

INDUSTRIAL PRODUCT DATASHEET

Feetech HL-3615-C002 6V 2.5Kg Servo

The Feetech HL-3615-C002 is a high-torque, high-precision servo with comprehensive feedback and flexible communication interfaces.

SKU

100039104

UPDATED

2026-07-08 08:38:34

PRICE

\$40.00(Excl. VAT)



Overview



The Feitech HL-3615-C002 is a high-performance servo featuring a coreless motor and metal gears, delivering up to 3.5kg.cm torque and precise 360° control with 0.088° resolution. It offers comprehensive feedback on load, position, speed, voltage, current, and temperature, along with electronic protection and flexible serial communication up to 1Mbps.

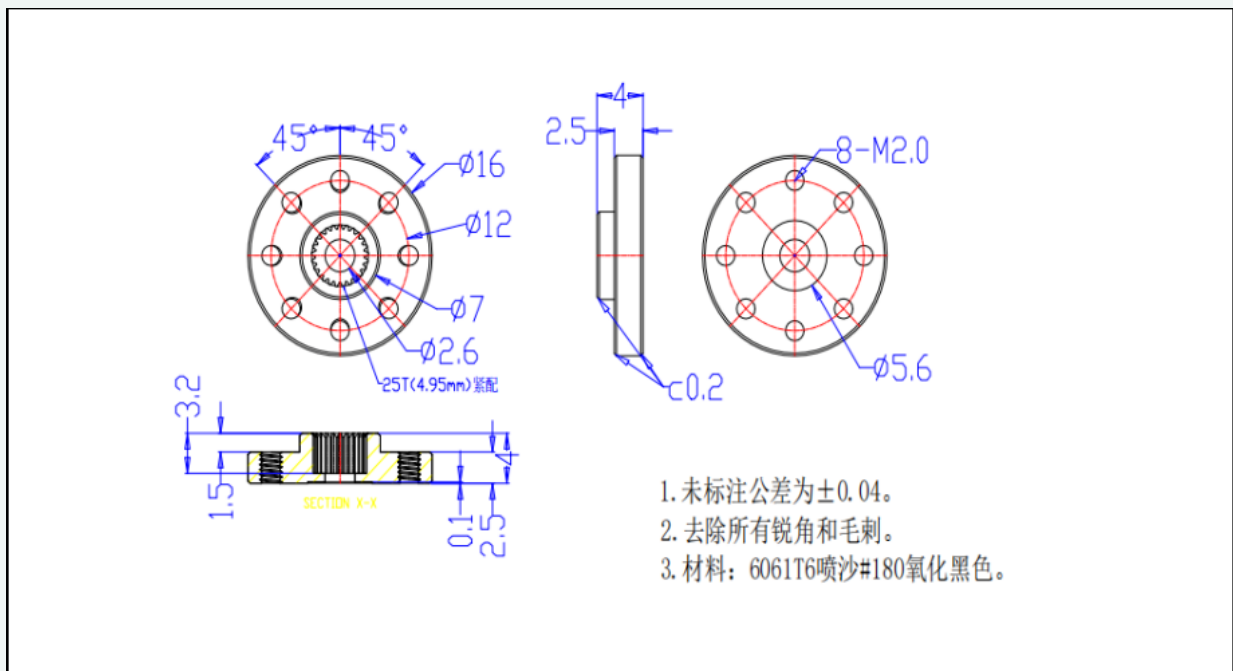
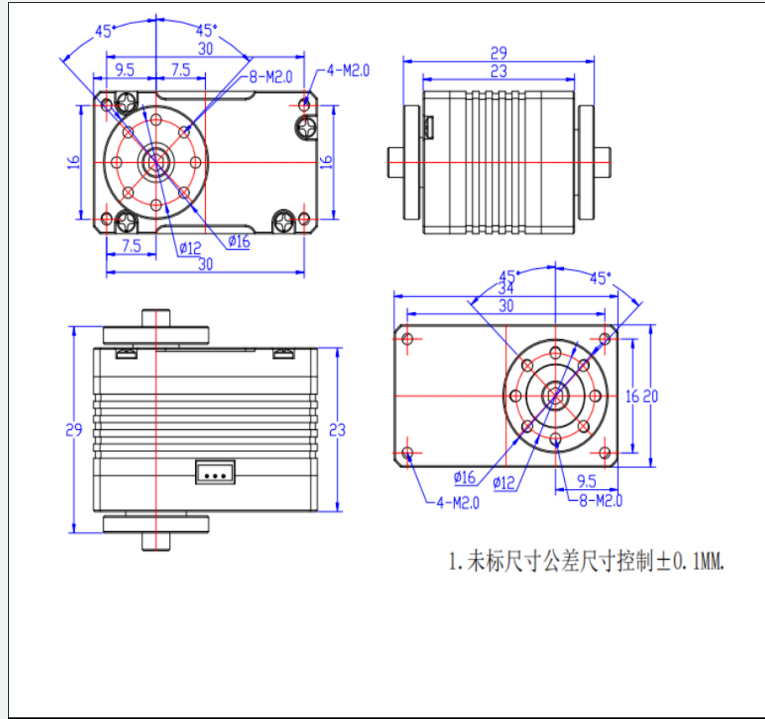
Key Features

