

Chihai Motor CHF-FK180SH DC 6V 7800RPM High Speed Motor Micro DC 180 Motor High Speed With Encoder



Description:

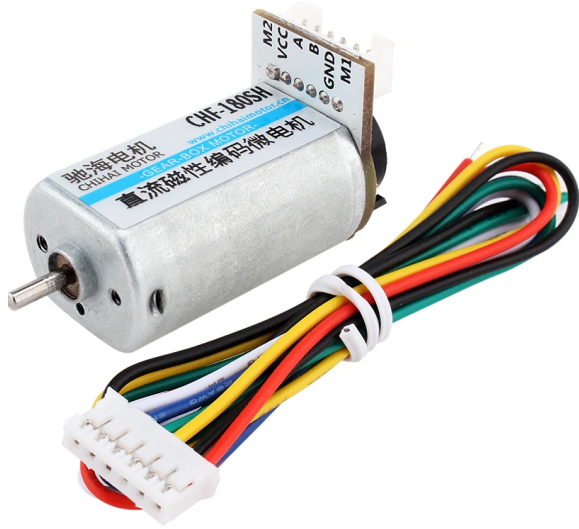
Chihai Motor CHF-FK180SH DC 6V 7800RPM High Speed Motor Micro DC 180 Motor High Speed With Encoder

Specification:

Brand	Chihai motor
Product Type	CHF-FK180SH-12160 Mini Dc Motor High speed encoder motor for Toy DIY
Shaft diameter	2mm
Shaft Length	8.5mm
Voltage	DC 6V
No load speed	7800rpm
No load current	0.10A
At stall torque	10.55mN.m
At stall current	≥2.1A
Weight	About 40g
Wiring specification	PH2.0-6PIN terminal connector
Encoder Specifications	AB dual phase encoder 11 line basic signal voltage 3.3 V or 5.0 V
Applications	Blood pressure pump, camcorder, electric shaver, toy, garbage disposal machine, stage light stand, coffee machine, automatic actuator, boiler valve, washing machine

Feature:

- AB phase dual hall encoding board with built-in pull-up resistance.
- Metal gear reduction mechanism: high strength, stable transmission, high efficiency and high torque.
- Frequent blocking or frequent start-up and upset are not recommended in the process of use, which will significantly reduce the service life.



Voltage: DC 6.0V

No load speed	No load current	AT stall torque	AT stall current
7800 rpm	0.10 A	10.55 mN.m	≥2.1 A

AT MAXIMUM EFFICIENCY

Speed	Current	Torque	Output Powe	Efficiency
6282 rpm	0.41 A	2.05 mN.m	1.4 W	54.39%

AT MAXIMUM OUTPUT

Speed	Current	Torque	Output Powe	Efficiency
3900 rpm	0.91 A	5.27mN.m	2.16 W	39.61%

Model: CHF-FK180SH-12160 ABHL DC Encoder Motor**Voltage: DC 12.0V**

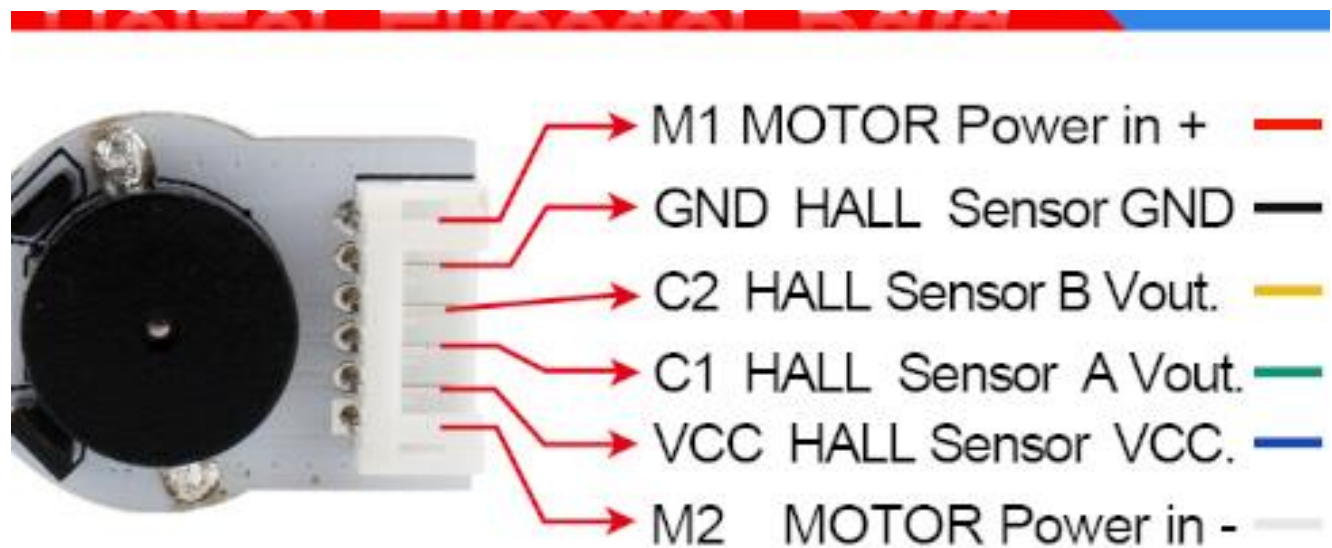
No load speed	No load current	AT stall torque	AT stall current
16000 rpm	0.14A	20.92 mN.m	≥4.0 A

AT MAXIMUM EFFICIENCY

Speed	Current	Torque	Output Powe	Efficiency
13316 rpm	0.69 A	3.51 mN.m	4.9 W	58.73 %

AT MAXIMUM OUTPUT POWER

Speed	Current	Torque	Output Powe	Efficiency
8000 rpm	1.79 A	10.46 mN.m	8.77 W	40.73 %



Encoders Conflg

Pulse outputs of rotation:	Basic pulse 11PPR x gear reduction ratio
Holzer power supply voltage:	DC 3.3V/DC 5.0V
Basic function:	With the pull-up shaping resistor, the single-chip microcomputer can be used
Encoder Interface type:	PH2.0 (Standard wiring)
Output signal type:	Square wave AB phase
Response frequency	100kHz
Basic pulse number:	11 PPR
poles of magnetic ring:	22 poles(11 pairs of poles)