

PRODUCT DATASHEET

ES-FM-H01-OD050-TOP3NM-001

Frameless Torque Motor

Hollow Shaft Frameless Torque Motors | ES-FM-H01-OD050 Hollow-Shaft 50 mm Frameless Torque Motor Series

Product Overview

Frameless Torque Motor with rated Speed 5000 rpm, continuous Rated Output Power 157 W and lead Wire Length 100 mm, no connector.

Typical ApplicationsRobot joints | Direct-drive rotary axes | Integrated actuator modules

Configuration ContextTemperature sensor: NTC

Key Specifications

PARAMETER	VALUE	UNIT
Rated Speed	5000	rpm
Continuous Rated Output Power	157	W
Lead Wire Length	100 mm, no connector	
Line-to-Line Inductance	0.47 ± 20% / 0.47	mH
Line-to-Line Resistance	0.93 ± 10% / 0.93	Ω
Maximum Rotational Speed	6200 ± 10%	rpm
Maximum Speed	6200	rpm
Motor Outer Diameter	50	mm
Motor Version	Version P	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated Speed	5000	rpm
Continuous Rated Output Power	157	W
Maximum Rotational Speed	6200 $\pm$ 10%	rpm
ELECTRICAL		
Line-to-Line Inductance	0.47 $\pm$ 20% / 0.47	mH
Line-to-Line Resistance	0.93 $\pm$ 10% / 0.93	Ω
Operating Supply Voltage	48	V DC
Rated Current	3.7	A
THERMAL		
Temperature Sensor	NTC	
MECHANICAL		
Motor Outer Diameter	50	mm
Rotor Diameter	30	mm
Stator Core Height	8	mm
INTEGRATION		
Lead Wire Length	100 mm, no connector	
CONFIGURATION		
Motor Version	Version P	
ADDITIONAL SPECIFICATIONS		
Maximum Speed	6200	rpm

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Motor Outer Diameter	50	mm
Rotor Diameter	30	mm
Stator Core Height	8	mm
Lead Wire Length	100 mm, no connector	

[View Product Online](#) [Request Engineering Data](#) [Request a Quote](#)

- 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.