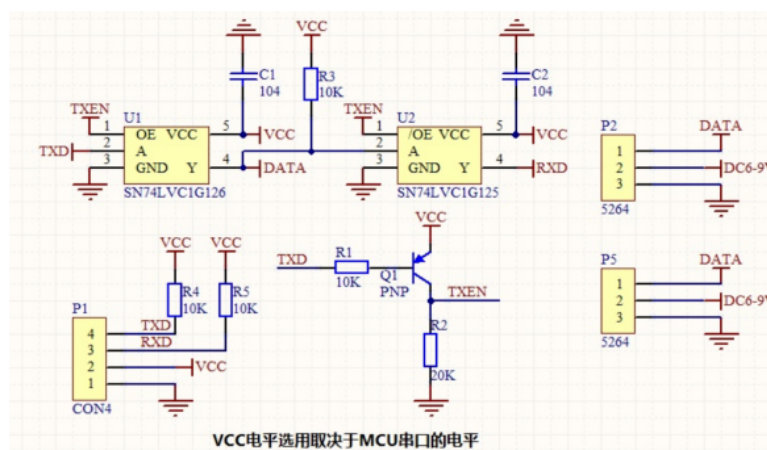
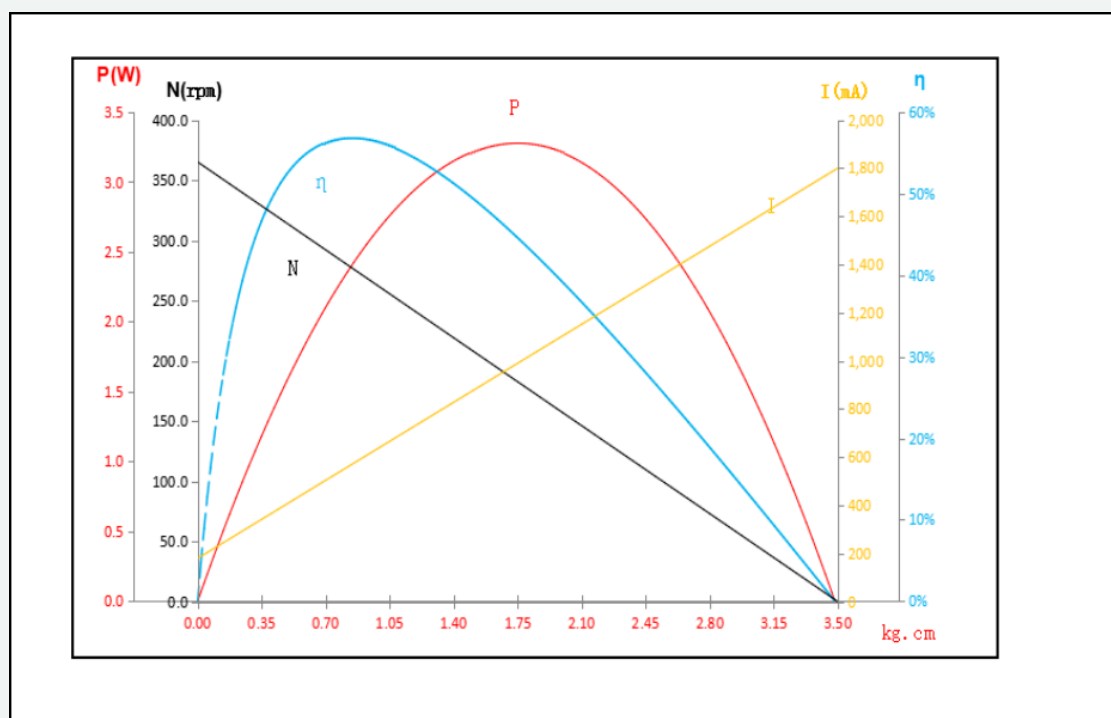
- **High-performance Motor and Gear System:** Equipped with a coreless motor and metal gears, delivering high torque (2.5kg.cm @ 6V, 3.5kg.cm @ 7.4V) and low no-load current (140mA @ 6V, 180mA @ 7.4V).
- **High-precision Control:** Features a 12-bit magnetic encoder for 360° absolute position control with 0.088° resolution, supporting multiple operating modes.
- **Feedback:** Provides comprehensive feedback on load, position, speed, input voltage, current, and temperature.
- **Electronic Protection:** Includes overload, overvoltage, and overheat protection to ensure reliable operation.
- **Flexible Communication and Interface:** Supports half-duplex asynchronous serial communication (38400bps to 1Mbps) with customizable baud rates and IDs, using a PH1.25-3P interface.

Specification

Product	Feetech HL-3615-C002 6V 2.5Kg Servo		
Dimensions	34×20×23 mm		
Weight	35.8±2 g		
Voltage Range	5V-8.4V		
Operating Voltage	6V (Standard)	7.4V (High Voltage)	
No-Load Speed	0.034 sec/60° (290RPM)	0.027 sec/60° (365RPM)	
Stall Torque	2.5kg.cm	3.5kg.cm	
Rated Load	0.8kg.cm		1.2kg.cm
Operating Temperature	-20℃~60℃		

Hardware Overview







Part List

HL-3615-C002	x1
M2*4	x8
15cm -1.25mm to 5264 terminal wire	x1
20cm -1.25mm terminal wire	x1

Compliance & Logistics

HSCODE	8501109990
USHSCODE	8501106080
UPC	
EUHSCODE	8501109390
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Feetech-HLS3615M-C002-p-6704.html>
- [Datasheet](#)

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