

PRODUCT DATASHEET

ES-FM-H01-OD043-TOP2NM-001

Frameless Torque Motor

Hollow Shaft Frameless Torque Motors | ES-FM-H01-OD043 Hollow-Shaft 43 mm Frameless Torque Motor Series

Product Overview

Frameless Torque Motor with rated Speed 3700 rpm, continuous Rated Output Power 77 W and lead Wire Length 100 mm, no connector.

Typical Applications

Robot joints | Direct-drive rotary axes | Integrated actuator modules

Configuration Context

Temperature sensor: NTC

Key Specifications

PARAMETER	VALUE	UNIT
Rated Speed	3700	rpm
Continuous Rated Output Power	77	W
Lead Wire Length	100 mm, no connector	
Line-to-Line Inductance	0.85 ± 20% / 0.85	mH
Line-to-Line Resistance	1.6 ± 10% / 1.6	Ω
Maximum Rotational Speed	5000 ± 10%	rpm
Maximum Speed	5000	rpm
Motor Outer Diameter	43	mm
Motor Version	Version P	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated Speed	3700	rpm
Continuous Rated Output Power	77	W
Maximum Rotational Speed	5000 $\pm$ 10%	rpm
ELECTRICAL		
Line-to-Line Inductance	0.85 $\pm$ 20% / 0.85	mH
Line-to-Line Resistance	1.6 $\pm$ 10% / 1.6	Ω
Operating Supply Voltage	48	V DC
Rated Current	2.2	A
THERMAL		
Temperature Sensor	NTC	
MECHANICAL		
Motor Outer Diameter	43	mm
Rotor Diameter	25	mm
Stator Core Height	11	mm
INTEGRATION		
Lead Wire Length	100 mm, no connector	
CONFIGURATION		
Motor Version	Version P	
ADDITIONAL SPECIFICATIONS		
Maximum Speed	5000	rpm

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Motor Outer Diameter	43	mm
Rotor Diameter	25	mm
Stator Core Height	11	mm
Lead Wire Length	100 mm, no connector	

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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.