

Parameter	Unit	Value
Basic Parameter		
Motor type		Brushless servo motor
Voltage range	V	12~24
Peak torque	N.M	0.05
Rated torque	N.M	0.02
Peak current	A	2
Continuous current	A	<0.4
Instantaneous power	W	48
Rated power	W	9.6
Outer diameter	mm	28.5
Minimum inner diameter	mm	4
Height	mm	20.7
Weight	g	33.8
Motor Parameter		
Number of pole pairs	Pair	7
Wire resistance	Ohm	1.7
Wire inductance	uH	236
Torque constant	N.M/A	0.023
Speed constant	v/krpm	2.4
Control Accuracy Parameter		
Maximum speed	rpm	7000
Minimum speed	rpm	0.5
Encoder type		Single turn absolute value
Encoder resolution	bit	12
[Position] Repeated positioning accuracy	deg	+0.1
[Position] Absolute accuracy	deg	+0.1
[Speed] Rate of speed change	%	<+/-1
[Speed] Speed resolution	Hz	0.2
Dynamic Parameter		
Rotor inertia	kg*mm^2	2.081
Bearing type		MR117
Bearing accuracy		P5
Bearing dynamic load Cr	kN	0.451
Bearing static load C0r	kN	0.206
Working temperature range	deg C	5~50
Noise	dB	<50
Interface Parameter		
Number of interfaces		3
Control interface		CAN
Configuration interface		TTL
Supported modes (may vary with firmware version)		
Position mode		Position speed current three closed loop mode
Speed mode		Speed closed loop mode
Current(torque) mode		Torque closed loop mode
Low speed mode		Use this mode below 10 rpm
Knob mode		Used to build smart knob