

**MYACTUATOR**

专业 • 可靠 • 精进



## 更多信息 More Information

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### 国际市场 International Market



whatsapp



英文官网



Youtube

### 国内市场 Domestic market



销售经理



中文官网



企业公众号

## Micro Servo · Product Solution

微型伺服·系统方案

All Support Customization  
产品可定制

### Integrated Planetary Actuator

一体化行星减速模组

### Integrated Harmonic Actuator

一体化谐波模组

### Integrated Cycloidal Actuator

一体化摆线模组

### Integrated Direct Drive Actuator

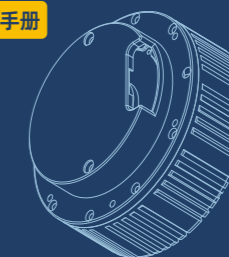
一体化直驱模组

### Frameless Motor

无框力矩电机

# GENERAL CATALOG

产品综合手册





# RMD-X 系列 Series

## 一体化行星模组 Integrated Planetary Actuator

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 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**

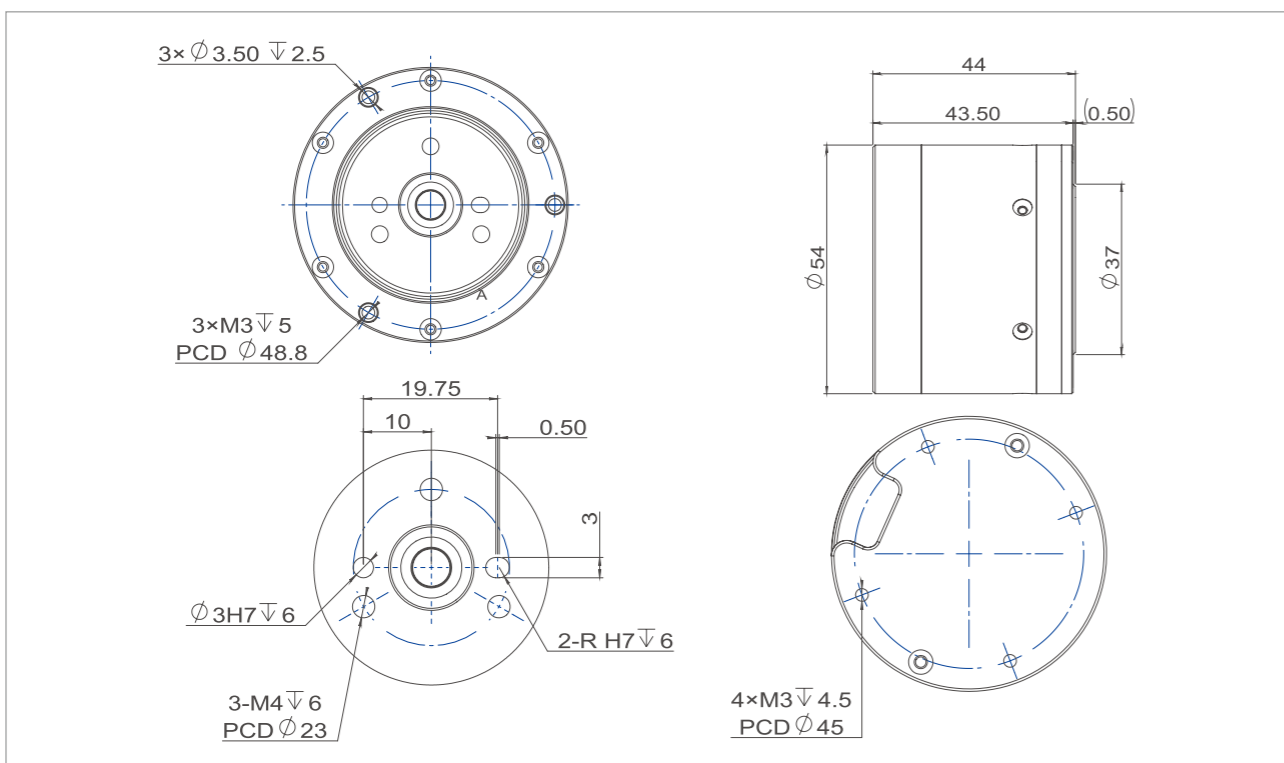


**单编码器 Single Encoder**

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**



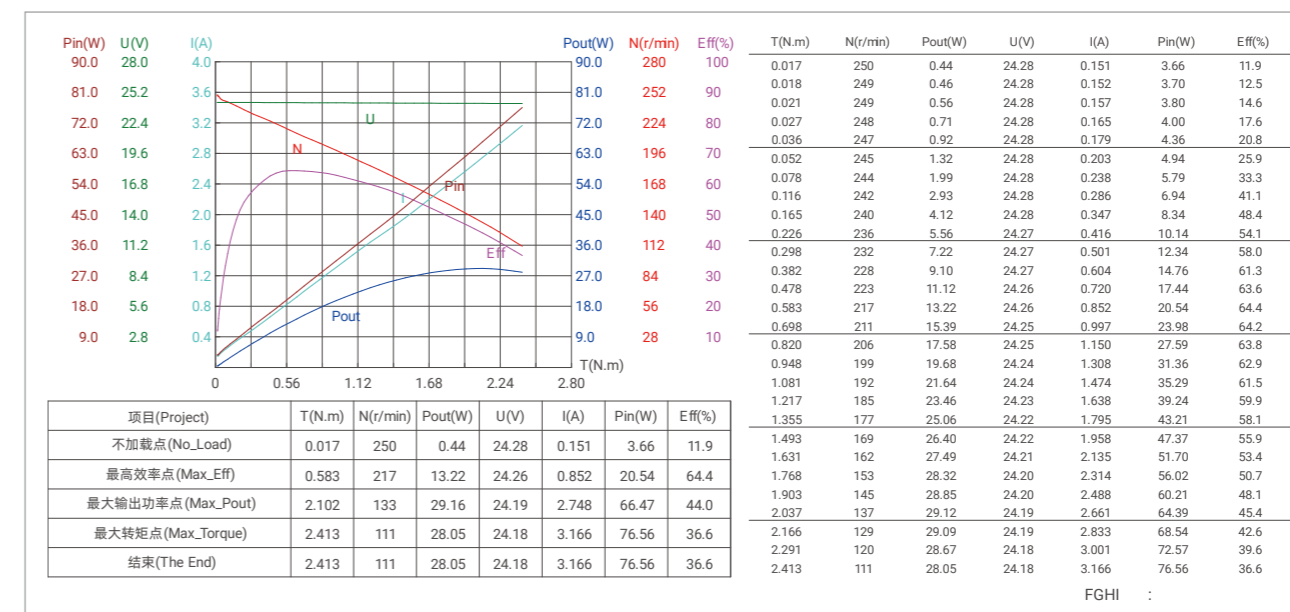
**产品参数 Product Parameters**

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 <sup>2</sup>	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)	-
		300
		/

\* 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, 电机扭矩在升温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**

