

RMD-X 系列 Series

一体化行星模组

HIGH INTEGRATION PLANETARY ACTUATORS

体积小 | 重量轻 | 集成度高
SMALL SIZE | LIGHT WEIGHT | HIGH INTEGRATION

RMD-X V2



RMD-X V3



RMD-X Design for Bionic Robot



RMD-X V3系列和RMD-X仿生系列

RMD-X V3 series and RMD-X Bionic series

均支持第二编码器

Both support a second encoder

- 第一编码器记录多圈位置，第二编码器记录输出轴位置。
The first encoder records the multiturn position, and the second encoder records the output shaft position.
- RMD-X行星系列，具有高转速、高动态响应性和大扭矩密度，适合仿生机器人高灵敏性的需求。
RMD-X planetary series, with high speed, high dynamic response and high torque density, is suitable for the needs of bionic robots with high sensitivity.
- 过流保护、过温保护、过压保护等多重保护，使得产品使用更安全放心。
Multiple protections such as over-current protection, over-temperature protection, and over voltage protection make the product safer and more secure.

第二编码器
(随时随地精确读取角度)
Second encoder (accurate angle reading anytime, anywhere)

大扭矩密度
Large torque density

过压保护
Overvoltage protection

过温保护
Over temperature protection

过流保护
Overcurrent protection

高动态响应性
High dynamic responsiveness

高转速
High rotational speed



产品应用广泛

Products widely used

广泛应用于足式机器人 / 机械臂 / SCARA 机器人等
Widely Used In Humanoid Robot/Legged Robots/Robot Arm/SCARA/AGV/AMR etc.



机械臂
Robotic Arm



人形机器人
Humanoid Robot



外骨骼机器人
Exoskeleton Robot



四足机器人
Quadruped Robot



AGV智能车
AGV Smart Car



ARU机器人
ARU Robot

RMD-X系列产品命名规则

RMD-X SERIES NAMING CONVENTIONS

RMD-X4-P6-3-C-B

① ② ③ ④ ⑤ ⑥

- ① 品牌名称: RMD (Reducer Motor Drive)
Brand Name R-Reducer M-Motor D-Drive
- ② X代表系列名, 4代表基座号 例如: X4 X6 X8 X10等
X Stands For The Series Name, 4 represent motor model number e.g:X4 X6 X8 X10 etc
- ③ 行星减速比 例如: P6 P7 P8等
Planetary gear ratio e.g:P6 P7 P8 etc
- ④ 峰值扭矩 3N.m
Peak torque 3N.m
- ⑤ 通信方式 C: CAN bus R: RS485 E: Ethercat
Communication C: CAN bus R: RS485 E: Ethercat
- ⑥ 可定制抱闸 N: 代表无抱闸 B: 代表含抱闸
Customizable Brakes N: No Brake B: Brake

例如 For example

型号 RMD-X6-P6-7-C-N

说明 RMD: 品牌名
X6: 电机型号名
P6: 行星减速比6:1
7: 峰值扭矩
C: CAN bus 通信
N: 没有抱闸

Model RMD-X6-P6-7-C-N

Illustrate RMD: Brand Name
X6: Motor model name
P6: Planetary gear ratio 6:1
7: Peak torque
C: Communication C: CAN bus
N: Without Brake

系列名 Series Name

RMD-X V2

曾用名 Previous Name

RMD-X4 1:6 V3

电机简称 Motor Simplified Name

X4-3

RMD-X Design for Bionic Robot

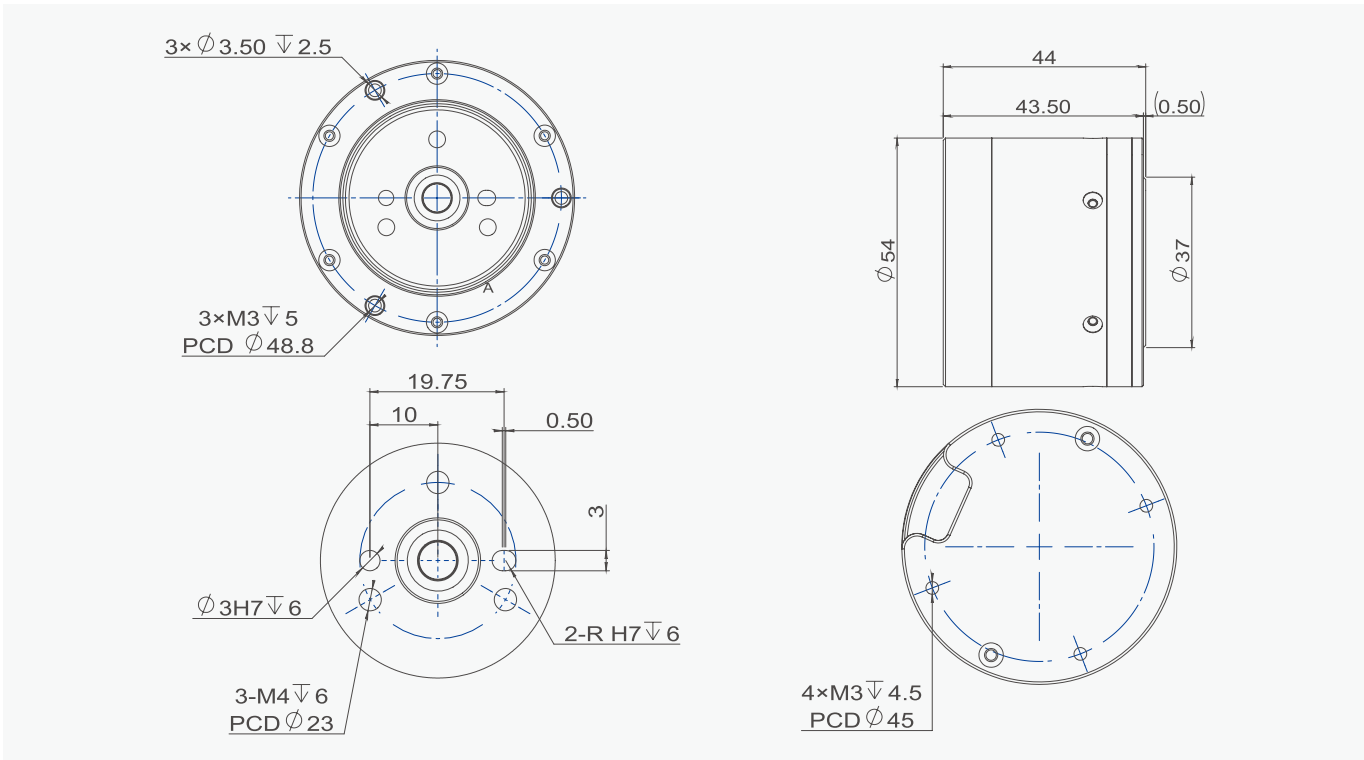
单编码器 Single Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X4-P6-3-R-N	1102010060230100	N (without brake)
RMD-X4-P6-3-C-N	1102010060130100	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization

尺寸安装图 INSTALLATION DRAWING



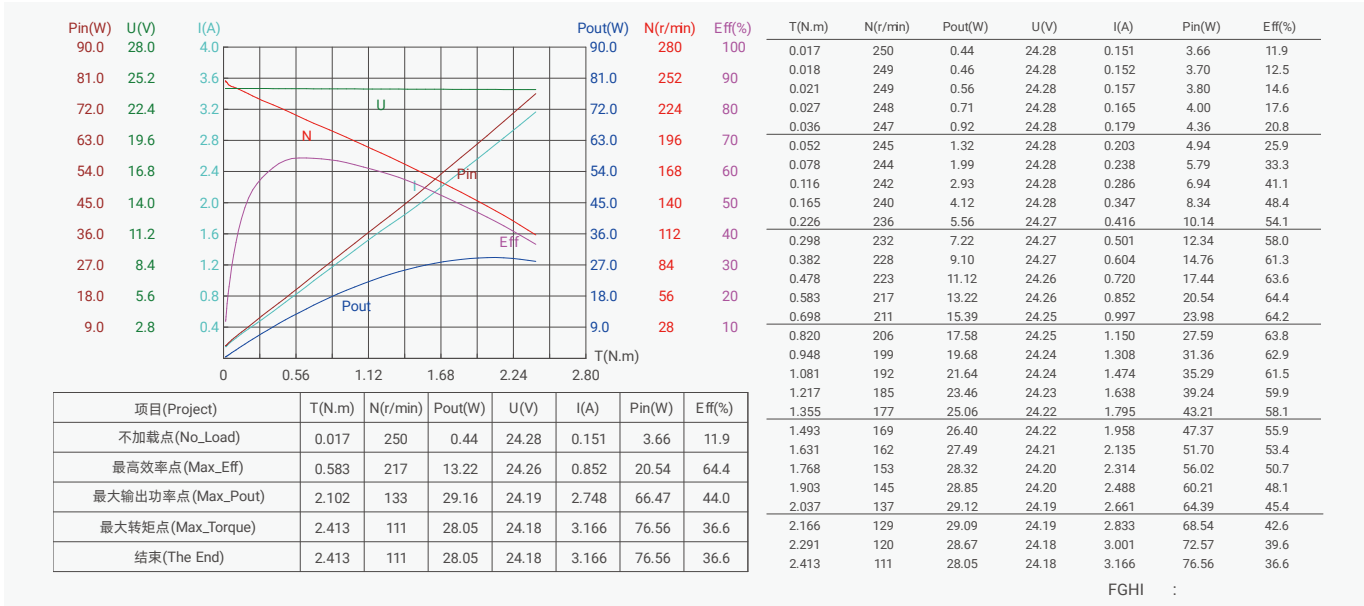
产品参数 PRODUCT PARAMETERS

产品名称 Item Name	X4-3	
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机电速比 Gear Ratio	-	6:1
输入电压 Input Voltage	V	24
额定功率 Rated Power	W	30
额定扭矩 Rated Torque	N.m	1.5
额定速度 Rated Speed	RPM	200
额定电流 Rated Current	A	2
峰值扭矩 Peak Torque	N.m	3
峰值电流 Peak Current	A	4
电机效率 Efficiency	%	60
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	/
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	300
径向负载 Radial Payload	N	550
转动惯量 Inertia	Kg.cm ²	1.2
极对数 Pole Pair	-	14
反驱力 Back Drive Torque	N.m	0.06
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



