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INDUSTRIAL PRODUCT DATASHEET

RobStride 05 QDD 5.5N.m integrated actuator module

The RobStride 05 QDD 5.5N.m integrated actuator module offers a highly-integrated 191g design with dual 14-bit absolute magnetic encoders, 46x46x44mm compact size, 15-60V compatibility, and 5.5 N.m peak torque.

SKU	UPDATED	PRICE
100035437	2026-10-12 02:55:33	$110.00(Excl. VAT)



Overview



The RobStride 05 QDD 5.5N.m integrated actuator module is a highly-integrated, ultra-lightweight 191g design combining motor, driver circuitry, planetary reducer, and dual magnetic encoders. Its compact 46x46x44mm dimensions with single port wiring and 15-60V input support make it ideal for space-constrained joints, delivering 5.5 N.m peak torque with a 7.75:1 reduction ratio and closed-loop temperature control.

Key Features

- **Highly-integrated** Includes motor, driver circuitry, planetary reducer, and dual magnetic encoders in an ultra-lightweight 191g design (3-in-1)
- **Compact Design** Dimensions of only 46x46x44mm with single port wiring, ideal for space-constrained joints
- **Dual Encoder** Features 14-bit absolute magnetic encoders for precise position feedback
- **Wide Voltage Compatibility** Supports 15-60V input range, compatible with various battery systems (Rated 48V)
- **Efficient Performance** Delivers 5.5 N.m peak torque with a 7.75:1 reduction ratio and closed-loop temperature control

Product Gallery





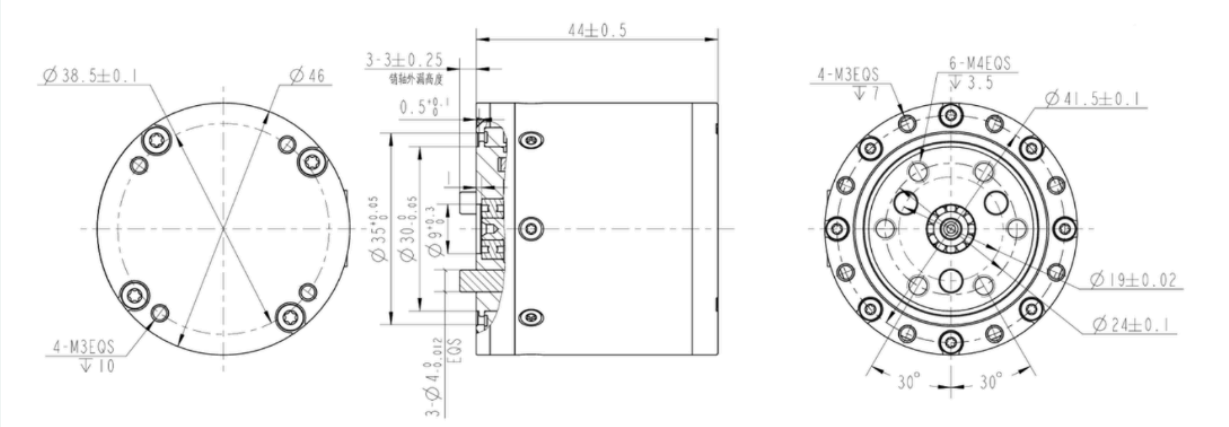


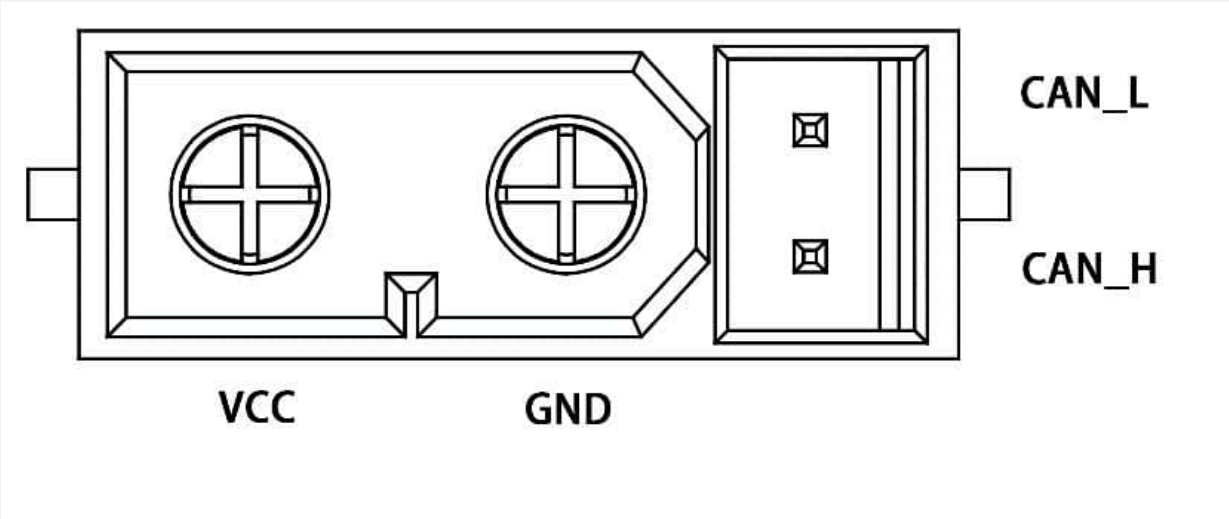


Specification

Product	RobStride 05 Motor
Voltage Range	15-60V
Operating Temperature	-20℃~50℃
Mechanical Dimension	46mm x 46mm x 44mm
Communication Interface	CAN
Gear Ratio	1:7.75
Rated Output Power	17 W (Calculated based on Rated Load 1.6N.m @ 100rpm)
Rated Torque	1.6Nm
Peak Torque	5.5 Nm
Pole pair	10

Hardware Overview





Part List

RobStride 05 Motor	x1
XT30(2+2) 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-05-Actuator-p-6666.html
- Datasheet
- User Manual
- 3D model
- wiki

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