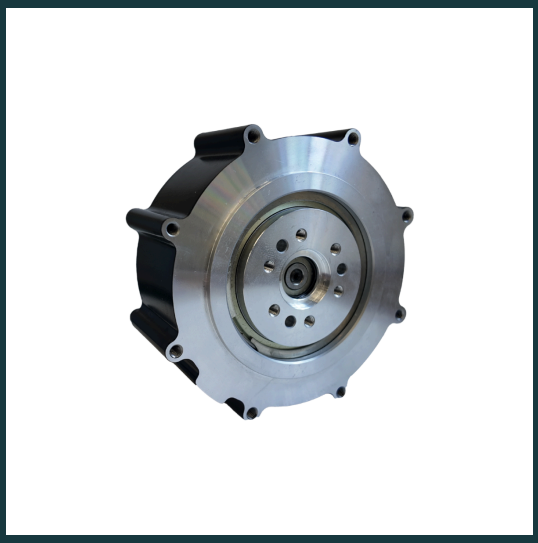
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INDUSTRIAL PRODUCT DATASHEET

RobStride 03 QDD 60N.m integrated actuator module

RobStride 03 QDD 60N.m integrated actuator module: 880g, four-in-one design with dual encoders, 60 N.m peak torque, 9:1 reduction ratio, 15-60V input, and development tools.

SKU	UPDATED	PRICE
100081690	2026-10-21 06:58:53	$225.00(Excl. VAT)



Overview

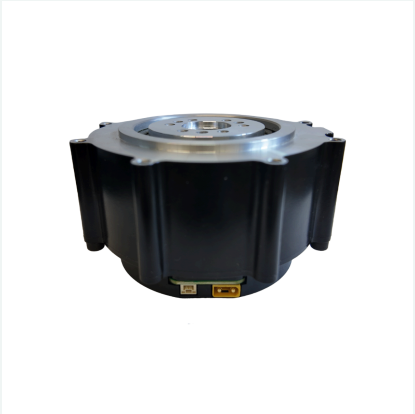


The RobStride 03 QDD 60N.m integrated actuator module features a four-in-one design integrating driver, motor, planetary reducer, and dual magnetic encoders in a lightweight 880g package. It delivers 60 N.m peak torque with a 9:1 reduction ratio, supports a 15-60V input range, and comes with comprehensive debugging software and sample programs for convenient development.

Key Features

- **Highly-integrated:** Features a four-in-one design integrating driver, motor, planetary reducer, and dual magnetic encoders in a lightweight 880g package.
- **High Torque Density:** Delivers 60 N.m peak torque with a 9:1 reduction ratio, achieving a torque density of 66.67 N.m/kg.
- **Dual Encoder:** Equipped with dual magnetic encoders for high-precision position feedback.
- **Wide Voltage Compatibility:** Supports 15-60V input range (Rated 48V), optimized for modern battery-powered robots.
- **Convenient Development:** Comes with comprehensive debugging software, modules, and sample programs for easy development.
- **Versatile Applications:** Suitable for robotics, consumer products, and automation control applications.