系列名 Series Name

RMD-X V2

曾用名 Previous Name

RMD-X6 1:6 V2

电机简称 Motor Simplified Name

X6-7



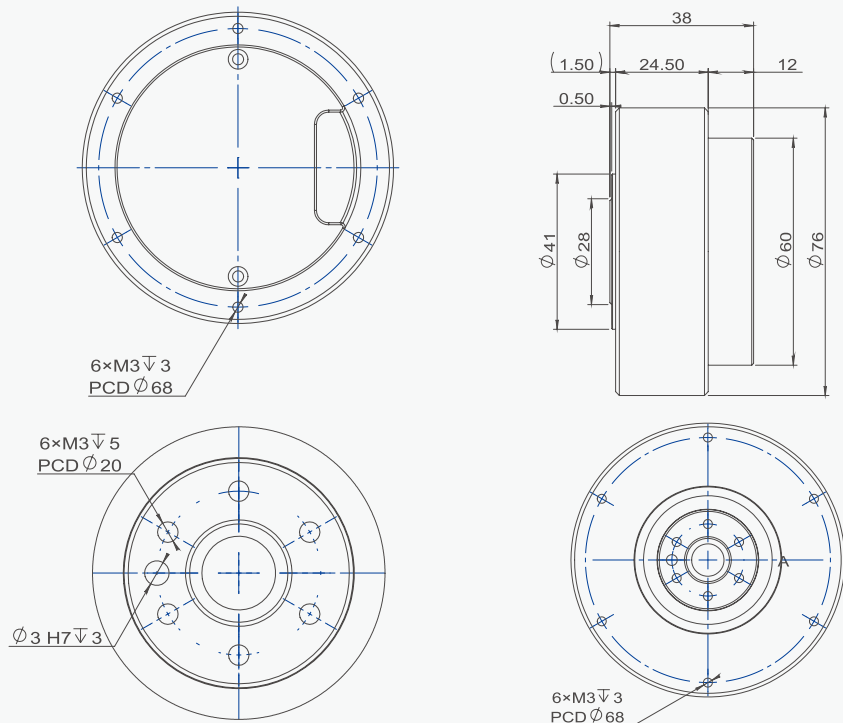
单编码器 Single Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X6-P6-7-R-N	1102150060230100	N (without brake)
RMD-X6-P6-7-C-N	1102150060130100	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization

尺寸安装图 INSTALLATION DRAWING



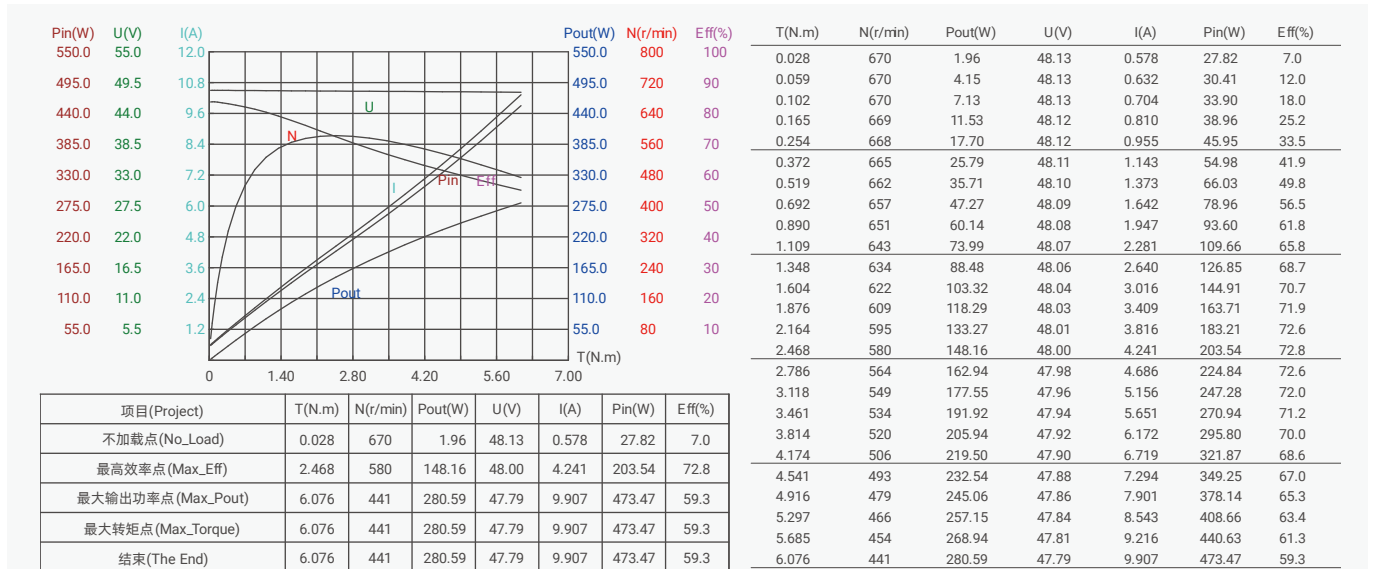
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X6-7
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机电速比 Gear Ratio	-	6:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	150
额定扭矩 Rated Torque	N.m	3.5
额定速度 Rated Speed	RPM	400
额定电流 Rated Current	A	4
峰值扭矩 Peak Torque	N.m	7
峰值电流 Peak Current	A	9
电机效率 Efficiency	%	70
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	/
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	775
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm ²	4.8
极对数 Pole Pair	-	14
反驱力 Back Drive Torque	N.m	0.08
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	350
		/

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



FGHI :

系列名 Series Name

RMD-X V2

曾用名 Previous Name

RMD-X6 1:36 V2

电机简称 Motor Simplified Name

X6-40



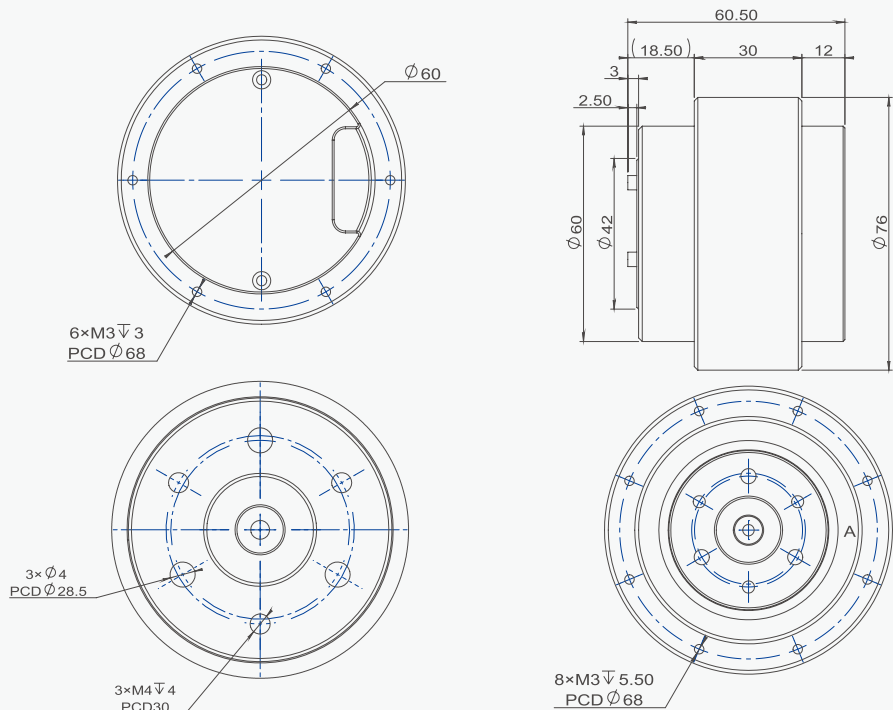
单编码器 Single Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X6-P36-40-R-N	1102050360230100	N (without brake)
RMD-X6-P36-40-C-N	1102050360130100	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization

