



RMD V2 Series Product Manual

☎ **0512-36863451**

✉ Info@myactuator.com

🌐 www.myactuator.com

📍 4th Floor A6 Block HIIH Huaqiao District
Kunshan City Jiangsu Province China



Chinese Official Website

Professional micro servo system solution service provider

RMD-X Series

Planetary deceleration series servo module

Variety of Models



Lightweight Design

High quality aviation aluminum

Product Advantage

01

✓ Fully enclosed waterproof design

Waterproof / dustproof / corrosion resistant

Stable

✓ Support multiple protections

Over temperature protection / over current protection
Overvoltage protection / overspeed protection

Accurate

✓ Support remote update

Update the latest firmware at any time
Personalized instructions can be customized

Efficient

✓ Support temperature sensor

Support IP54 customization
Waterproof / dustproof / corrosion resistant
Not afraid of harsh environment

Protective





New Pad Structure More Stable

More stable connection
The interface is not damaged after long-term use

Product
Advantage
02



Communication mode CAN RS485

Transmission Faster
Multiple Selection Of Transmission Speed
CAN BUS:500K/1M
RS485:115200/500K
1M/1.5M/2.5M

Product
Advantage
03



High Precision Planetary Reduction Gear Precise Transmission



Stable high-speed operation
High speed



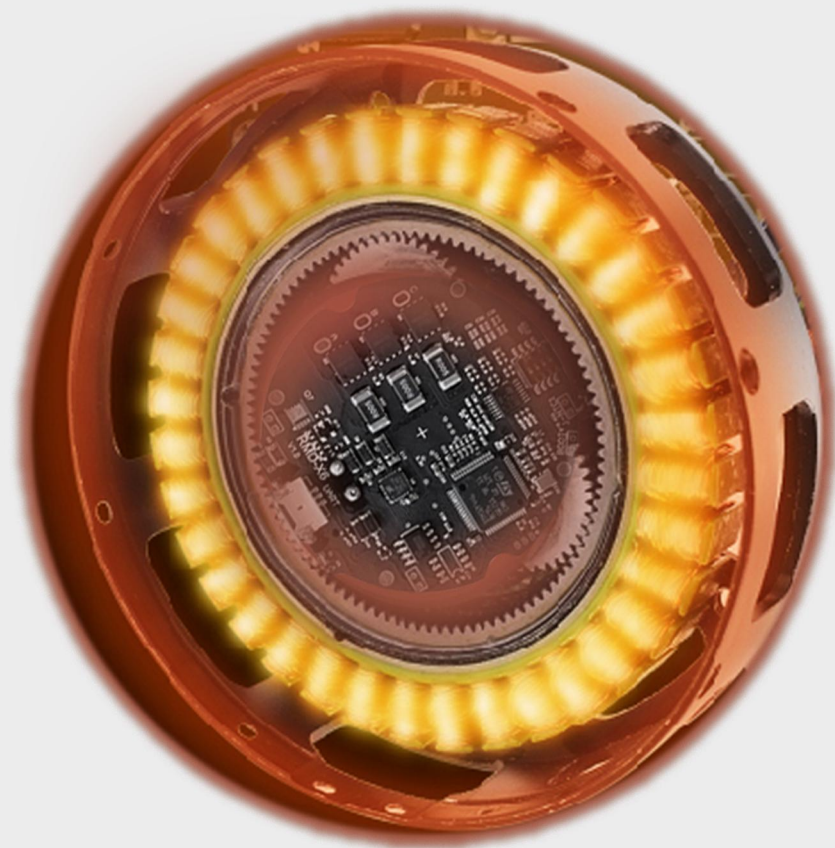


Product Advantage

04

Encoder Multi Turn Angle Recording Function

Reserve Data After Power Off



Product Advantage

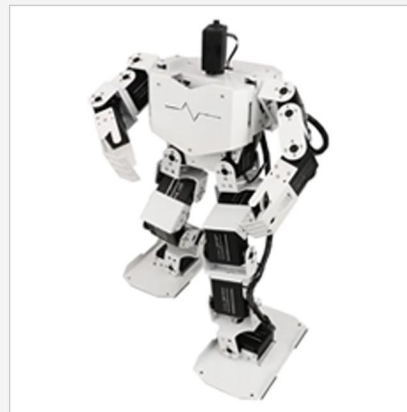
05

New V3.0 Debugging Software

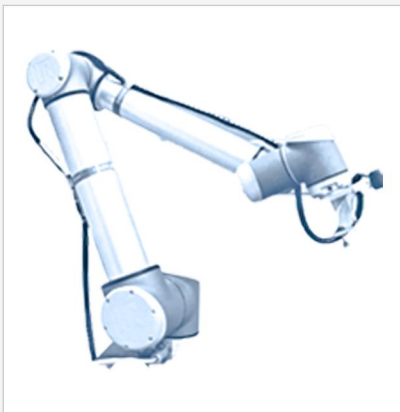
Real-time Data Waveform Display



The Products Wide Application



Humanoid robot



Mechanical arm



Exoskeleton robot



Quadruped Robot



AGV Smart truck



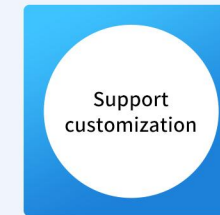
ARU Robot

The Reason To Choose Us

Specializing in robotic actuators and control systems
 Integrated company for design simulation development assembly and sales



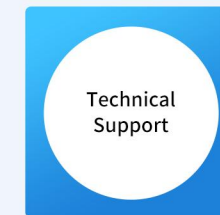
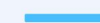
Standardized production processes and a variety of Professional testing equipment



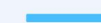
Bulk purchases can enjoy exclusive customization services



Multiple testing and strict screening To ensure product quality



Professional after-sales customer service Provide technical guidance.