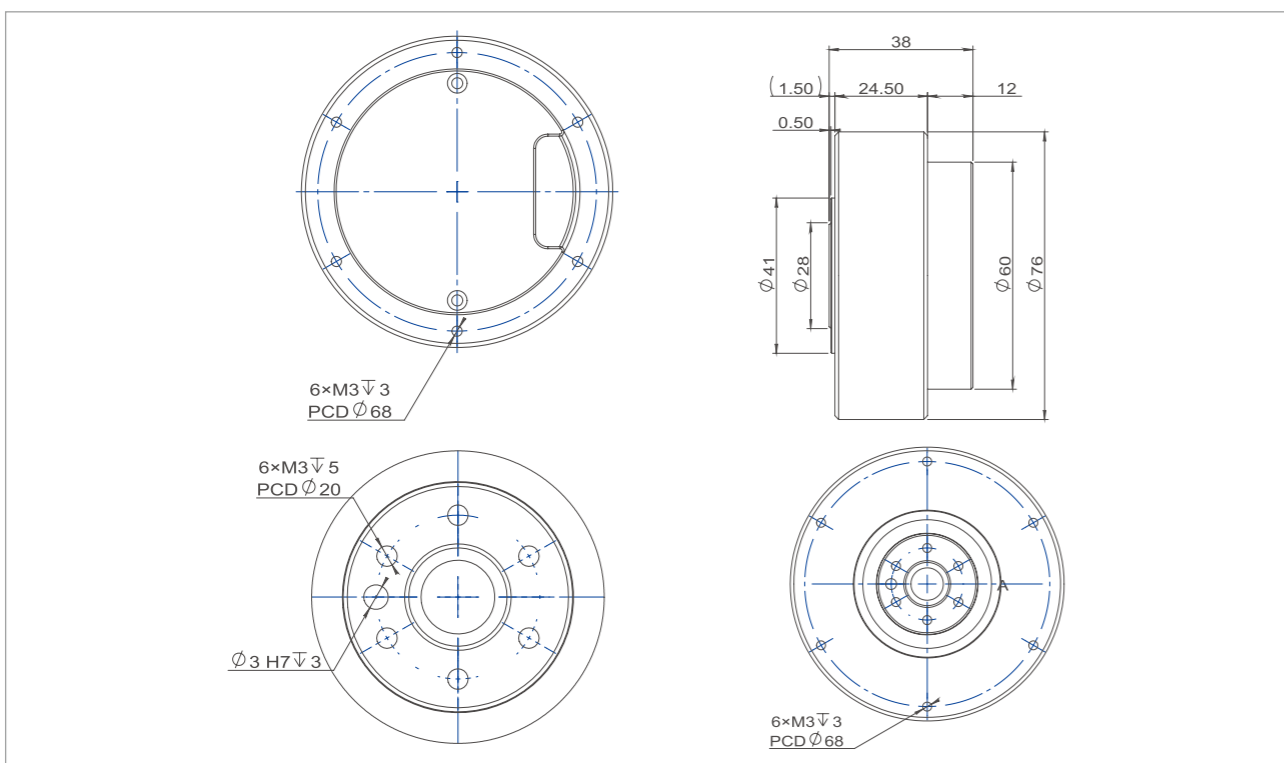


单编码器 Single Encoder

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



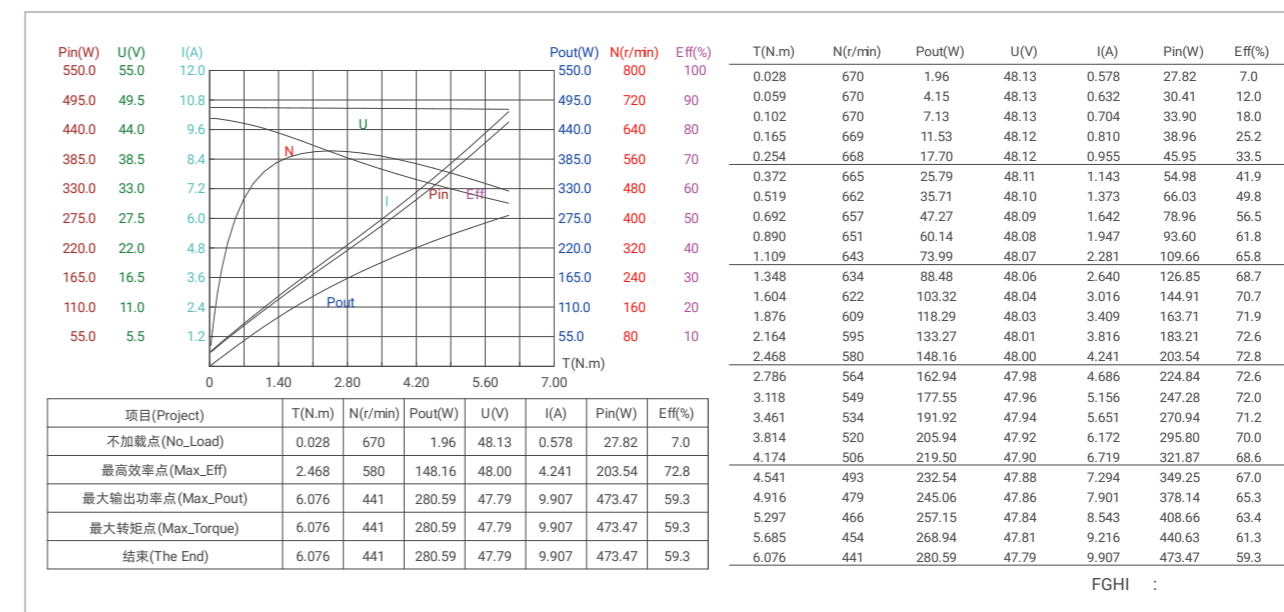
产品参数 Product Parameters

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 <sup>2</sup>	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)	/

\* 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, 电机扭矩在升温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 S2 1:36 V2**  
电机简称 Motor Simplified Name  
**X6-40**

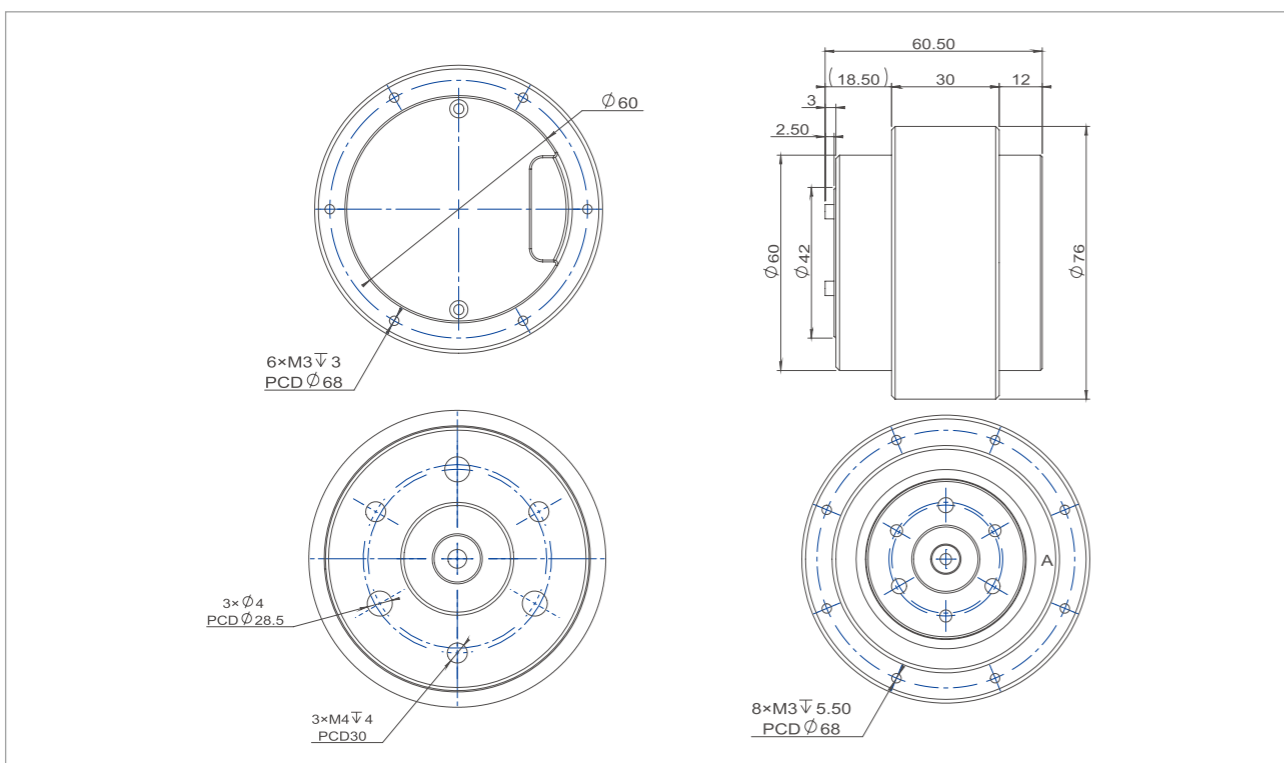


**单编码器 Single Encoder**

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**



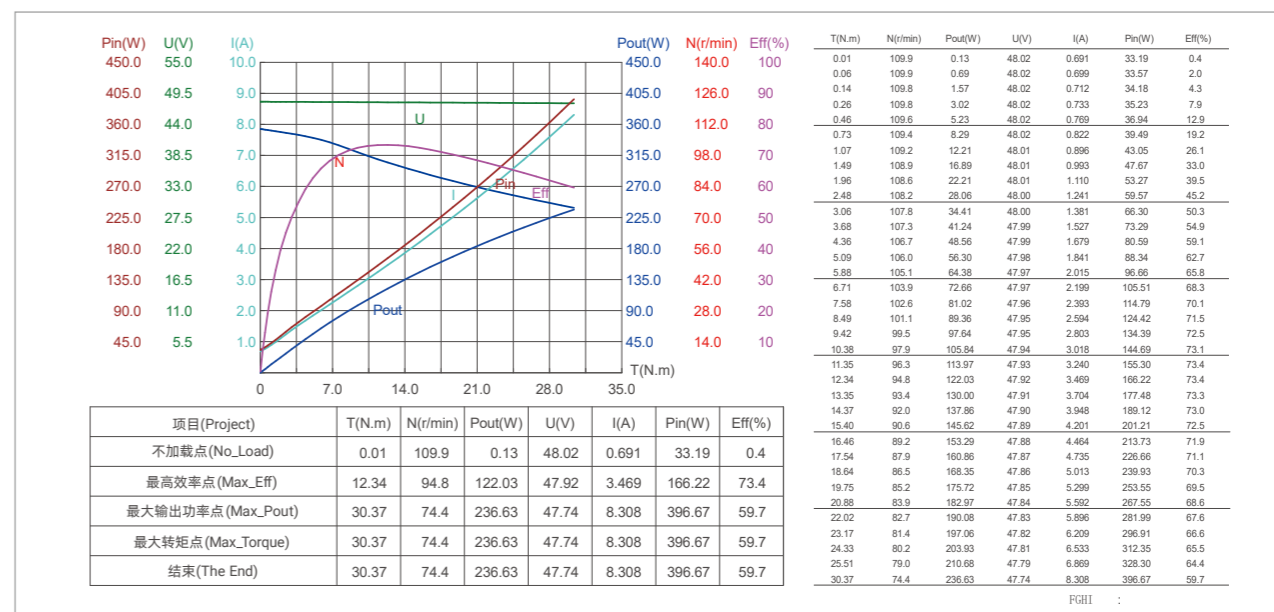
**产品参数 Product Parameters**

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	40
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.cm <sup>2</sup>	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, 电机扭矩在升温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**