尺寸安装图 INSTALLATION DRAWING



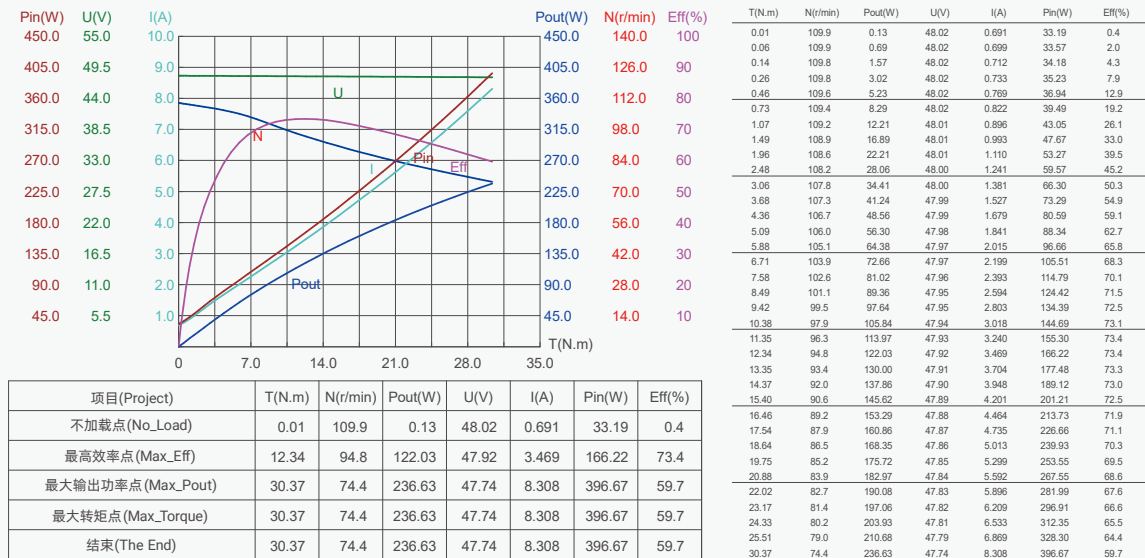
产品参数 PRODUCT PARAMETERS

产品名称 Item Name	X6-40	
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机电速比 Gear Ratio	-	36:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	170
额定扭矩 Rated Torque	N.m	18
额定速度 Rated Speed	RPM	90
额定电流 Rated Current	A	5.2
峰值扭矩 Peak Torque	N.m	36
峰值电流 Peak Current	A	10.5
电机效率 Efficiency	%	70
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	/
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	775
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm2	28.8
极对数 Pole Pair	-	14
反驱力 Back Drive Torque	N.m	0.91
齿隙 Backlash	arc min	15
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



系列名 Series Name

RMD-X V2

曾用名 Previous Name

RMD-X8 Pro 1:9 V2

电机简称 Motor Simplified Name

X8-25



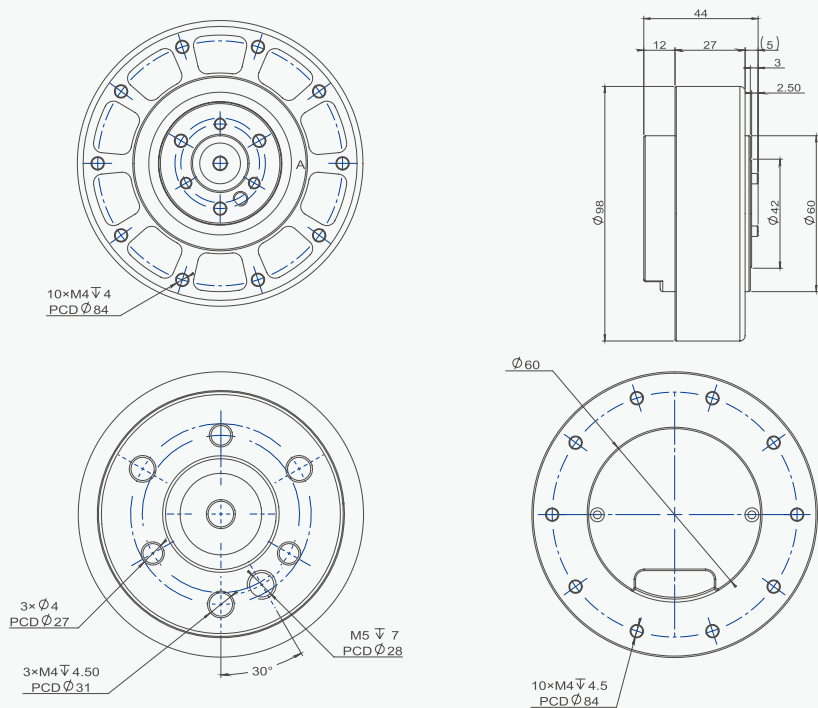
单编码器 Single Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X8-P9-25-R-N	1102030090230100	N (without brake)
RMD-X8-P9-25-C-N	1102030090130100	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization

尺寸安装图 INSTALLATION DRAWING



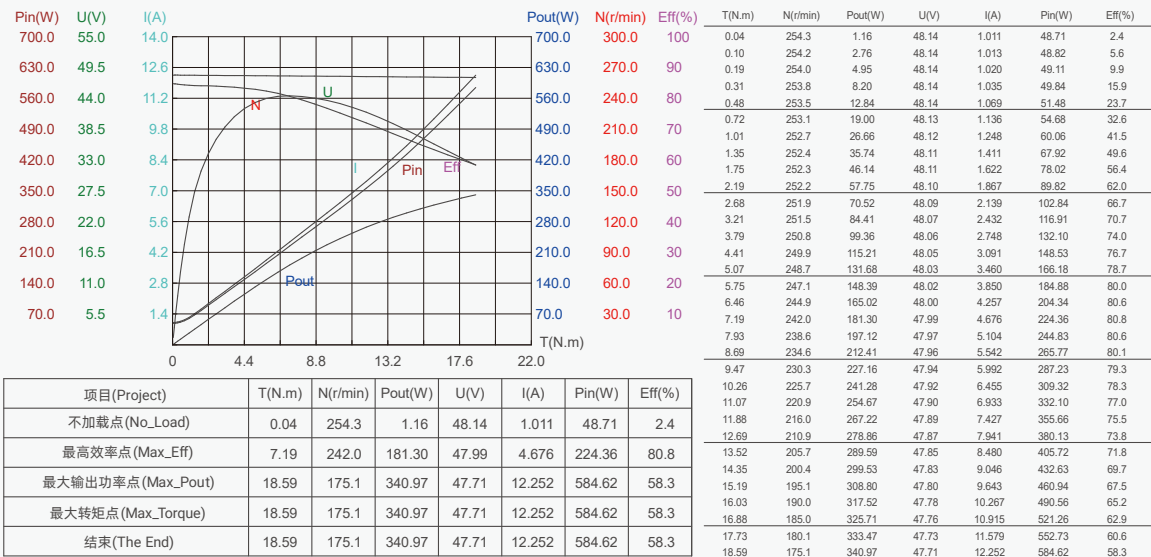
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X8-25
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机速比 Gear Ratio	-	9:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	125
额定扭矩 Rated Torque	N.m	10
额定速度 Rated Speed	RPM	110
额定电流 Rated Current	A	3.2
峰值扭矩 Peak Torque	N.m	25
峰值电流 Peak Current	A	8
电机效率 Efficiency	%	80
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	/
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	985
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm2	30.6
极对数 Pole Pair	-	21
反驱力 Back Drive Torque	N.m	0.61
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	/

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



FGHI

:

系列名 Series Name

RMD-X V3

曾用名 Previous Name

RMD-X6 1:8 V3

电机简称 Motor Simplified Name

X6-8

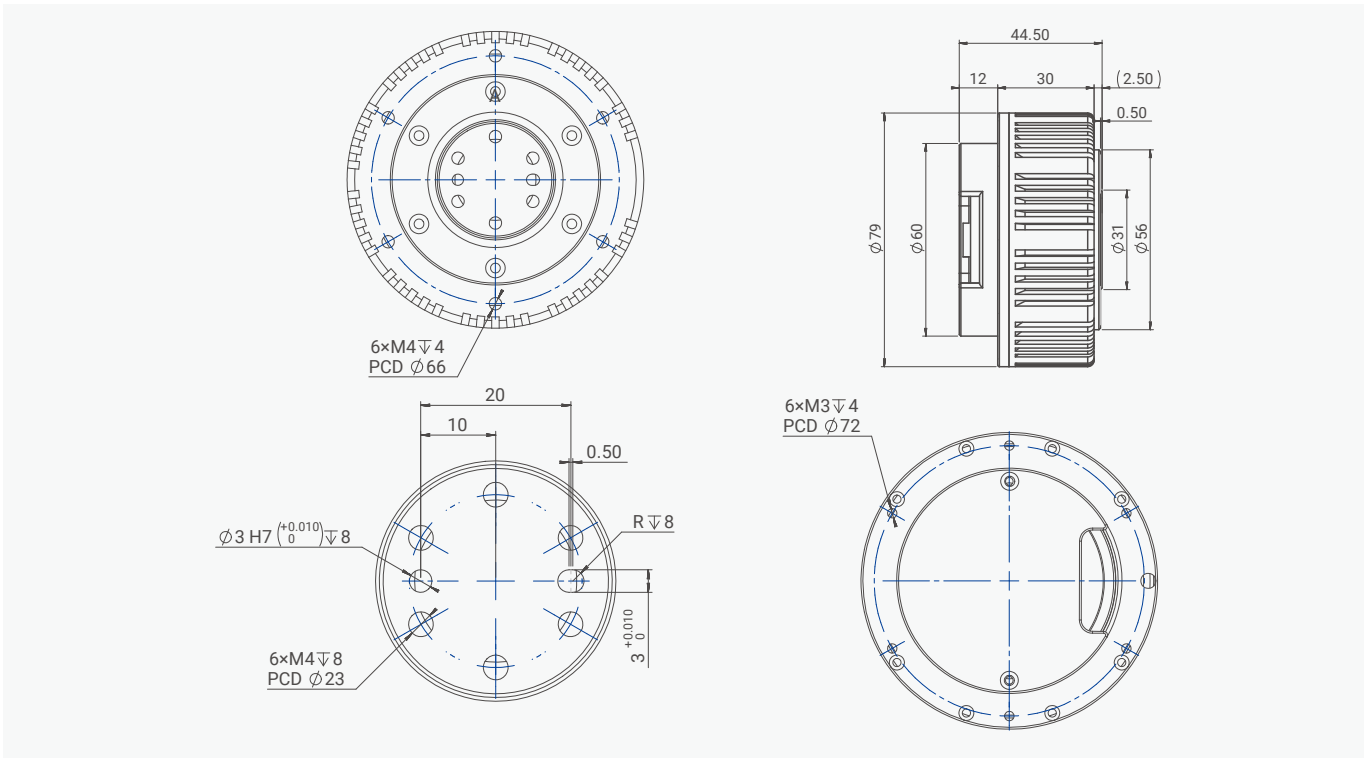
双编码器 Dual Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X6-P8-8-R-N	1102020080230200	N (without brake)
RMD-X6-P8-8-C-N	1102020080130200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization

尺寸安装图 INSTALLATION DRAWING



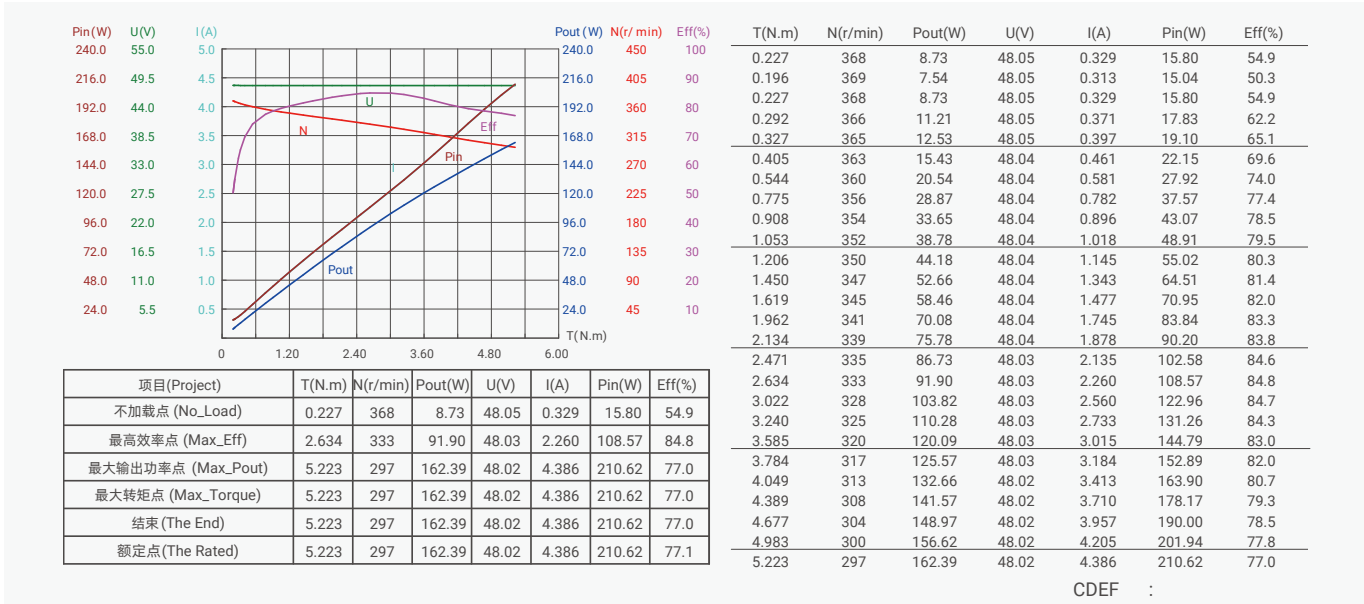
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X6-8
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机电速比 Gear Ratio	-	8:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	135
额定扭矩 Rated Torque	N.m	4.5
额定速度 Rated Speed	RPM	310
额定电流 Rated Current	A	3.6
峰值扭矩 Peak Torque	N.m	9
峰值电流 Peak Current	A	7.2
电机效率 Efficiency	%	78
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	775
径向负载 Radial Payload	N	1040
转动惯量 Inertia	Kg.cm2	6.8
极对数 Pole Pair	-	14
反驱力 Back Drive Torque	N.m	0.1
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



系列名 Series Name

RMD-X V3

曾用名 Previous Name

RMD-X8 1:6 V3

电机简称 Motor Simplified Name

X8-20



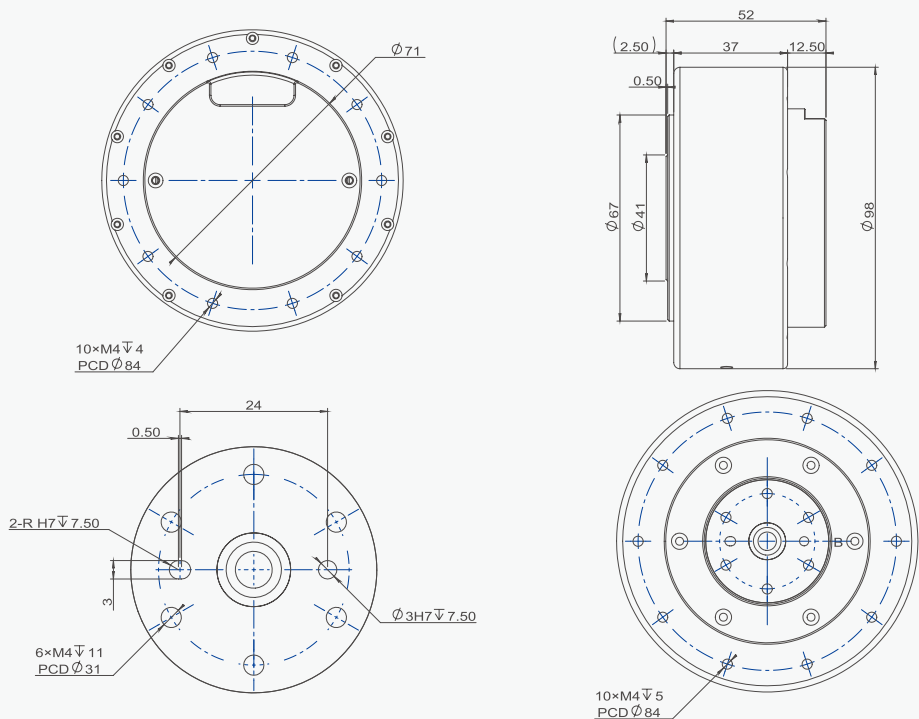
双编码器 Dual Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X8-P6-20-R-N	1102140060230200	N (without brake)
RMD-X8-P6-20-C-N	1102140060130200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization

