

HB4307 Hollow Brushless Servo Motor

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

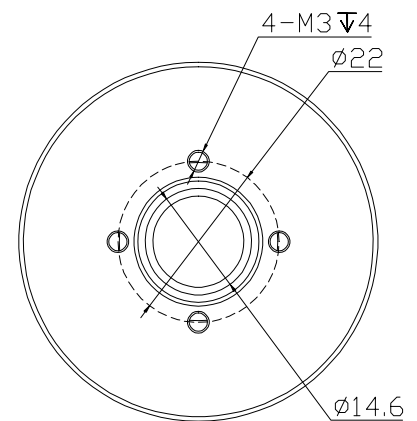
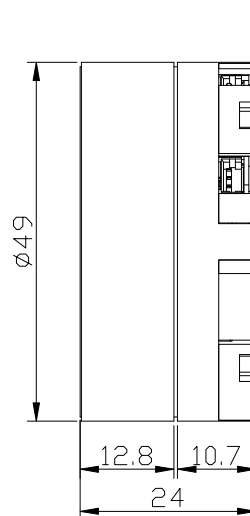
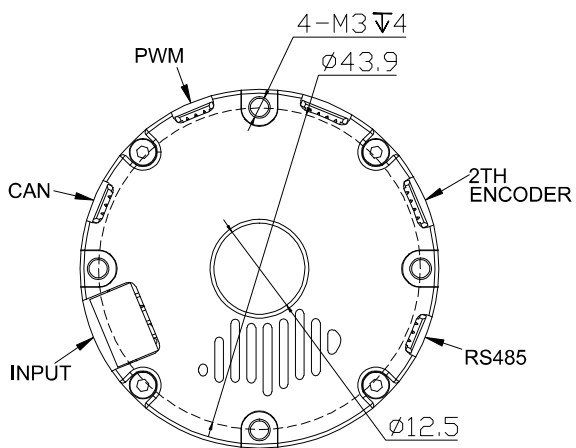


(mounting face side)



(back side)

Dimension



Specification

Basic Parameter	Unit	Type:HB4307
Motor type		Brushless Servo Motor
Voltage range	V	12~24
Peak torque	N.m	0.45
Rated torque	N.m	0.15
Peak current	A	6
Continuous current	A	<1
Instantaneous power	W	144
Rated power	W	24
Outer diameter	mm	49
Minimum inner diameter	mm	12.5
Height	mm	24
Weight	g	115
Motor Parameter		
Number of pole pairs	Pair	14
Wire resistance	ohm	0.86
Wire inductance	uH	300
Torque constant	N.M/A	0.076
Speed constant	v/krpm	8
Control Accuracy Parameter		
Maximum speed	rpm	2700
Minimum speed	rpm	0.01
Encoder type		Single turn absolute value
Encoder resolution	bit	16
Repeated positioning accuracy	°	±0.006
Absolute accuracy	°	±0.006
Rated of speed change	%	<±0.5
Speed resolution	Hz	0.0001
Dynamic Parameter		
Rotor Inertia	Kgcm ²	20.52
Bearing type		6703
Bearing accuracy		P5
Bearing dynamic load Cr	kN	1
Bearing static load C0r	kN	0.66
Working temperature range	°C	5~50
Noise	dB	<50
Interface Parameter		
Number of interface		5
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