

HB3507 Hollow Brushless Servo Motor

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

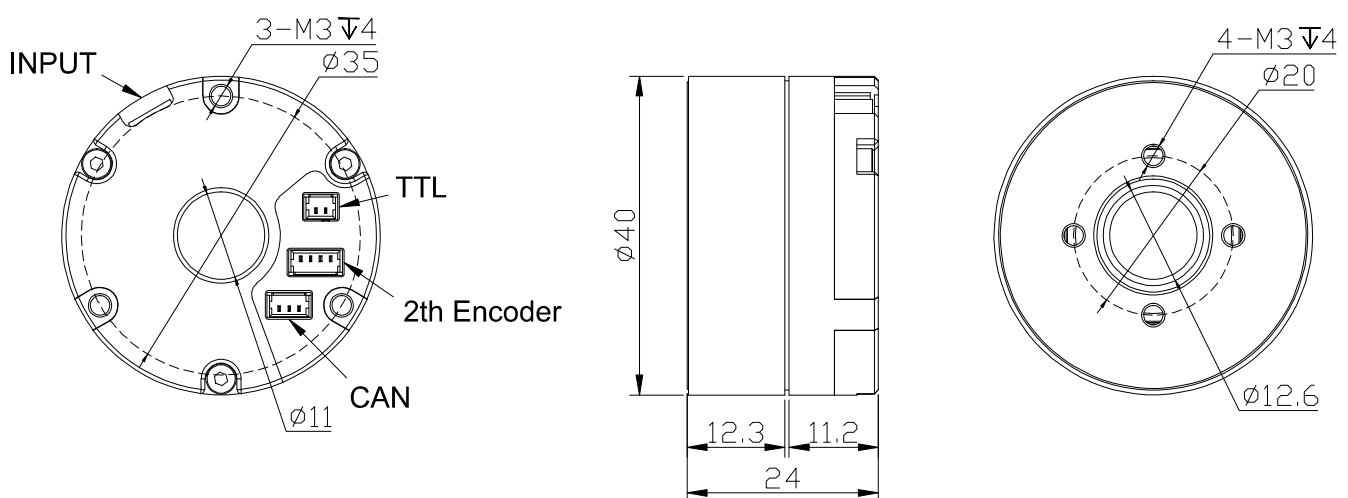


(mounting face side)



(back side)

Dimension



Specification

Basic Parameter	Unit	Type:HB3507
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 Parameter

Number of pole pairs	Pair	14
Wire resistance	ohm	2.27
Wire inductance	uH	372.6
Torque constant	N.M/A	0.067
Speed constant	v/krpm	8

Control Accuracy Parameter

Maximum speed	rpm	3100
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	10.95
Bearing type		6702
Bearing accuracy		P5
Bearing dynamic load Cr	kN	0.94
Bearing static load C0r	kN	0.585
Working temperature range	°C	5~50
Noise	dB	<50

Interface Parameter

Number of interface		4
Control interface		CAN&CAN FD
Configuration interface		TTL
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