

PRODUCT DATASHEET

ES-ST-14H2028-050-4BL

Hybrid Stepper Motors

Hybrid Stepper Motors | 35 mm Hybrid Stepper Motor Series - ES-ST-HY04

Product Overview

Hybrid Stepper Motors with holding Torque 0.15 N·m, continuous Rated Current 0.5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	0.15	N·m
Continuous Rated Current	0.5	A
Step Angle	1.8	°
Body Length	28	mm
Weight	0.14	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	20 ±10%	Ω
Insulation Class	B	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	0.15	Nm	
ELECTRICAL			
Continuous Rated Current	0.5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	20 ±10%	Ω	Measurement: 20 °C
Phase Inductance	23 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	28	mm	
Weight	0.14	kg	

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Top horizontal length	24±1 mm
	Middle horizontal length	27 mm
	Right side horizontal length	10±1 mm
	Boss height or interface depth	2 mm
	Left mounting interface length	15±0.2 mm
	Datum or section marker	Section B-B datum markers
Mechanical View 2	Motor housing square dimension	35mm square
	Mounting face dimension	26±0.1mm square
	Shaft diameter with tolerance	ϕ22 +0/-0.05
	Mounting hole specification	4×M3 threaded holes, countersink depth 3mm minimum
Mechanical View 3	Central shaft mounting hole diameter	Φ19.05 mm
	Mounting threaded holes specification	2 holes, M2.5 thread

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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.