Product Gallery





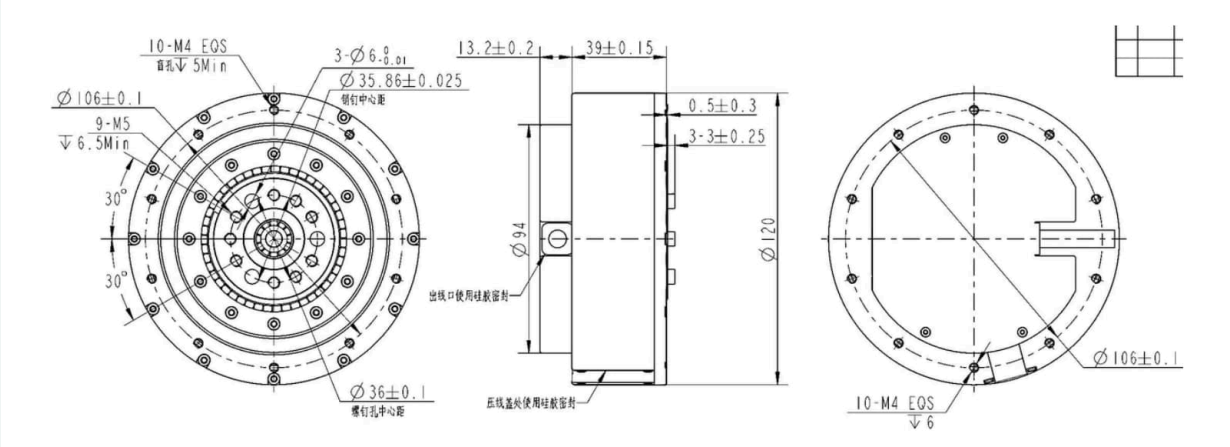


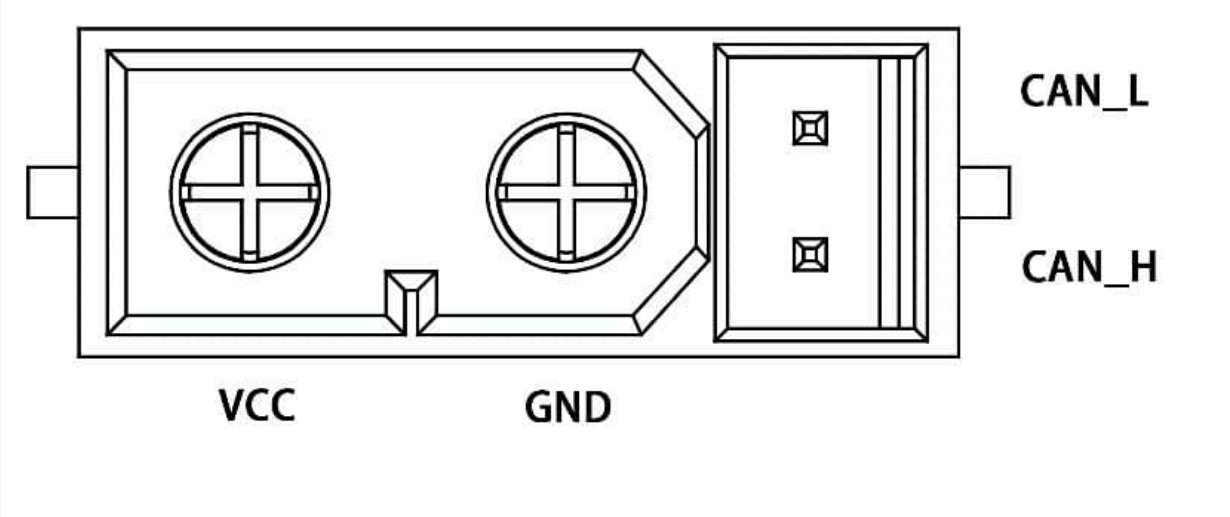


Specification

Item	Specification
Product	RobStride 03 Motor
Voltage Range	15-60V (Rated 48V)
Operating Temperature	-20℃~50℃
Operating Humidity	5%~85%
Storage Temperature	-30℃~70℃
Mechanical Dimension	106mm x 106mm x 56mm
Communication Interface	CAN
Gear Ratio	9:1
Rated Output Power	380W ± 10%
Rated Torque	20 Nm
Peak Torque	60 Nm
Poles	42
Phases	3
Driver Method	FOC
Encoder	Magnetic Encoder x 2
Weight	880g ± 20g
Protection Level	IP52 (Supporting customize IP67)
Terminal Interface	XT30 + GH1.25

Hardware Overview





Part List

RobStride 03 Motor	x1
XT30 + GH1.25 Cable	x1

Compliance & Logistics



HSCODE	8501310000
USHSCODE	8501316000
UPC	
EUHSCODE	8501109390
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/Robostride-03-Actuator-p-6774.html
- Datasheet
- 3D Model
- Wiki

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