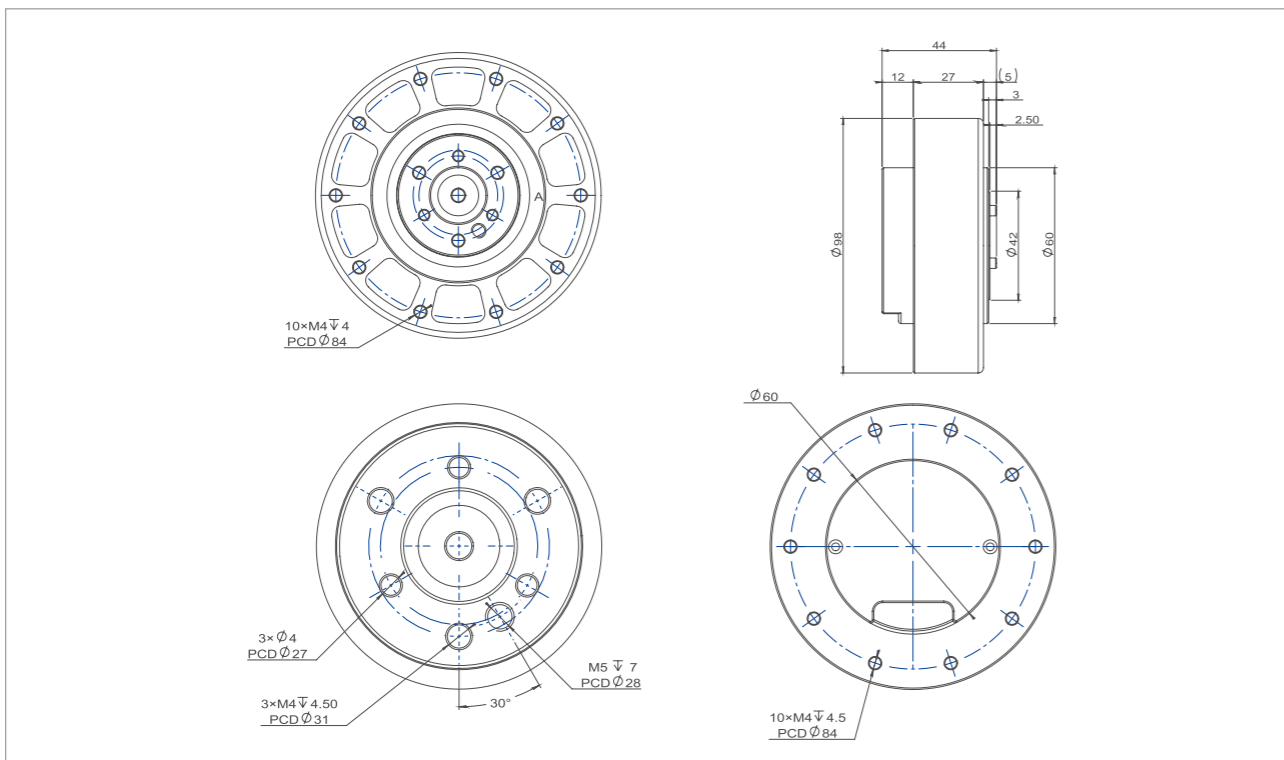


**单编码器 Single Encoder**

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**



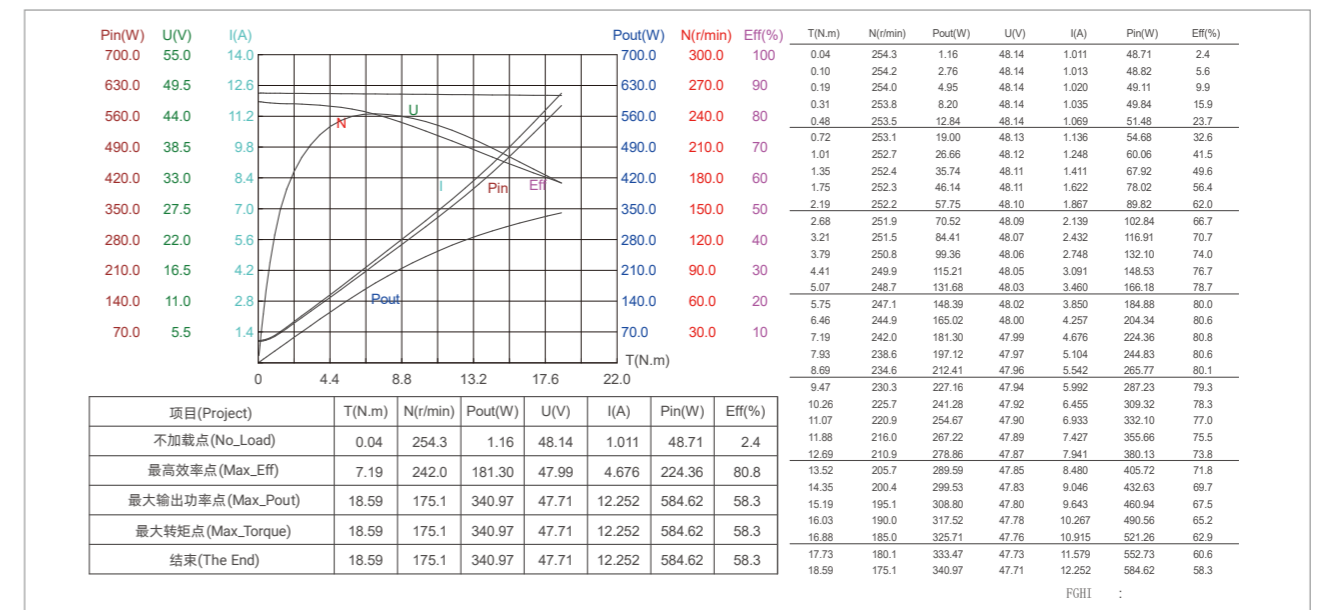
**产品参数 Product Parameters**

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.cm <sup>2</sup>	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)	710
	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-X6 1:8 V3**  
电机简称 Motor Simplified Name  
**X6-8**

