

Motor Specifications

Source: User-provided specification image

Basic Parameters		
Parameter	Unit	Value
Motor type		Brushless servo motor
Voltage range	V	12~24
Peak torque	N.M	0.22
Rated torque	N.M	0.08
Peak current	A	2.5
Continuous current	A	< 0.7
Instantaneous power	W	60
Rated power	W	16.8
Outer diameter	mm	40
Minimum inner diameter	mm	11
Height	mm	24
Weight	g	81.8

Motor Parameters		
Parameter	Unit	Value
Number of pole pairs	Pair	14
Wire resistance	Ohm	2.27
Wire inductance	uH	372.6
Torque constant	N.M/A	0.076
Speed constant	v/krpm	8

Control Accuracy Parameters		
Parameter	Unit	Value
Maximum speed	rpm	3100
Minimum speed	rpm	0.01
Encoder type		Single-turn absolute encoder
Encoder resolution	bit	16
Repeated positioning accuracy	°	±0.006
Absolute accuracy	°	±0.006
Rate of speed change	%	< ±0.5
Speed resolution	Hz	0.0001

Dynamic Parameters		
Parameter	Unit	Value
Rotor inertia	kg·mm²	10.95
Bearing type		6702
Bearing accuracy		P5
Dynamic load rating Cr	kN	0.94
Static load rating Cor	kN	0.585
Working temperature range	°C	5~50
Noise	dB	< 50