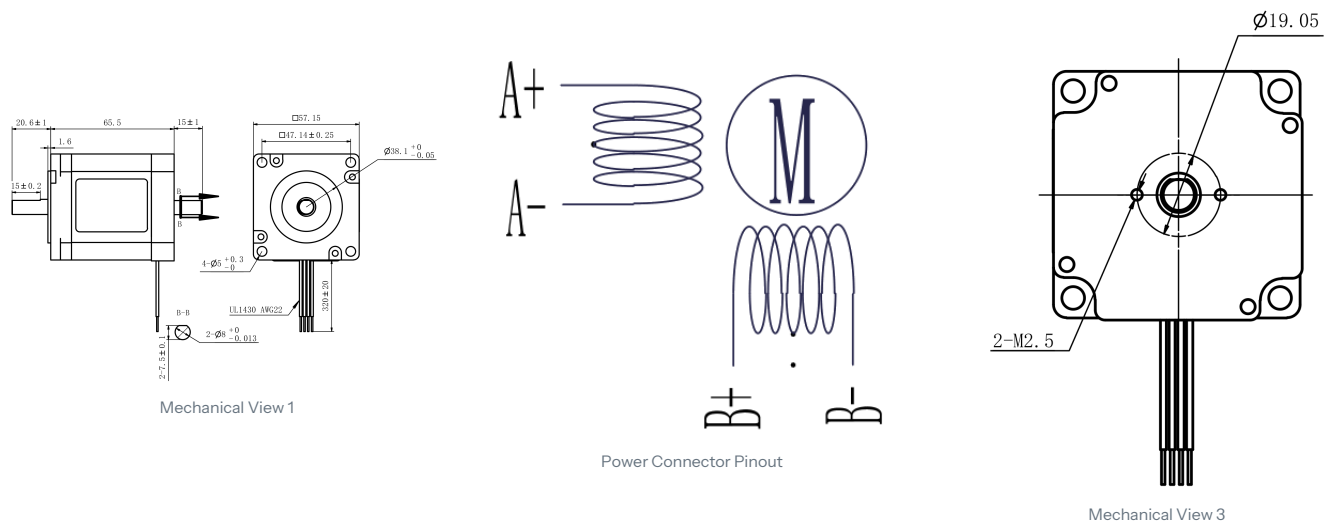
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	1.6	Nm	
ELECTRICAL			
Continuous Rated Current	3	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.9 ±10%	Ω	Measurement: 20 °C
Phase Inductance	2.7 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	65	mm	
Weight	0.86	kg	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	65	mm
Weight	0.86	kg

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor body length	20.6±1 mm
	Middle section length	65.5 mm
	Right section length	15±1 mm
	Square face dimension	□57.15 mm
	Square face mounting hole center distance	□47.14±0.25 mm
	Left flange height	1.6 mm
	Output shaft diameter	Ø38.1 +0/-0.05 mm
	Left mounting plate height	15±0.2 mm
	Square face mounting holes	4-Ø5 +0.3/-0 mm
	Center holes on shaft side	2-Ø8 +0/-0.013 mm
	Keyway depth	2-7.5±0.1 mm
Mechanical View 3	Mounting hole specification	2× M2.5 threaded holes
	Datum marker	Datum C
	Shaft diameter	Ø19.05 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.