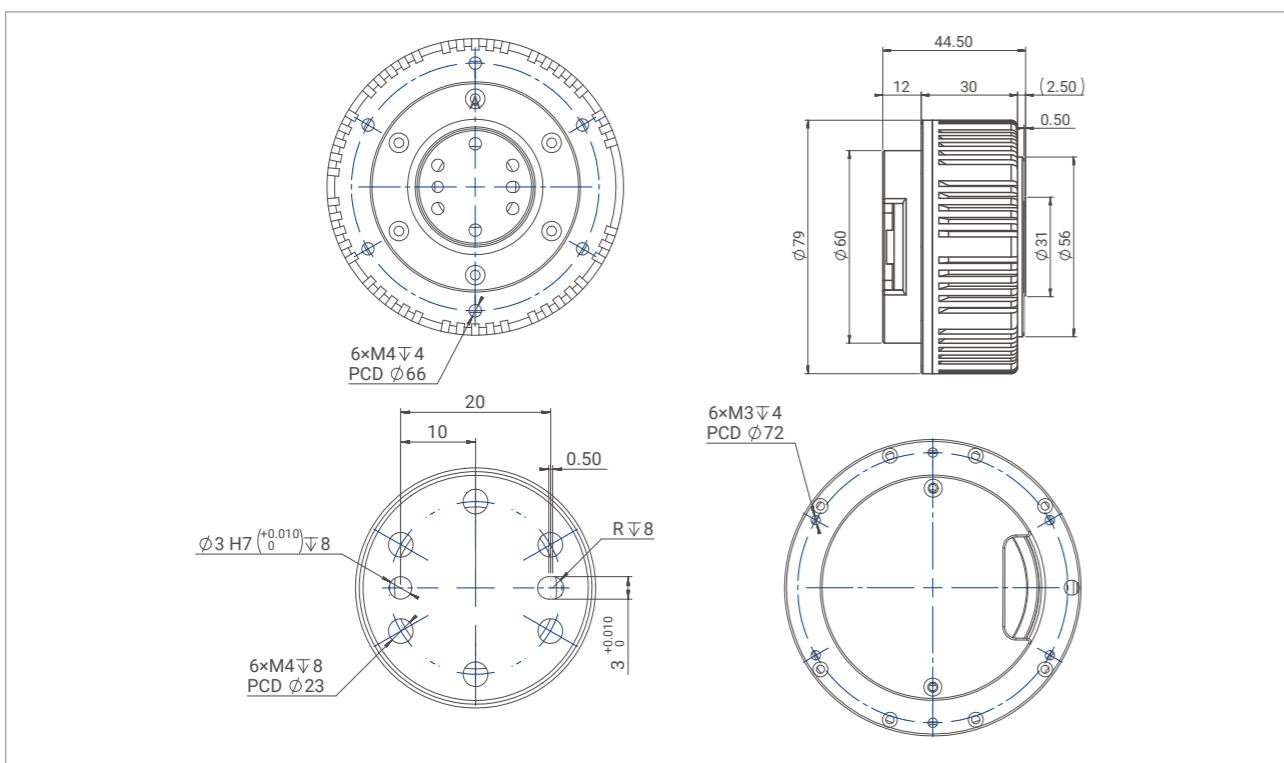


双编码器 Dual Encoder

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



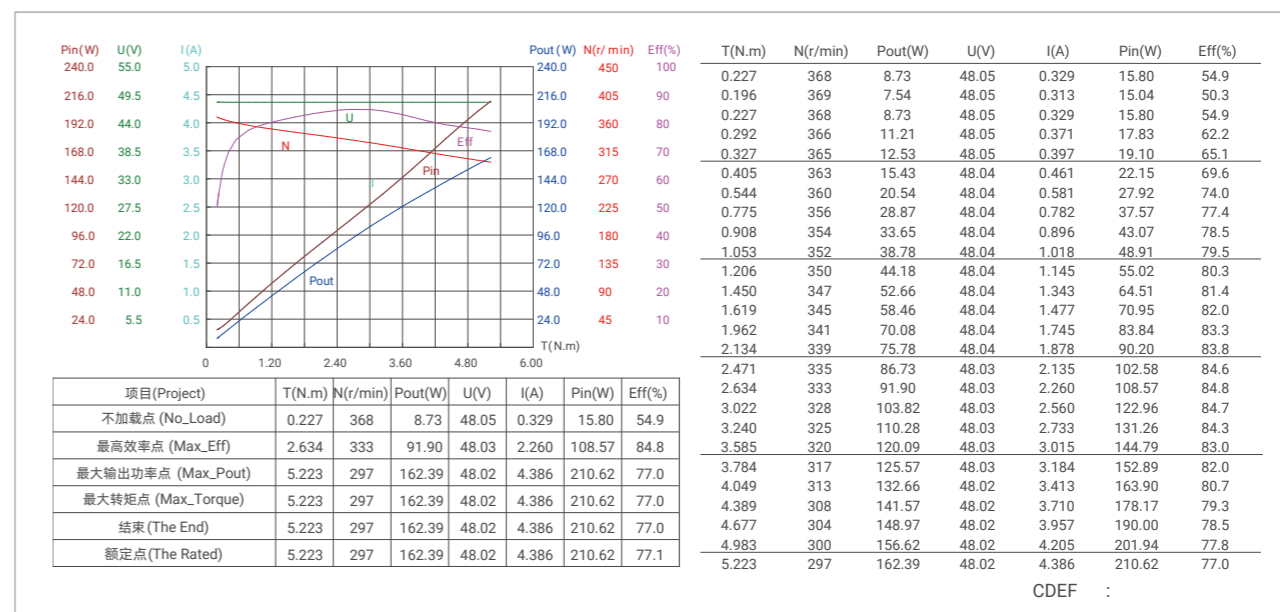
产品参数 Product Parameters

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	8
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.cm <sup>2</sup>	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)	-
		490
		/

\* 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, 电机扭矩在升温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-Pro-H 1:6 V3**  
电机简称 Motor Simplified Name  
**X8-20**

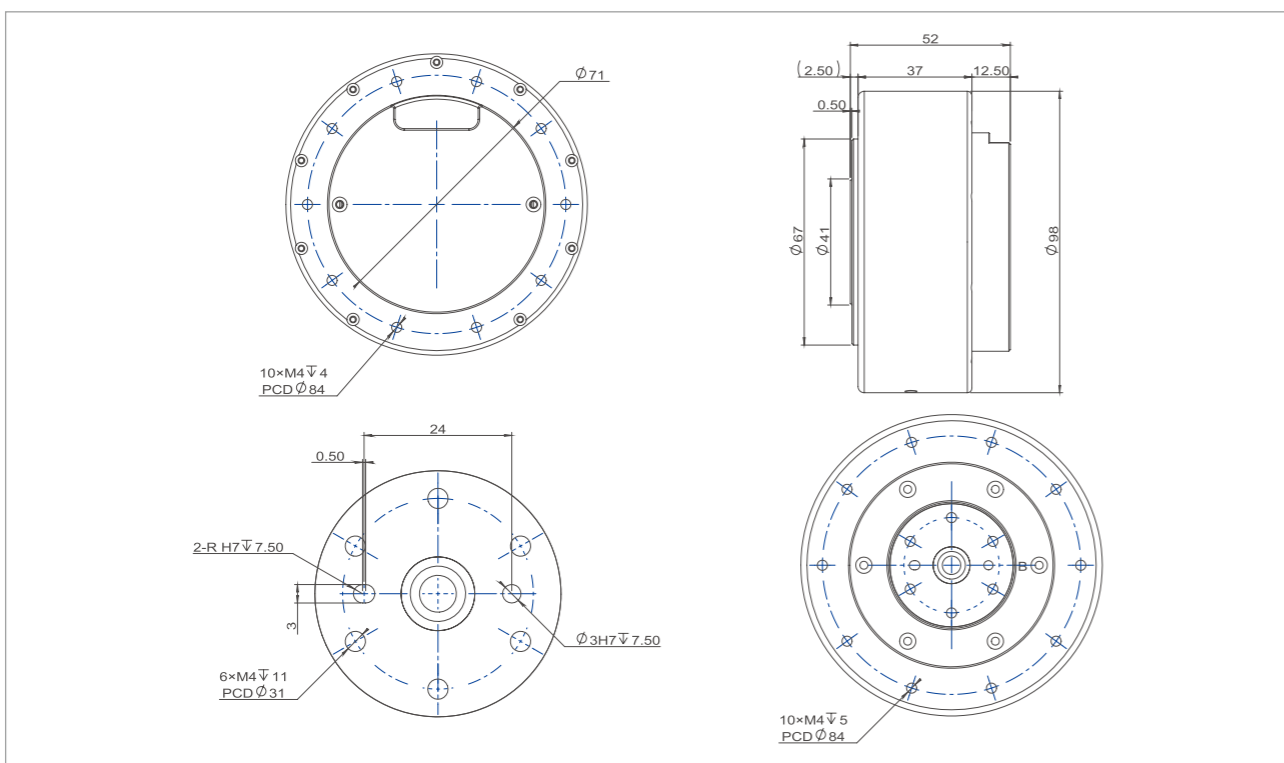


双编码器 Dual Encoder

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



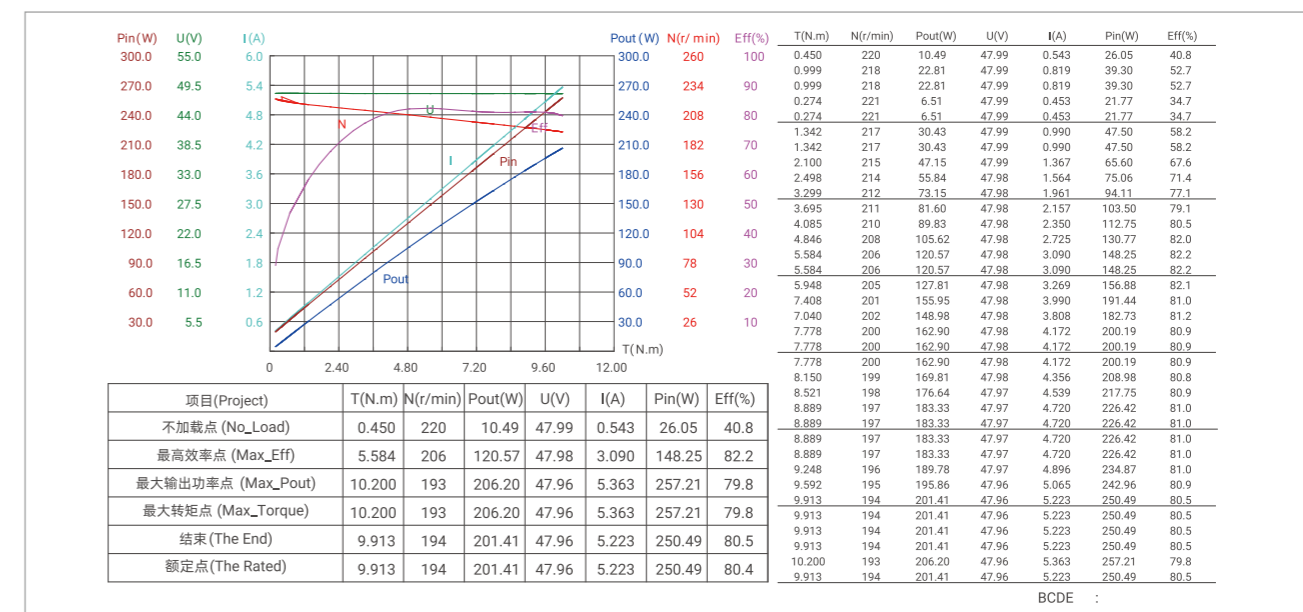
产品参数 Product Parameters

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.cm <sup>2</sup>	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