尺寸安装图 INSTALLATION DRAWING



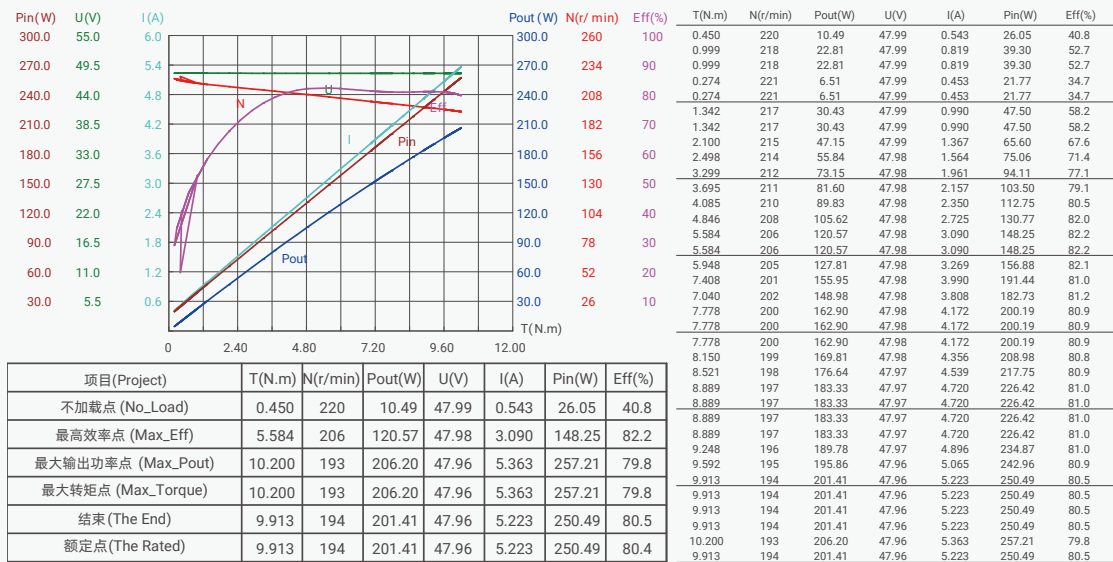
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X8-20
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机速比 Gear Ratio	-	6:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	200
额定扭矩 Rated Torque	N.m	10
额定速度 Rated Speed	RPM	190
额定电流 Rated Current	A	5.2
峰值扭矩 Peak Torque	N.m	20
峰值电流 Peak Current	A	10.5
电机效率 Efficiency	%	80
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	985
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm2	20
极对数 Pole Pair	-	20
反驱力 Back Drive Torque	N.m	0.4
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



BCDE :

系列名 Series Name

RMD-X V3

曾用名 Previous Name

RMD-X8 S2 1:36 V3

电机简称 Motor Simplified Name

X8-60



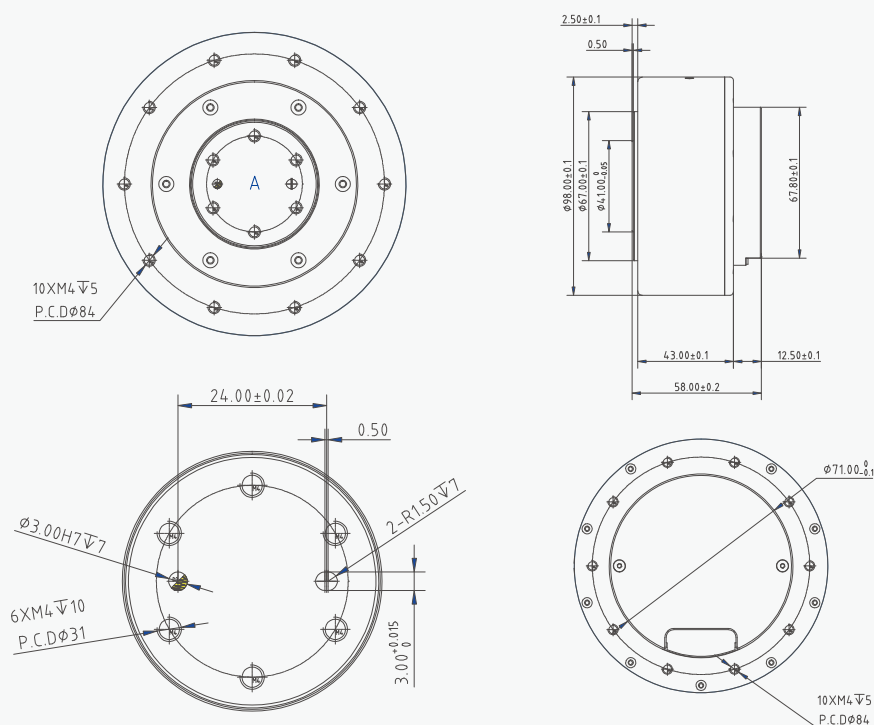
双编码器 Dual Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X8-P36-60-R-N	1102060360230200	N (without brake)
RMD-X8-P36-60-C-N	1102060360130200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization

尺寸安装图 INSTALLATION DRAWING



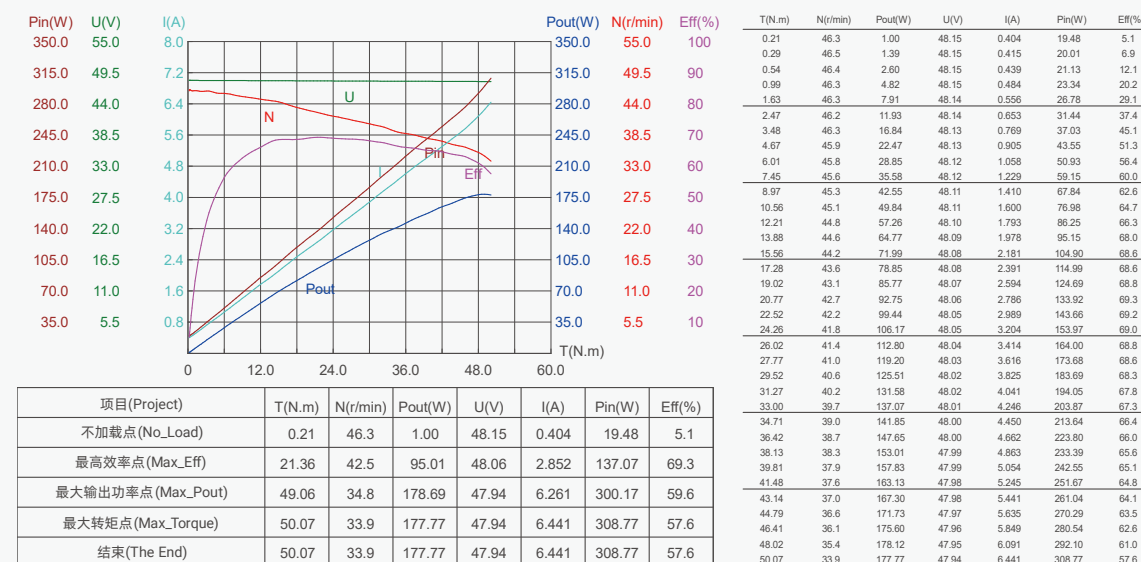
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X8-60
减速机类型 Reducer Type		行星减速机 Planetary Reducer
减速机电速比 Gear Ratio		36:1
输入电压 Input Voltage		48
额定功率 Rated Power		130
额定扭矩 Rated Torque		30
额定速度 Rated Speed		40
额定电流 Rated Current		4
峰值扭矩 Peak Torque		60
峰值电流 Peak Current		8
电机效率 Efficiency		69
输入端编码器 Input Encoder		16 bit
输出端编码器 Output Encoder		14 bit
通信方式及波特率 Communication Method & Baudrate		CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload		985
径向负载 Radial Payload		1250
转动惯量 Inertia		96
极对数 Pole Pair		20
反驱力 Back Drive Torque		1
齿隙 Backlash		15
重量 Weight	N (without brake)	900
	B (with brake)	/

* 额定扭矩测试方法：在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* **Rated torque test method:** When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



Audit:

系列名 Series Name

RMD-X V3

曾用名 Previous Name

RMD-X10 1:7 V3

电机简称 Motor Simplified Name

X10-40

双编码器 Dual Encoder

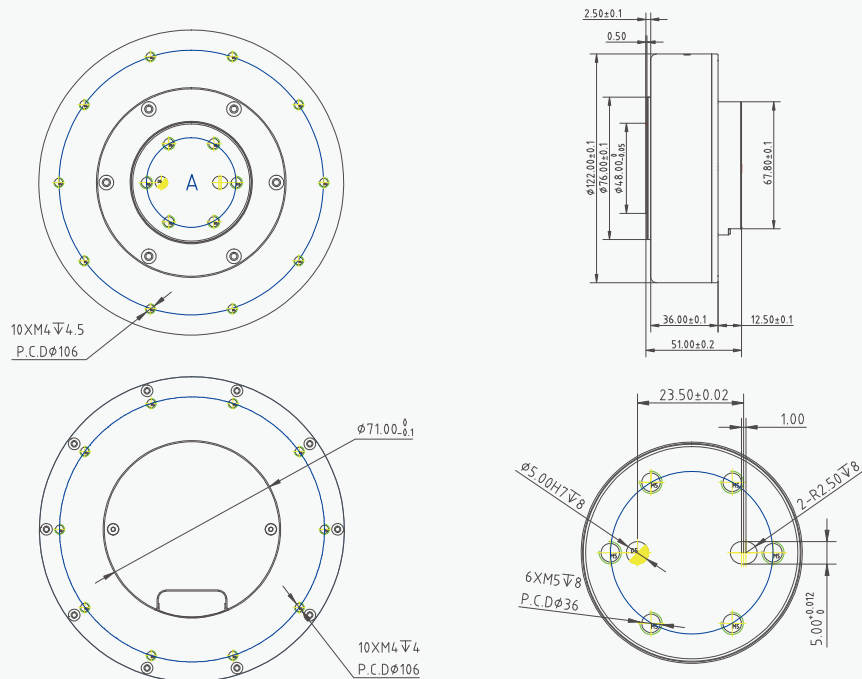
型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X10-P7-40-R-N	1102040070230200	N (without brake)
RMD-X10-P7-40-C-N	1102040070130200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization



