PRODUCT DATASHEET

ES-ST-23H2051-200-4BL

Hybrid Stepper Motors

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

Product Overview

Hybrid Stepper Motors with holding Torque 1 N·m, continuous Rated Current 2 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	1	N·m
Continuous Rated Current	2	A
Step Angle	1.8	°
Body Length	51	mm
Weight	0.64	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	1.5 ±10%	Ω
Insulation Class	B	

Technical Specifications

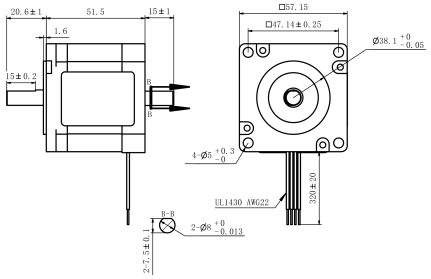
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	1	N·m	
ELECTRICAL			
Continuous Rated Current	2	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	1.5 ±10%	Ω	Measurement: 20 °C
Phase Inductance	4.4 ±20%	mH	Measurement: 1 V, 1 kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	51	mm	
Weight	0.64	kg	

Dimensional & Integration Overview

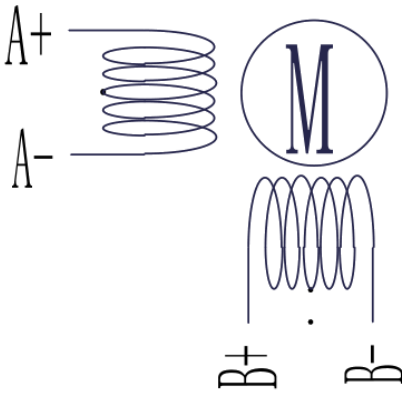
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	51	mm
Weight	0.64	kg

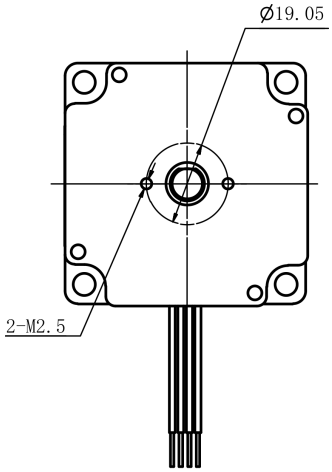
Dimensional Drawings



Mechanical View 1



Power Connector Pinout



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Square housing dimension	57.15 mm square
	Mounting hole spacing	47.14±0.25 mm square pattern
	Output shaft diameter	Ø38.1 +0/-0.05 mm
	Mounting hole diameter	4× Ø5 +0.3/-0 mm holes
	Shaft end hole for key	2× Ø8 +0/-0.013 mm
	Mounting base width	20.6±1 mm
	Middle section length	51.5 mm
	Front end length	15±1 mm
	Mounting base height	15±0.2 mm
	Boss or feature height	1.6 mm
	Bilateral feature dimension	2× 7.5±0.1 mm
Mechanical View 3	Mounting hole specification	2 × M2.5 threaded holes
	Output shaft diameter	Φ19.05

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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.