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**

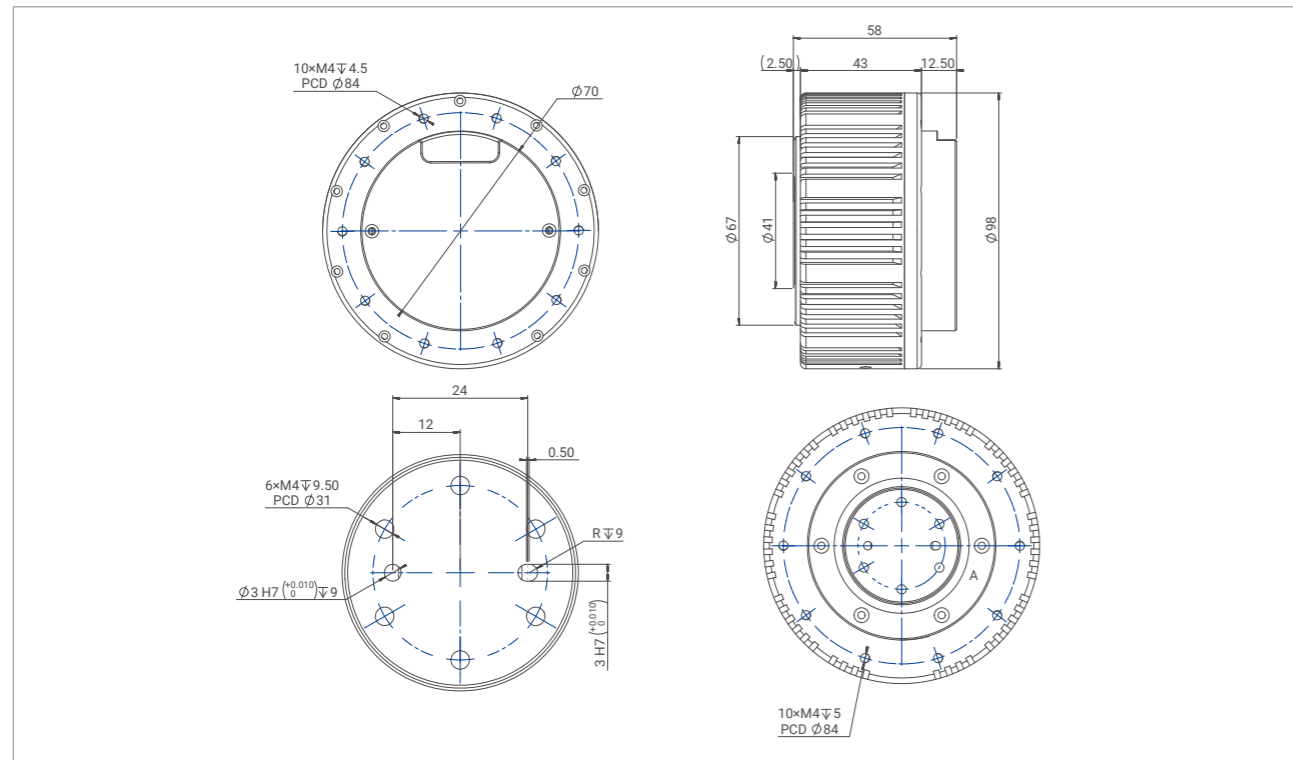


双编码器 Dual Encoder

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



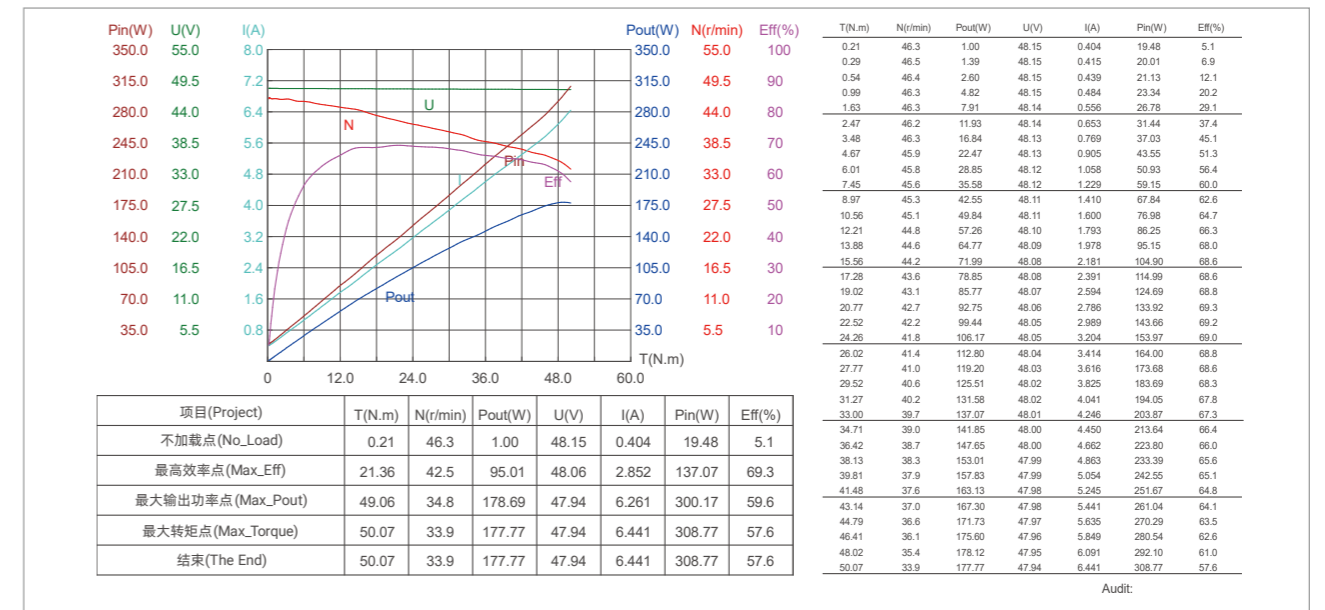
产品参数 Product Parameters

产品名称 Item Name	X8-60	
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer
减速机速比 Gear Ratio	-	36:1
输入电压 Input Voltage	V	48
额定功率 Rated Power	W	130
额定扭矩 Rated Torque	N.m	30
额定速度 Rated Speed	RPM	40
额定电流 Rated Current	A	4
峰值扭矩 Peak Torque	N.m	60
峰值电流 Peak Current	A	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	N	985
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm <sup>2</sup>	96
极对数 Pole Pair	-	20
反驱力 Back Drive Torque	N.m	1
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, 电机扭矩在升温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-X10 S2 1:35 V3**  
电机简称 Motor Simplified Name  
**X10-100**

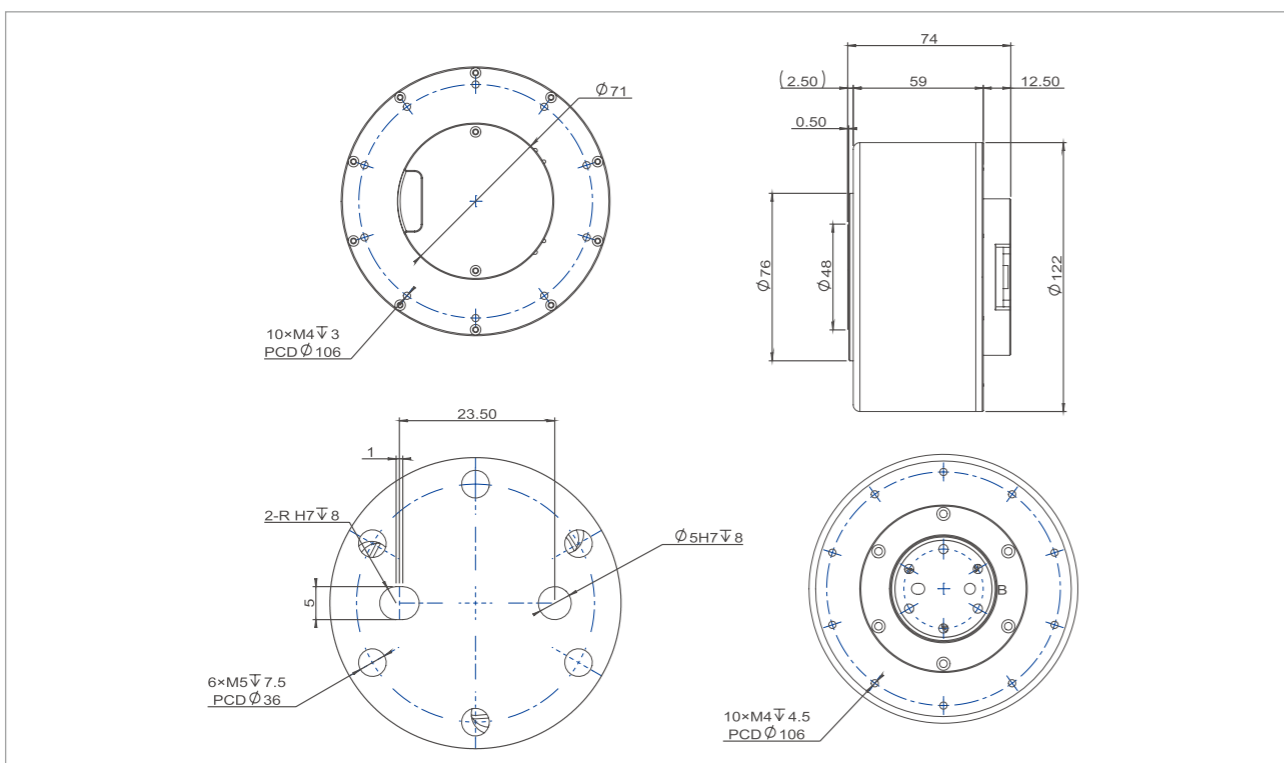


双编码器 Dual Encoder

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 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