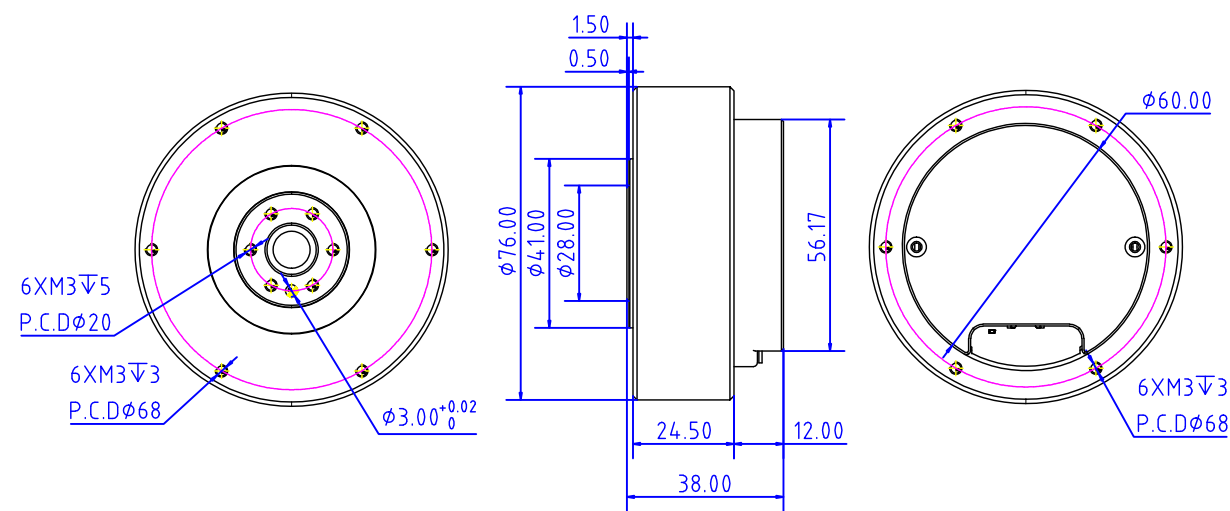
RMD-X6 V2 1:6



>>> PRODUCT PARAMETERS

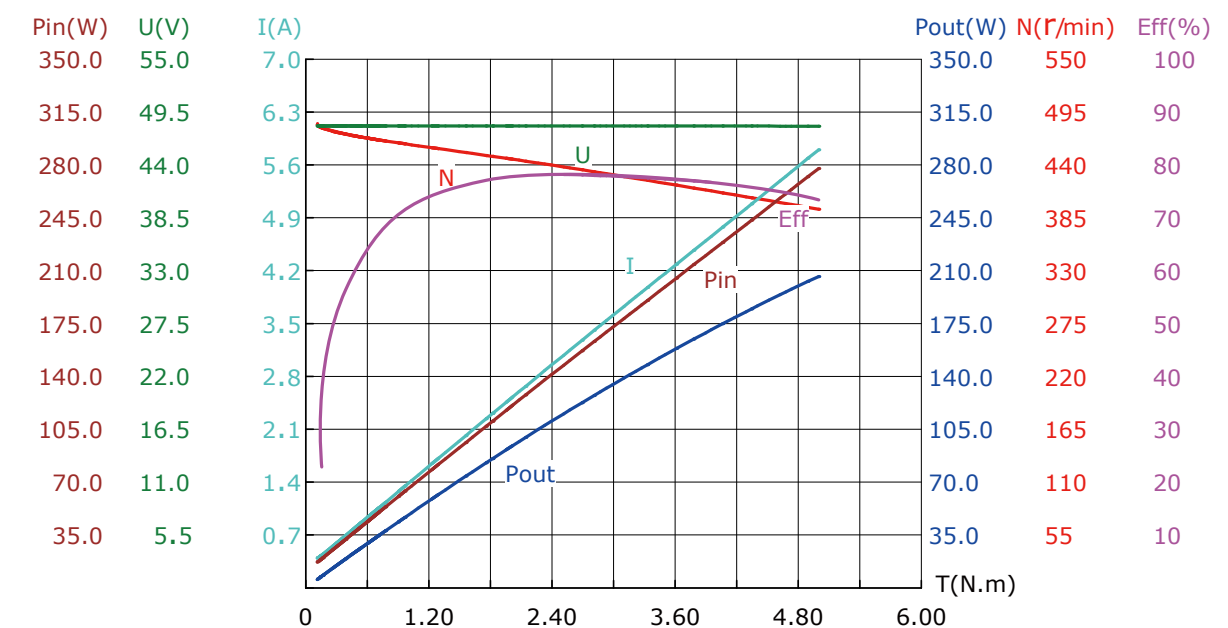
Actuator Name	RMD-X6	
Item No	A00105	
Reducer ratio	6:1	
Input voltage	V	24-48
No-load Speed	rpm	240 @24V
Nominal Speed	rpm	190
Nominal current	A	4
Norminal power	W	70
Nominal torque	N.M	3.5
Motor efficiency	%	70%
Resistance	Ω	0.33
Wire connect	Y	
Phase to phase inductance	mH	0.19
Speed constant	rpm/v	60
Torque constant	N.M/A	0.88
Axial direction payload	N.M	775
Radial direction payload	N.M	1250
Rotor inertia	gcm ²	800
Number of pole pairs	14	
Motor weight	g	335
Environment temperature	$^{\circ}\text{C}$	(-20 ~ 55 $^{\circ}\text{C}$)
Backlash	Arc min	5

