

Product Specification

1. Product Overview

1.1 Product Name: Thigh-Shank Joint Motor

1.2 Product Model: RU-JTM-90-065-110-90-D72-E

1.3 Product Description:

- The Joint Motor is a highly modular and integrated actuator that incorporates a frameless torque motor, reducer, and encoder. It is widely used in high-dynamic scenarios such as robotic arms, humanoid robots, and multi-legged robots.
- Rated Power:1.5KW
- Multiple Control Modes: Position / Speed / Torque Control
- Comprehensive Protection Mechanisms
- Operating Temperature:-40°C to +85°C
- Supported Communication Protocol:EtherCAT

2. Technical Specifications

2.1 Parameter Table

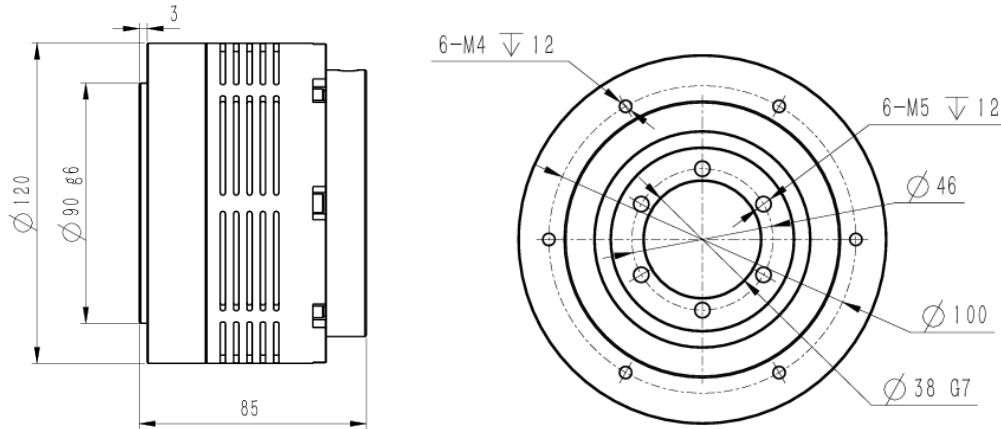
	Item	Parameter
Parameter	Rated Voltage	DC 72v
	Rated Power	1.5KW
	Peak Power	4.5KW
	Rated Speed	135rpm
	Maximum Speed	300rpm
	Continuous Stall Torque	102N.m
	Peak Torque	418N.m
	Rated Current	18A
	Peak Current	100A
	Gear Ratio	1:18
	Communication Protocol	EtherCat
	Weight	3kg
	Operating Temperature	-40°C ~ +85°C

2.2 Interface Definition Table

Category	Interface No.	Number of Wires	Interface Definition	Remarks
Power	X01	3	DC Voltage Input	U/V/W
Encoder	X02	7	Encoder Interface	5v/GND/485+/485-/B+/B GND/PE

3. Dimensions and Appearance

3.1 Dimension Drawing



3.2 Appearance Drawing