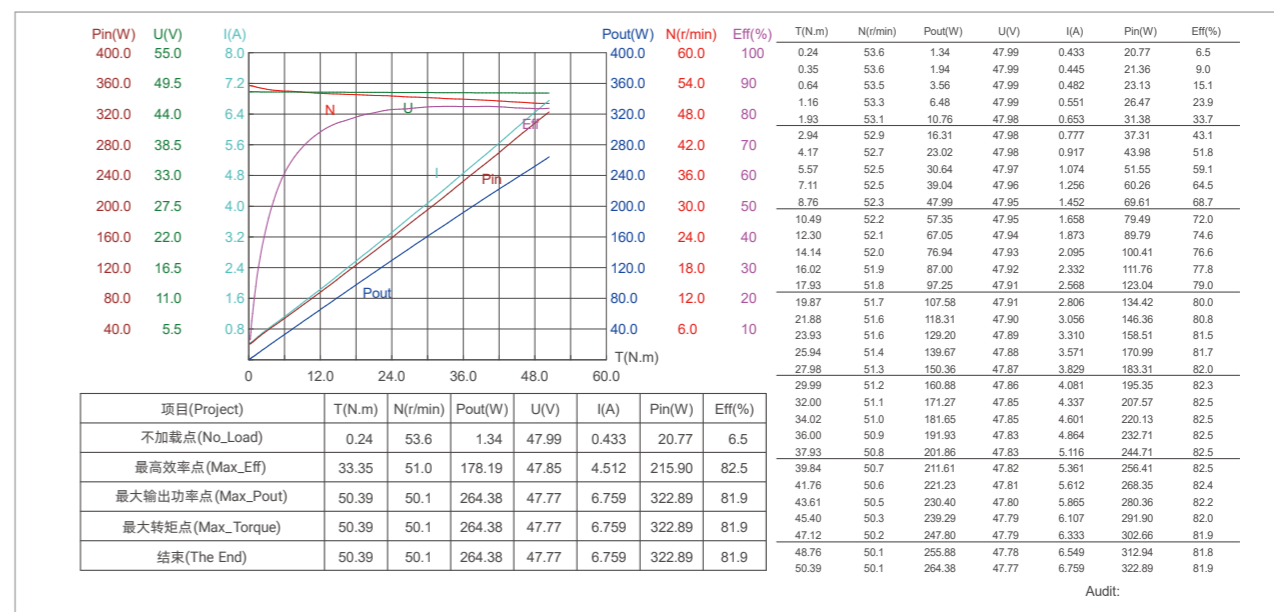
产品参数 Product Parameters

产品名称 Item Name	X10-100		
减速机类型 Reducer Type	-	行星减速机 Planetary Reducer	
减速机速比 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.cm <sup>2</sup>	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)	g	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, 电机扭矩在升温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 Series**

电机简称 Motor Simplified Name

**X4-24**



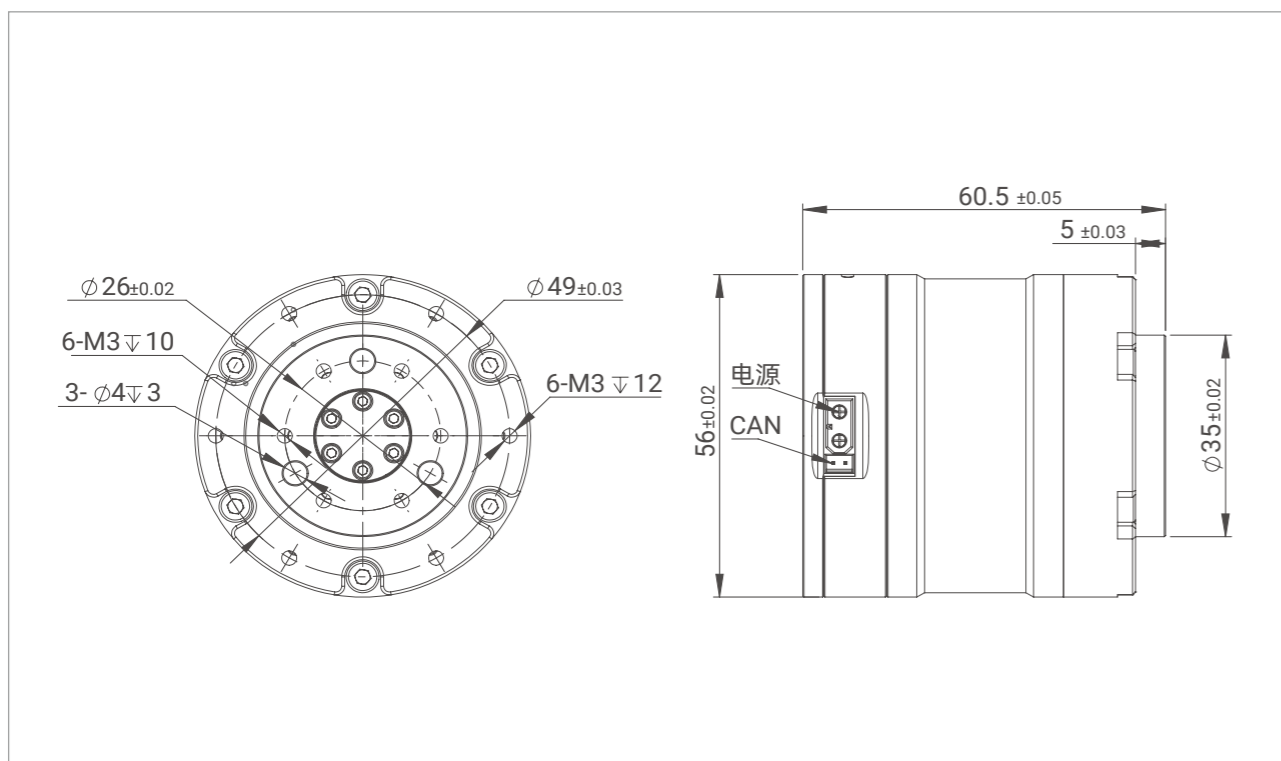
#### 双编码器 Dual Encoder

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.cm <sup>2</sup>	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 Series