尺寸安装图 INSTALLATION DRAWING



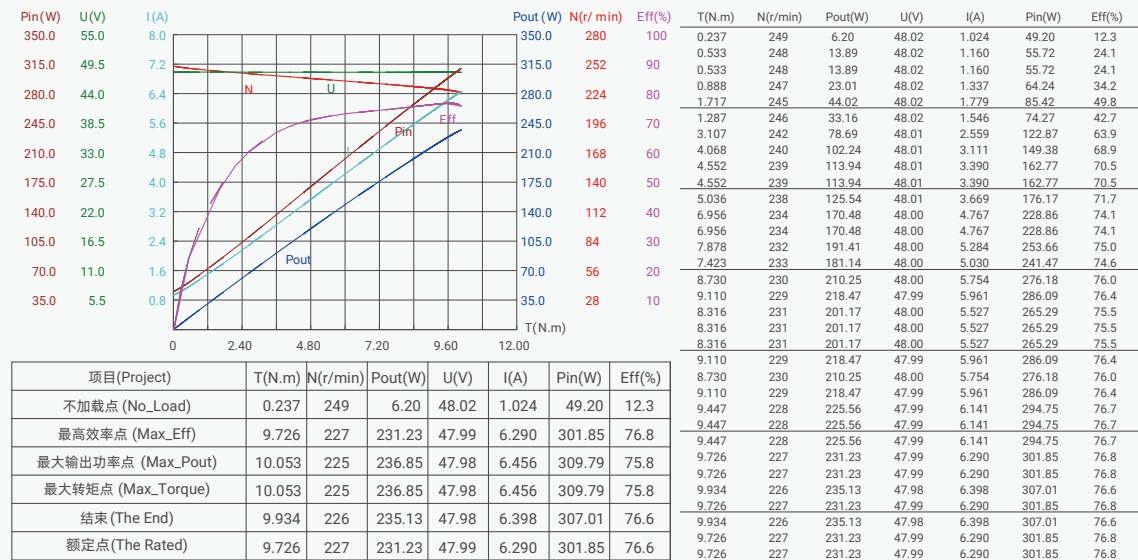
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X10-40
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机电速比 Gear Ratio	-	7:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	265
额定扭矩 Rated Torque	N.m	15
额定速度 Rated Speed	RPM	165
额定电流 Rated Current	A	6.5
峰值扭矩 Peak Torque	N.m	40
峰值电流 Peak Current	A	15
电机效率 Efficiency	%	82
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	1625
径向负载 Radial Payload	N	2250
转动惯量 Inertia	Kg.cm2	39.7
极对数 Pole Pair	-	21
反驱力 Back Drive Torque	N.m	0.62
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



Audit:

系列名 Series Name

RMD-X V3

曾用名 Previous Name

RMD-X10 S2 1:35 V3

电机简称 Motor Simplified Name

X10-100



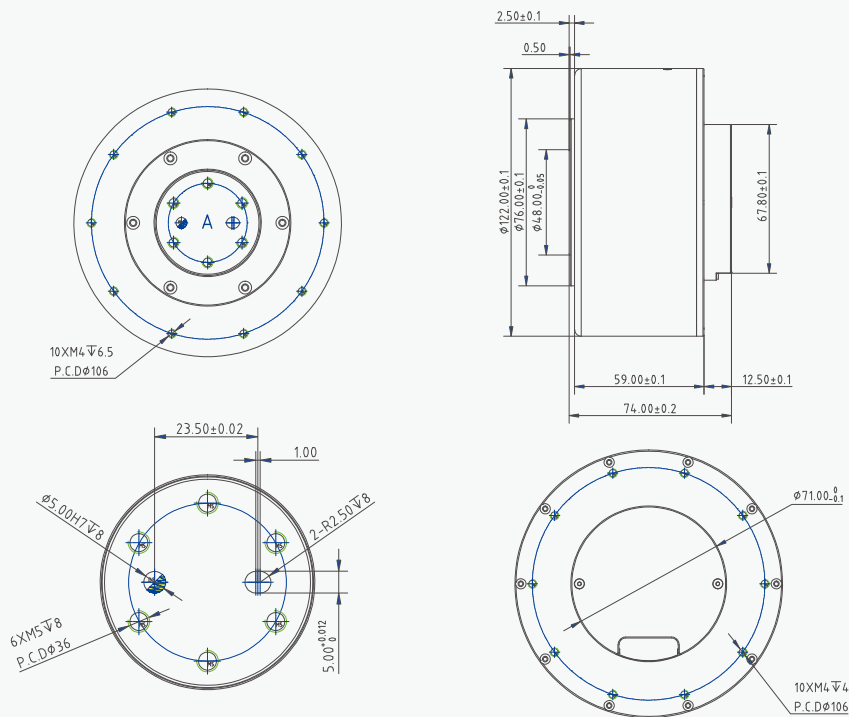
双编码器 Dual Encoder

型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X10-P35-100-R-N	1102070350230200	N (without brake)
RMD-X10-P35-100-C-N	1102070350130200	N (without brake)

* 此电机如需抱闸可支持定制 This motor can be customized if a brake is required

* 此电机如需防水可支持定制IP54 If this motor needs to be waterproof, it can support customized IP54

尺寸安装图 INSTALLATION DRAWING



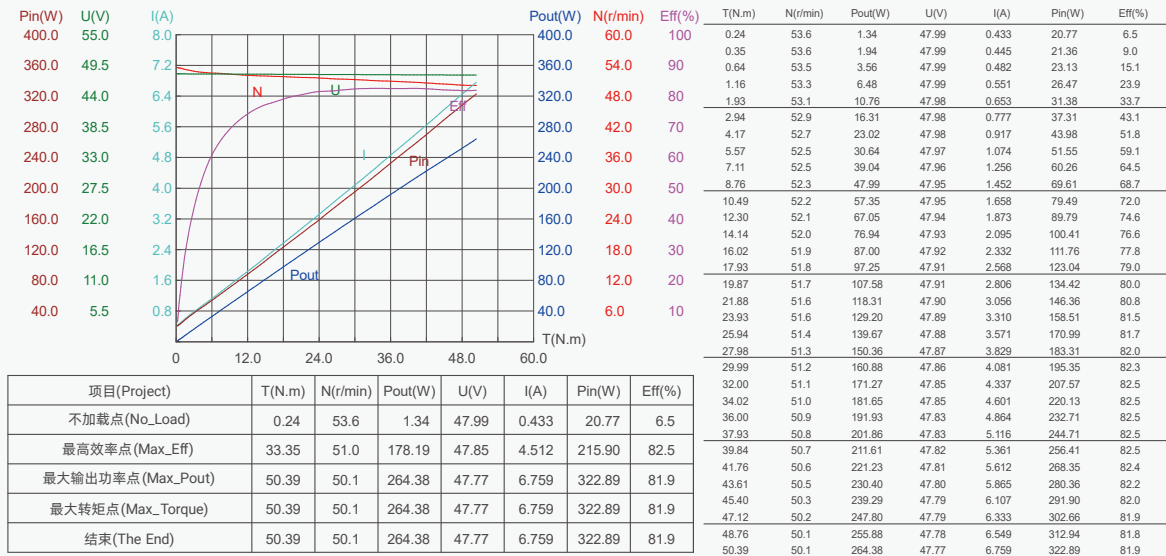
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X10-100
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机电速比 Gear Ratio	-	35:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	265
额定扭矩 Rated Torque	N.m	50
额定速度 Rated Speed	RPM	50
额定电流 Rated Current	A	6.7
峰值扭矩 Peak Torque	N.m	100
峰值电流 Peak Current	A	13.5
电机效率 Efficiency	%	82
输入端编码器 Input Encoder	-	16 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M RS485:115200/500K/1M/2.5M
轴向负载 Axial Payload	N	1625
径向负载 Radial Payload	N	2250
转动惯量 Inertia	Kg.cm2	198.6
极对数 Pole Pair	-	21
反驱力 Back Drive Torque	N.m	2.88
齿隙 Backlash	arc min	15
重量 Weight	N (without brake)	1700
	B (with brake)	/

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



Audit:

Design for Bionic Robot

系列名 Series Name

RMD-X V3

电机简称 Motor Simplified Name

X4-24

双编码器 Dual Encoder

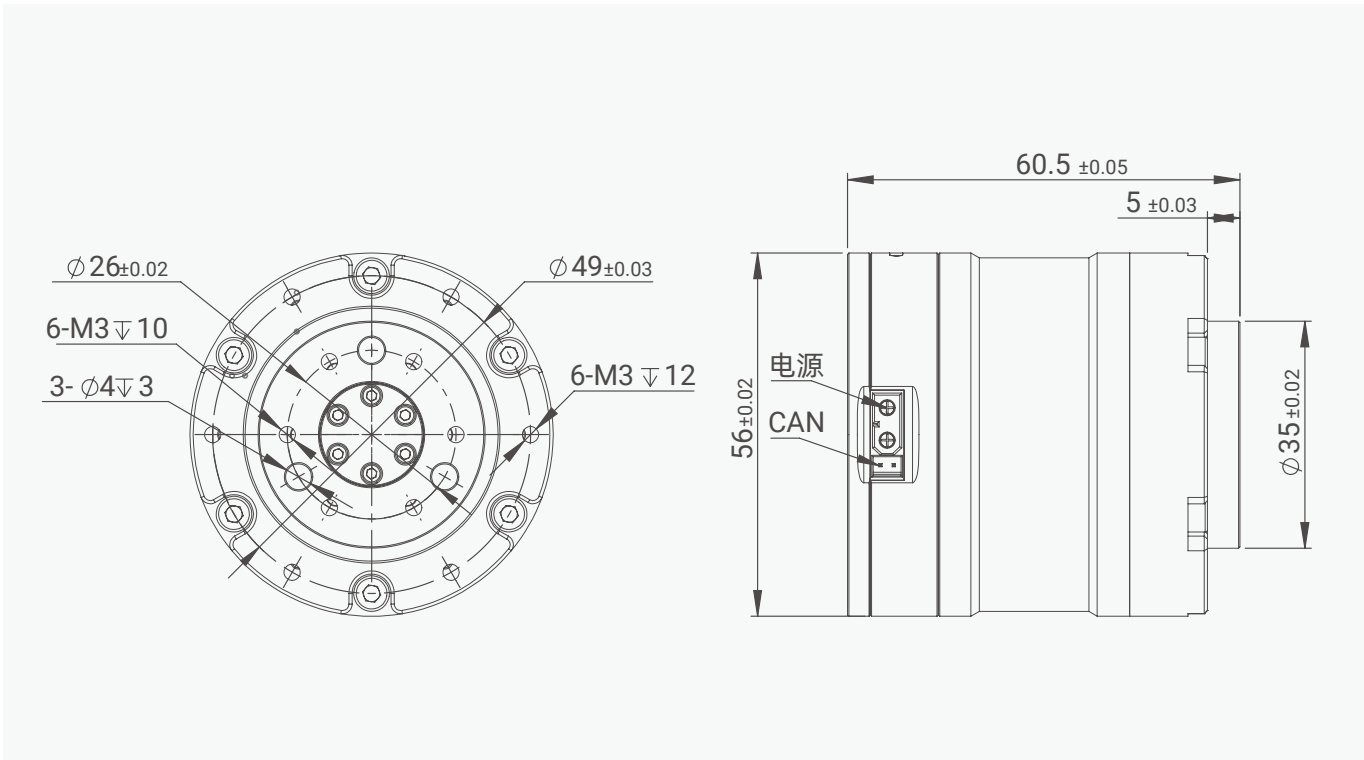
型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X4-P36-24-C-N	1102120360140200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization



尺寸安装图 INSTALLATION DRAWING



产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X4-24
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机速比 Gear Ratio	-	36:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	150
额定扭矩 Rated Torque	N.m	9
额定速度 Rated Speed	RPM	100
额定电流 Rated Current	A	3.5
峰值扭矩 Peak Torque	N.m	24
峰值电流 Peak Current	A	10
电机效率 Efficiency	%	75
输入端编码器 Input Encoder	-	14 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M
轴向负载 Axial Payload	N	1900
径向负载 Radial Payload	N	1900
转动惯量 Inertia	Kg.cm2	6.8
极对数 Pole Pair	-	14
反驱力 Back Drive Torque	N.m	0.87
齿隙 Backlash	arc min	15
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Design for Bionic Robot

系列名 Series Name

RMD-X V3

电机简称 Motor Simplified Name

X8-90

双编码器 Dual Encoder

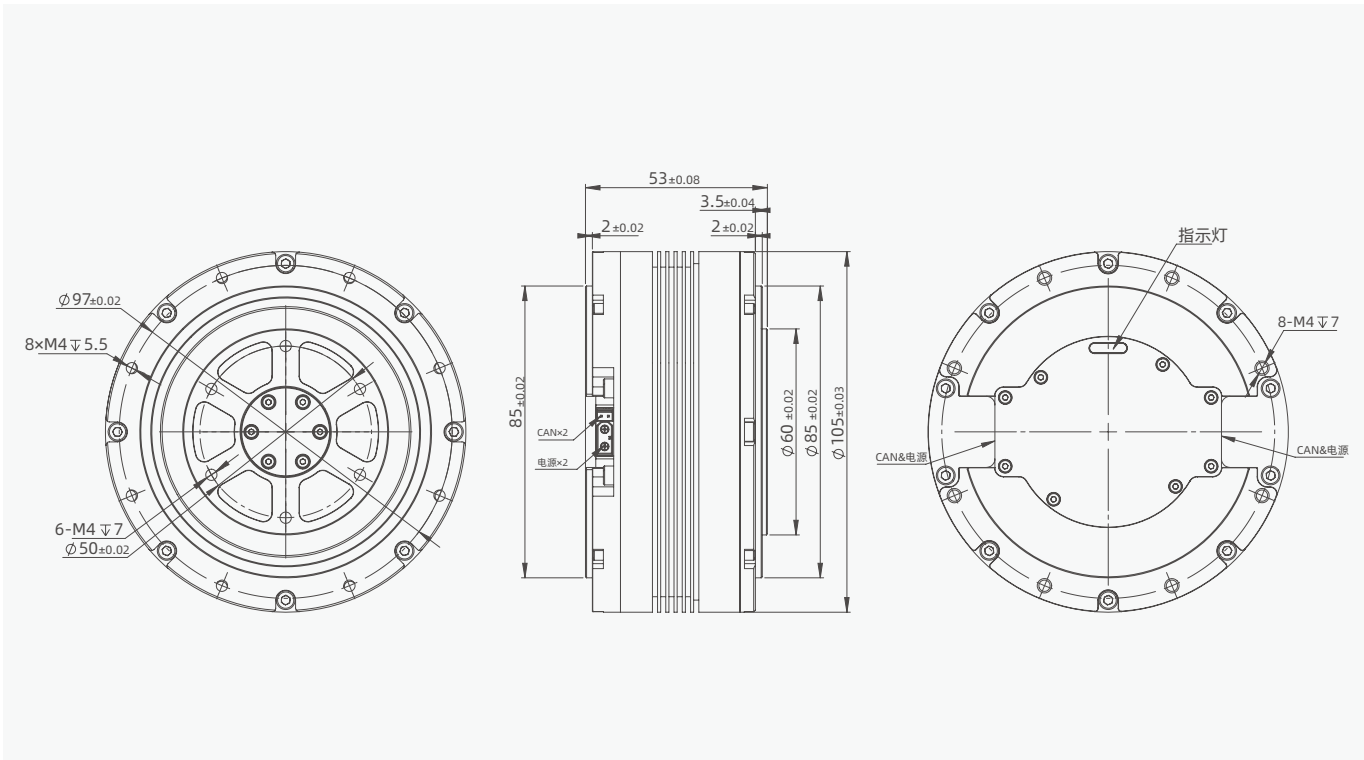
型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X8-P18-90-C-N	1102130180140200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization



尺寸安装图 INSTALLATION DRAWING



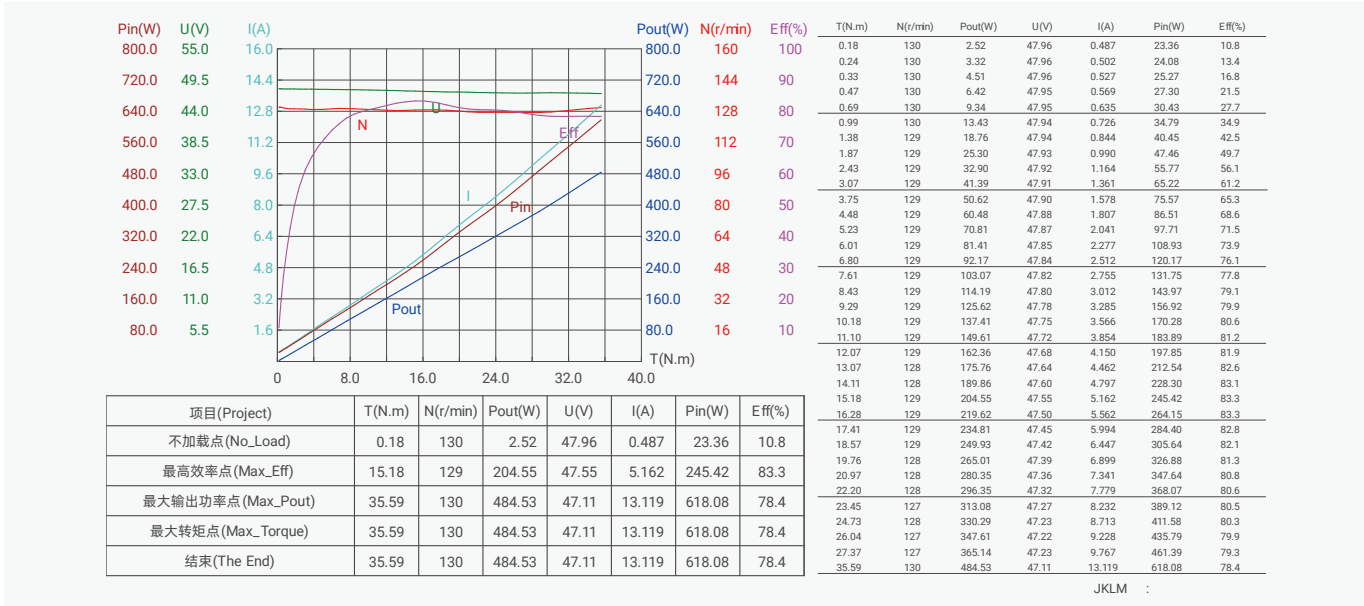
产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X8-90
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机电速比 Gear Ratio	-	18:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	500
额定扭矩 Rated Torque	N.m	25
额定速度 Rated Speed	RPM	130
额定电流 Rated Current	A	10
峰值扭矩 Peak Torque	N.m	90
峰值电流 Peak Current	A	30
电机效率 Efficiency	%	80
输入端编码器 Input Encoder	-	14 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M
轴向负载 Axial Payload	N	2800
径向负载 Radial Payload	N	2800
转动惯量 Inertia	Kg.cm2	26
极对数 Pole Pair	-	21
反驱力 Back Drive Torque	N.m	0.65
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