>>> INSTALLATION DRAWING



View A/2:1 Locating the Mounting Flange

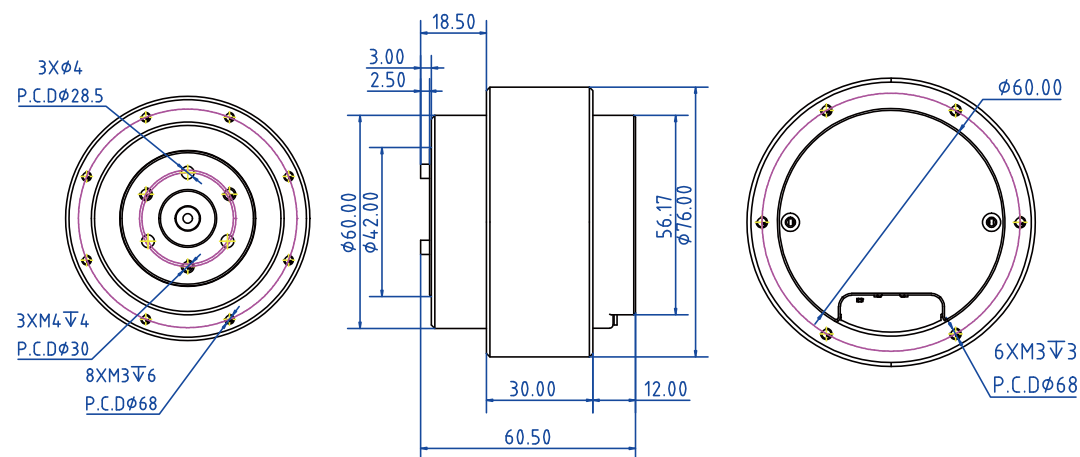
>>> MOTOR CHARACTERISTIC



RMD-X6-S2 V2 1:36



INSTALLATION DRAWING

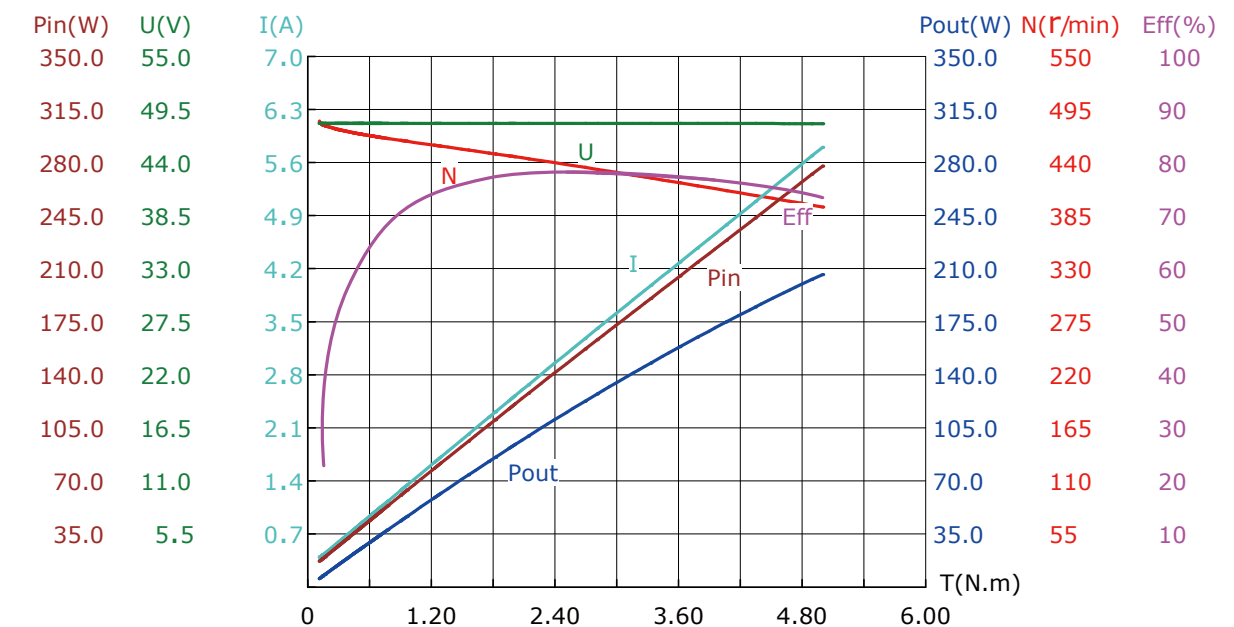


View A/2:1 Locating the Mounting Flange

PRODUCT PARAMETERS

Actuator Name	RMD-X6 S2	
Item No	A00102	
Reducer ratio	36:1	
Input voltage	V	24-48
No -load Speed	rpm	90 @24V
Nominal Speed	rpm	70
Nominal current	A	2.6
Norminal power	W	132
Nominal torque	N.M	18
Motor efficiency	%	70%
Resistance	Ω	0.23
Wire connect	Δ	
Phase to phase inductance	mH	0.14
Speed constant	rpm/v	135
Torque constant	N.M/A	6.92
Axial direction payload	N.M	775
Radial direction payload	N.M	1250
Rotor inertia	gcm ²	800
Number of pole pairs	14	
Motor weight	g	600
Environment temperature	°C	(-20 ~ 55 °C)
Backlash	Arc min	15

