

H7213 Hollow Brushless Servo Motor

Outrunner brushless motor, with driver and serial ports
Cables run-through the hollow hole
Application: Humanoid Robots

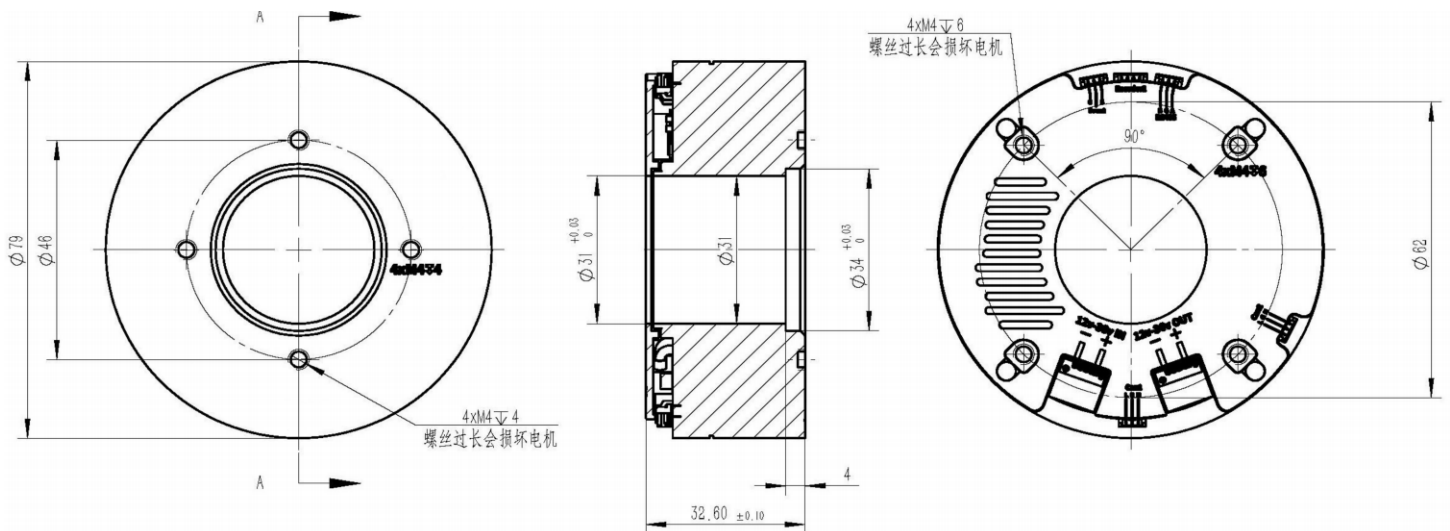


(mounting face side)



(back side)

Dimension



Specification

Basic Parameter	Unit	Type:HG7213
Motor type		Brushless Servo Motor
Voltage range	V	12~36
Peak torque	N.m	2.5
Rated torque	N.m	1
Peak current	A	10
Continuous current	A	<1.5
Instantaneous power	W	360
Rated power	W	54
Outer diameter	mm	79
Minimum inner diameter	mm	31
Height	mm	32.6
Weight	g	420
Motor Parameter		
Number of pole pairs	Pair	21
Wire resistance	ohm	2
Wire inductance	uH	1000
Torque constant	N.M/A	0.23
Speed constant	v/krpm	24
Control Accuracy Parameter		
Maximum speed	rpm	800
Minimum speed	rpm	0.01
Encoder type		Single turn absolute value
Encoder resolution	bit	20
Repeated positioning accuracy	°	±0.004
Absolute accuracy	°	±0.004
Rated of speed change	%	<±0.5
Speed resolution	Hz	0.0001
Dynamic Parameter		
Rotor Inertia	Kgcm ²	174.4
Bearing type		61807
Bearing accuracy		P5
Bearing dynamic load Cr	kN	4.55
Bearing static load COr	kN	3.6
Working temperature range	°C	5~50
Noise	dB	<50
Interface Parameter		
Number of interface		7
Control interface①		CAN&CAN FD
Control interface②		PWM
Configuration interface		RS485
The Second encoder interface		Only support our hollow encoder module
Support Mode (changes with fireware upgrade)		
Position mode		Position speed current three closed loop mode
Speed mode		Speed closed loop mode
Current(torque)mode		Torque closed loop mode