PRODUCT DATASHEET

ES-ST-24H2047-200-4AL

Hybrid Stepper Motors

Hybrid Stepper Motors | 60 mm Hybrid Stepper Motor Series - ES-ST-HY07

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	47	mm
Weight	0.6	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	1.5 ±10%	Ω
Insulation Class	B	

Technical Specifications

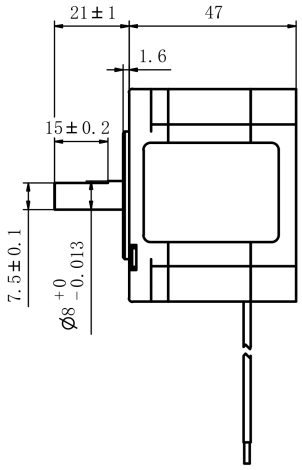
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	1	N·m	
ELECTRICAL			
Continuous Rated Current	2	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	1.5 ±10%	Ω	Measurement: 20 °C
Phase Inductance	3.4 ±20%	mH	Measurement: 1 V, 1 kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	47	mm	
Weight	0.6	kg	

Dimensional & Integration Overview

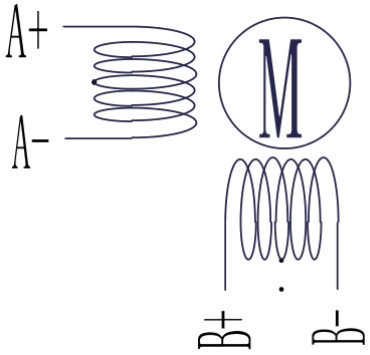
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	47	mm
Weight	0.6	kg

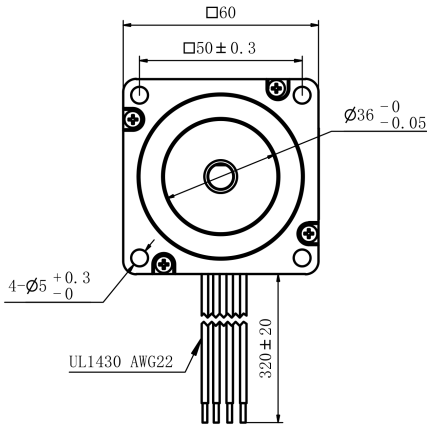
Dimensional Drawings



Mechanical View 1



Power Connector Pinout



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Mounting flange length	21±1 mm
	Overall length	47 mm
	Step or boss width	1.6 mm
	Mounting flange height	15±0.2 mm
	Left side boss or feature height	7.5±0.1 mm
	Output shaft diameter and tolerance	φ8 +0/-0.013 mm
Mechanical View 3	Housing width	60 mm square
	Mounting face dimension	50±0.3 mm square
	Output shaft diameter with tolerance	Φ36 -0/-0.05 mm
	Mounting hole specification	4×Φ5 +0.3/-0 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.