电机简称 Motor Simplified Name

X8-90



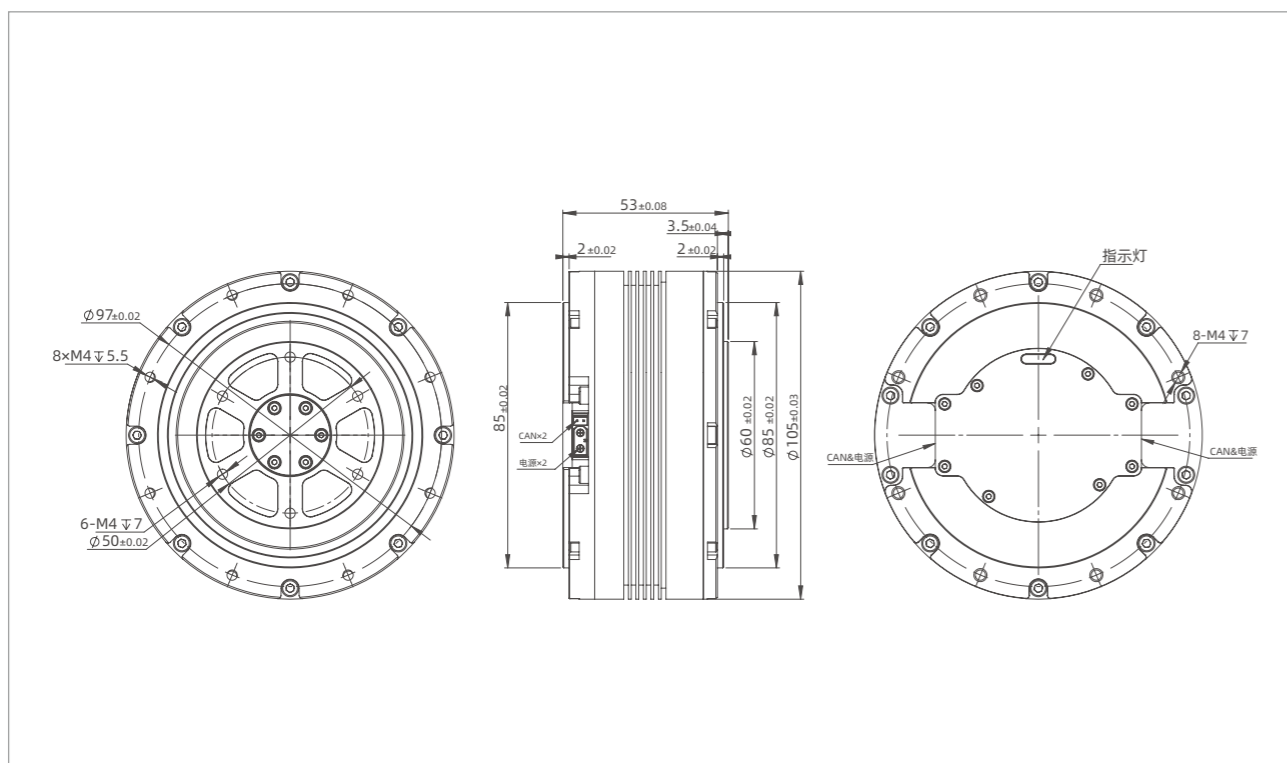
双编码器 Dual Encoder

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



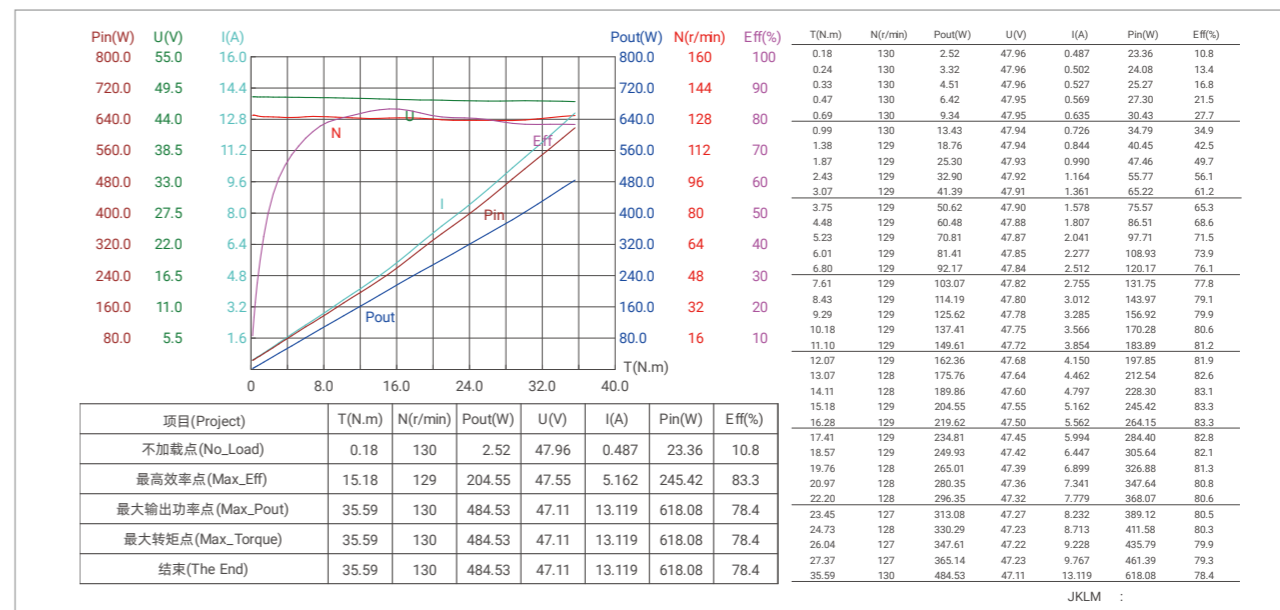
产品参数 Product Parameters

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.cm <sup>2</sup>	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 Series**

电机简称 Motor Simplified Name

**X12-150**



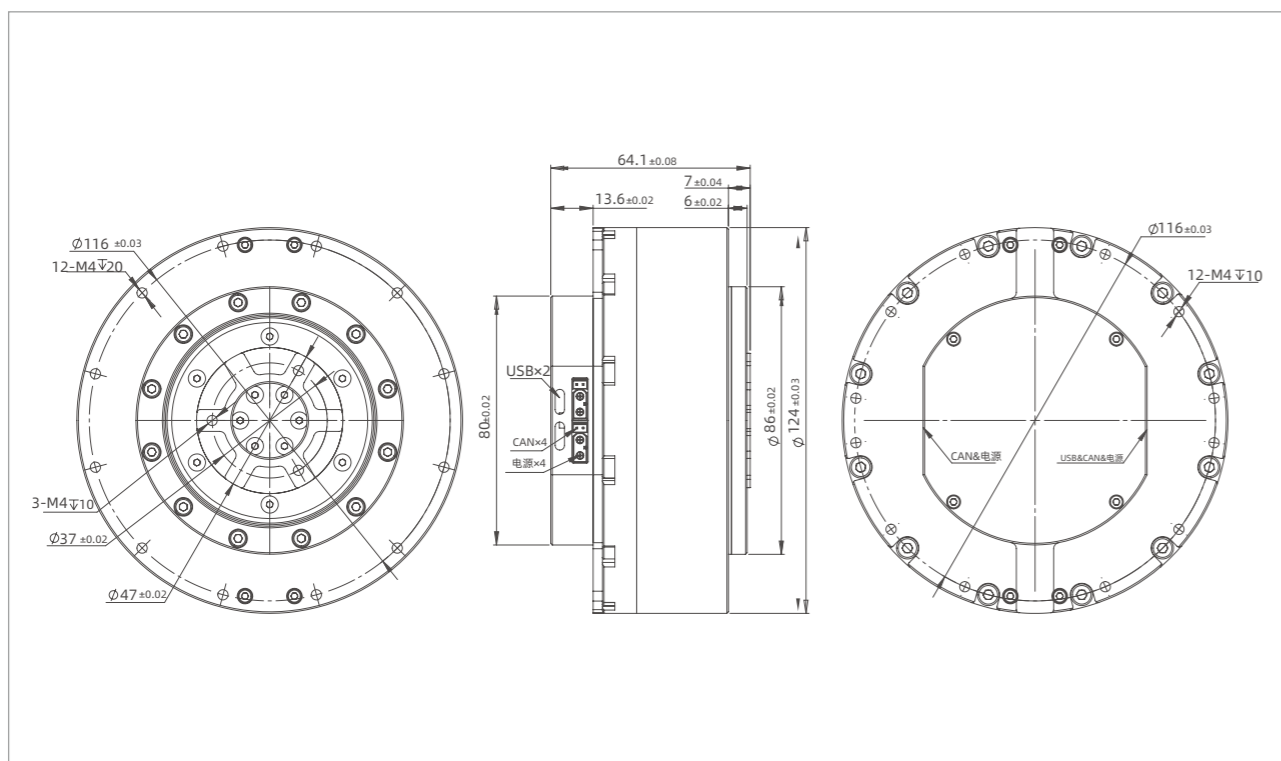
双编码器 Dual Encoder

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.cm <sup>2</sup>	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 Series