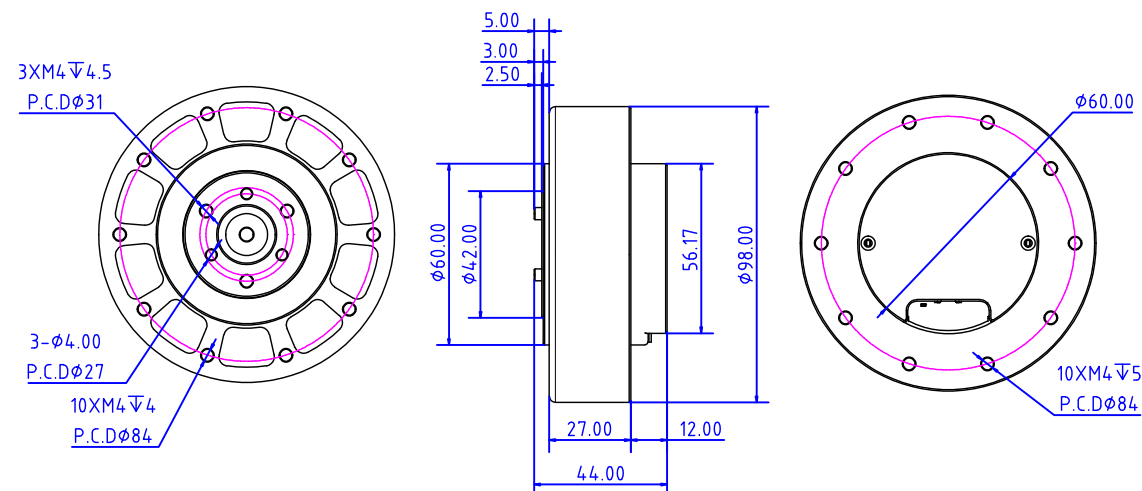
MOTOR CHARACTERISTIC



RMD-X8 V2 1:9



INSTALLATION DRAWING

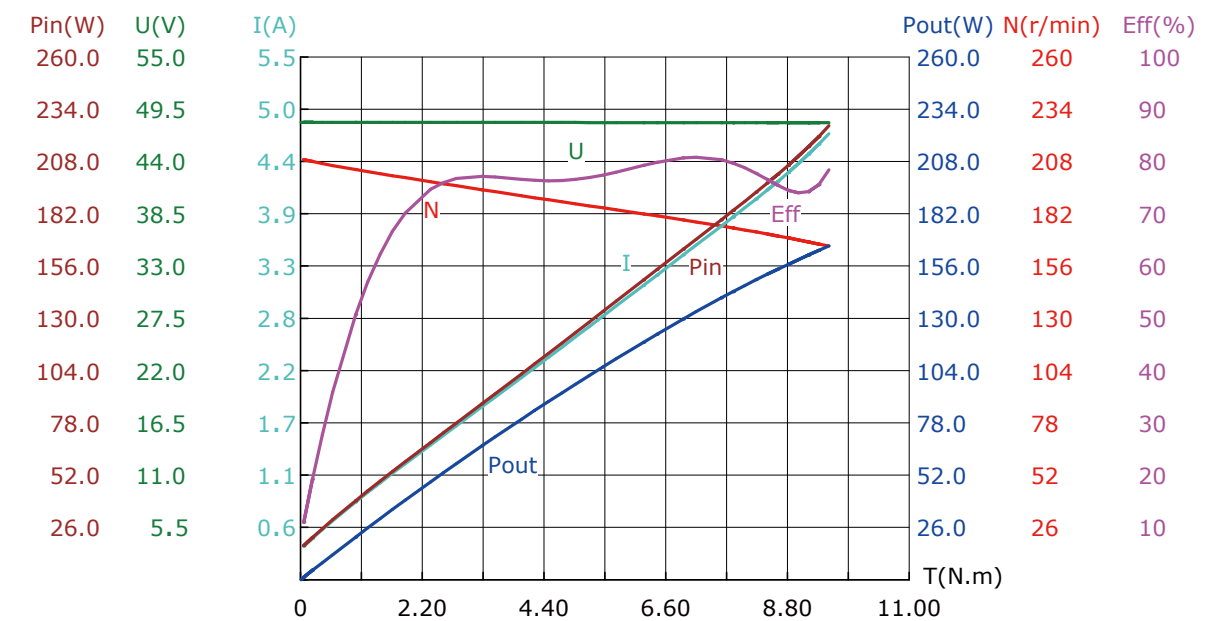


View A/2:1 Locating the Mounting Flange

PRODUCT PARAMETERS

Actuator Name		RMD-X8
Item No		A00083
Reducer ratio		9:1
Input voltage	V	24-48
No-load Speed	rpm	215 @ 48V
Nominal Speed	rpm	170
Nominal current	A	4.3
Norminal power	W	160
Nominal torque	N.M	9
Motor efficiency	%	74%
Resistance	Ω	0.4
Wire connect		Y
Phase to phase inductance	mH	0.22
Speed constant	rpm/v	40
Torque constant	N.M/A	2.09
Axial direction payload	N.M	775
Radial direction payload	N.M	1250
Rotor inertia	gcm ²	2600
Number of pole pairs		21
Motor weight	g	565
Environment temperature	$^{\circ}\text{C}$	(-20 ~ 55 $^{\circ}\text{C}$)
Backlash	Arc min	5

