

PRODUCT DATASHEET

ES-ST-24H2047-200-4BL

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	Nm	
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: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	47	mm	
Weight	0.6	kg	

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Shaft extension length (left end)	21±1 mm
	Shaft center-to-center distance	47 mm
	Shaft extension length (right end)	15±1 mm
	Motor body square dimension	60×60 mm square
	Mounting face dimension	50±0.3 mm square
	End boss depth	1.6 mm
	Output shaft diameter	∅36 -0/-0.05 mm
	Shaft end boss height	15±0.2 mm
	Datum B (side view)	Datum B
	Mounting hole diameter with tolerance (4 places)	4×∅5 +0.3/-0 mm
	Section view label	Section B-B
	Double flat shaft diameter (2 places)	2×∅8 +0/-0.013 mm
	Double flat dimension (2 places)	2×7.5±0.1 mm
Mechanical View 2	Shaft Diameter	∅19.05
	Mounting Hole 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.