电机特征曲线 MOTOR CHARACTERISTIC CURVE



Design for Bionic Robot

系列名 Series Name

RMD-X V3

电机简称 Motor Simplified Name

X12-150

双编码器 Dual Encoder

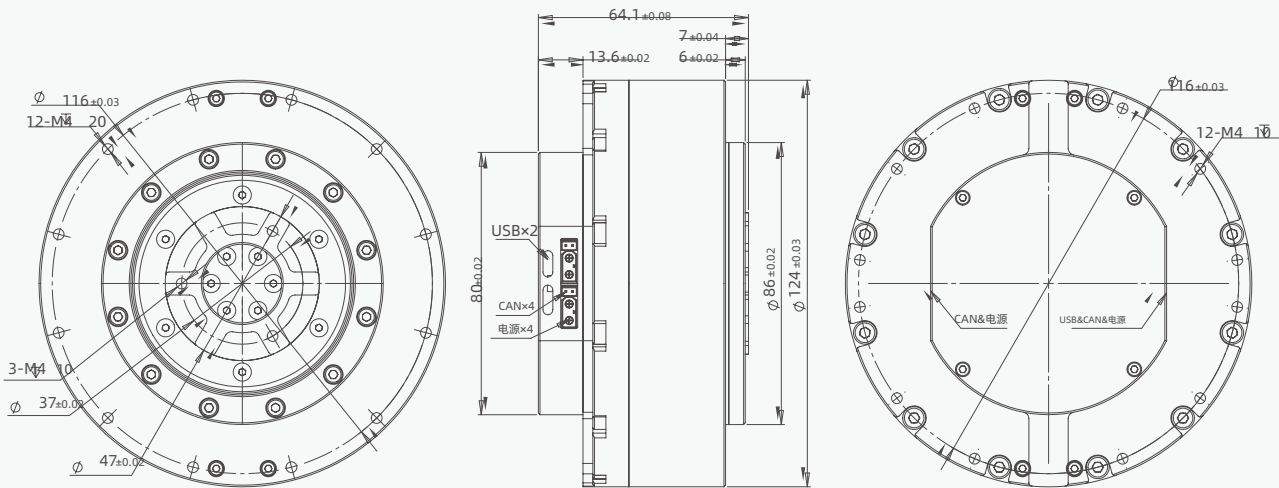
型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X12-P12-150-C-N	1102080120130200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization



尺寸安装图 INSTALLATION DRAWING



产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X12-150
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机速比 Gear Ratio	-	12:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	780
额定扭矩 Rated Torque	N.m	50
额定速度 Rated Speed	RPM	100
额定电流 Rated Current	A	15
峰值扭矩 Peak Torque	N.m	150
峰值电流 Peak Current	A	45
电机效率 Efficiency	%	78
输入端编码器 Input Encoder	-	14 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M
轴向负载 Axial Payload	N	2600
径向负载 Radial Payload	N	2600
转动惯量 Inertia	Kg.cm2	59
极对数 Pole Pair	-	21
反驱力 Back Drive Torque	N.m	1.26
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	-

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Design for Bionic Robot

系列名 Series Name

RMD-X V3

电机简称 Motor Simplified Name

X15-400

双编码器 Dual Encoder

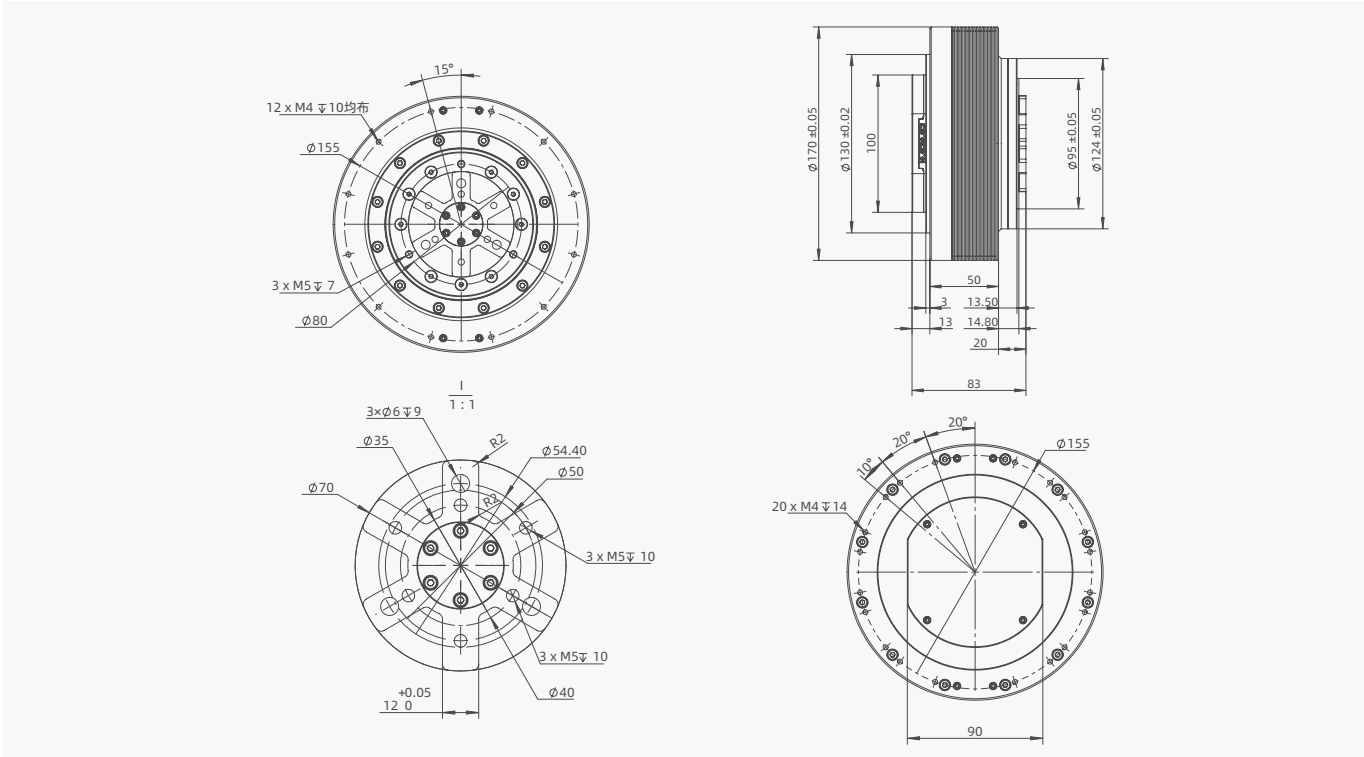
型号 (Actuator Full Name)	货品编码 (Product Code)	抱闸/非抱闸 (With brake/Without Brake)
RMD-X15-P12-400-C-N	1102110120130200	N (without brake)

* 此电机如需抱闸可支持定制 This motor support brake customization

* 此电机如需防水可支持定制IP54 This motor support IP54 customization



尺寸安装图 INSTALLATION DRAWING



产品参数 PRODUCT PARAMETERS

产品名称 Item Name		X15-400
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机速比 Gear Ratio	-	11.4:1
输入电压 Input Voltage	V	60
额定功率 Rated Power	W	1500
额定扭矩 Rated Torque	N.m	130
额定速度 Rated Speed	RPM	80
额定电流 Rated Current	A	23
峰值扭矩 Peak Torque	N.m	380
峰值电流 Peak Current	A	65
电机效率 Efficiency	%	83
输入端编码器 Input Encoder	-	14 bit
输出端编码器 Output Encoder	-	14 bit
通信方式及波特率 Communication Method & Baudrate	-	CAN:1M
轴向负载 Axial Payload	N	6700
径向负载 Radial Payload	N	6700
转动惯量 Inertia	Kg.cm2	175
极对数 Pole Pair	-	21
反驱力 Back Drive Torque	N.m	2.15
齿隙 Backlash	arc min	10
重量 Weight	N (without brake)	g
	B (with brake)	- /

* 额定扭矩测试方法: 在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.