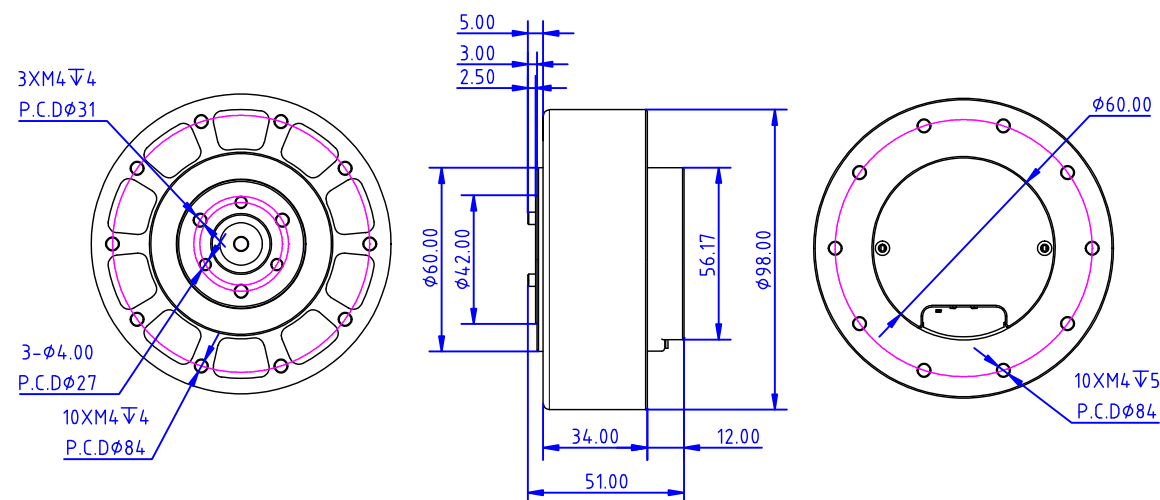
MOTOR CHARACTERISTIC



RMD-X8-Pro V2 1:9



INSTALLATION DRAWING



View A/2:1 Locating the Mounting Flange

PRODUCT PARAMETERS

Actuator Name		RMD-X8 PRO
Item No		A00085
Reducer ratio		9:1
Input voltage	V	24-48
No -load Speed	rpm	160 @48V
Nominal Speed	rpm	122
Nominal current	A	5
Norminal power	W	166
Nominal torque	N.M	13
Motor efficiency	%	77%
Resistance	Ω	0.54
Wire connect		Y
Phase to phase inductance	mH	0.28
Speed constant	rpm/v	30
Torque constant	N.M/A	2.60
Axial direction payload	N.M	985
Radial direction payload	N.M	1250
Rotor inertia	gcm ²	3400
Number of pole pairs		21
Motor weight	g	710
Environment temperature	$^{\circ}\text{C}$	(-20 ~ 55 $^{\circ}\text{C}$)
Backlash	Arc min	5

MOTOR CHARACTERISTIC