电机简称 Motor Simplified Name

X15-400



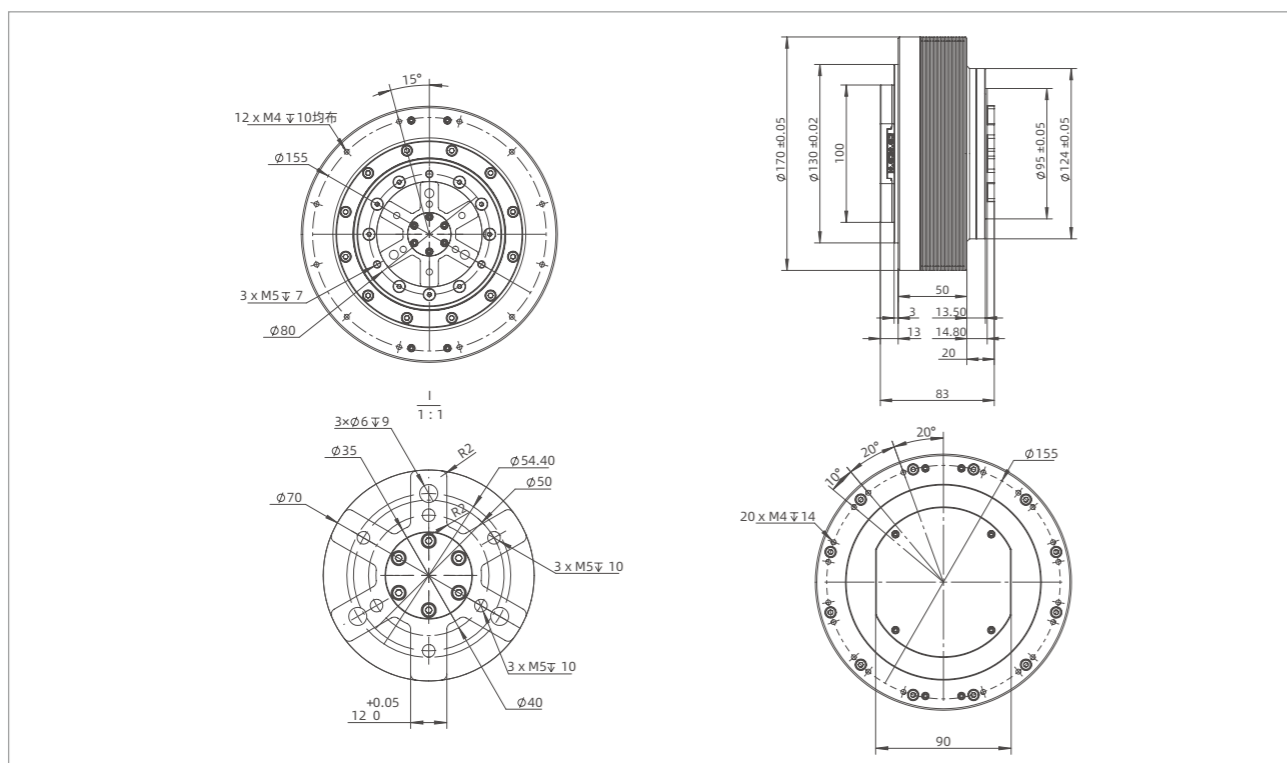
双编码器 Dual Encoder

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.cm <sup>2</sup>	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，电机扭矩在升温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.

一体化谐波模组  
Integrated Harmonic Module

# RH中空-系列

## RH -Harmonic-Series

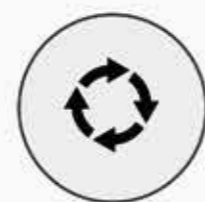
一体化设计、耐振动  
Integrated Design、Vibration Resistance



### 懂你的心 更懂如何用心

Understand what you need in heart and  
know how to make effort diligently

||



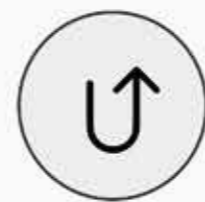
低速稳  
STABLE AT LOW SPEED



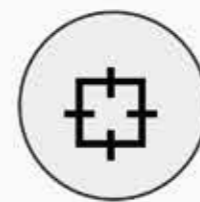
低噪音  
LOW NOISE



高精度  
HIGH PRECISION



承载力强  
STRONG CARRYING CAPACITY



精准控制  
PRECISE CONTROL



便捷操作  
EASY TO OPERATE

EPS-RH系列产品命名规则  
EPS-RH SERIES NAMING CONVENTIONS

DIVERSIFIED APPLICATION SCENARIOS

# 多元化适用场景

## EPS-RH-14-100-C-B



- ① 品牌名称: EPS  
Brand Name E-Efficiency P-Precision S-Smart
- ② 中空谐波模组  
Hollow harmonic module
- ③ 谐波型号 例如: 14 17 20 25 32等  
Harmonic Model e.g:14 17 20 25 32 etc
- ④ 减速比 1:100  
Reduction ratio 1:100
- ⑤ 通信方式 C: CAN bus R: RS485 E: Ethercat  
Communication C: CAN bus R: RS485 E: Ethercat
- ⑥ N: 无抱闸 B: 有抱闸  
N: Without Brake B: with Brake

例如 For example

型号 EPS-RH-20-100-C-B

说明  
 EPS: 品牌名  
 RH: 中空谐波模组  
 20: 谐波型号  
 100: 谐波减速比100:1  
 C: CAN bus 通信  
 B: 有抱闸

Model EPS-RH-20-100-C-B

Illustrate  
 EPS: Brand Name  
 RH: Hollow harmonic module  
 20: Harmonic model  
 100: Harmonic gear ratio 100:1  
 C: Communication C: CAN bus  
 B: With Brake



机械臂  
Robotic Arm



食品加工设备  
Food Processing



医疗器械  
Medical Equipment



数控铣床  
CNC Bed



造船工业  
Shipbuilding Industry



航空工业  
Aviation Industry

系列名 Series Name

EPS-RH

电机简称 Motor Simplified Name

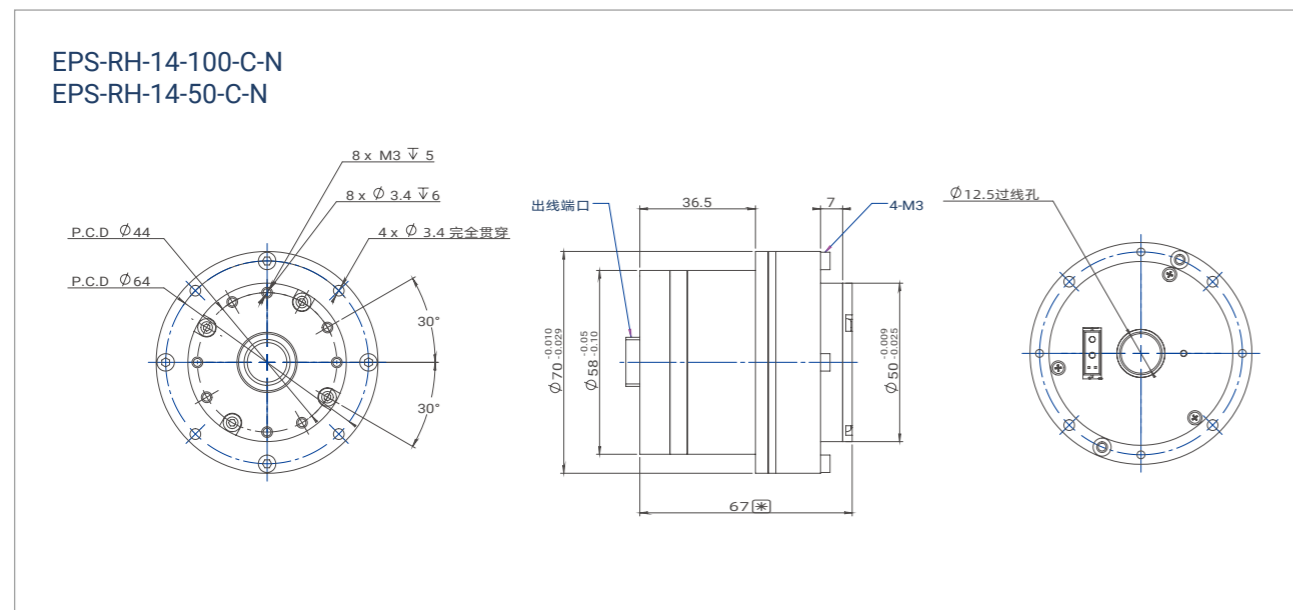
RH-14



离轴编码器 Off Axis Encoder

型号 Actuator Full Name	货品编码 Product Code	抱闸/非抱闸 With Brake/Without Brake
ESP-RH-14-100-R-N	1103011000220100	N (without brake)
ESP-RH-14-100-C-N	1103011000120100	N (without brake)
ESP-RH-14-50-R-N	1103010500220100	N (without brake)
ESP-RH-14-50-C-N	1103010500120100	N (without brake)

尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	RH-14		
减速机类型 Reducer type	-	谐波减速机, Harmonic reducer	
减速比 Gear Ratio	-	1:50	1:100
峰值扭矩 Peak Torque(start& stop)	N.m	18	28
额定扭矩 Rated Torque	N.m	7	11
峰值转速 Peak Speed	RPM	60	30
额定转速 Rated Speed	RPM	50	25
峰值电流 Peak current	A	3.5	3.5
额定电流 Rated current	A	1.5	1.5
额定电压 Rated voltage	V	48	48
额定功率 Motor Rated Power	W	100	100
线电阻 line to line resistance	ohms@20 C	0.9	0.9
相间电感 line to line inductance	mH	0.4	0.4
反向电动势 Back EMF	Vrms/KRPM	5.6	5.6
单方向精度背隙 Single Direction Accuracy Arc Sec	Arc Sec	40	30
重复定位精度 Repetitive Positioning Accuracy	Arc Sec	15	10
编码器类型 Encoder Type	Rev	ABS-17bit	ABS-17bit
中空轴直径 Hollow Shaft Diameter	N (without brake)	mm	12.5
	B (with brake)	mm	/
惯量 Inertia	N (without brake)	Kg.m <sup>2</sup>	0.02
	B (with brake)	Kg.m <sup>2</sup>	/
重量 Weigth	N (without brake)	g	710
	B (with brake)	g	/
防水等级 IP Protection	需定制 Need customization	IP65	IP65

\* 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.

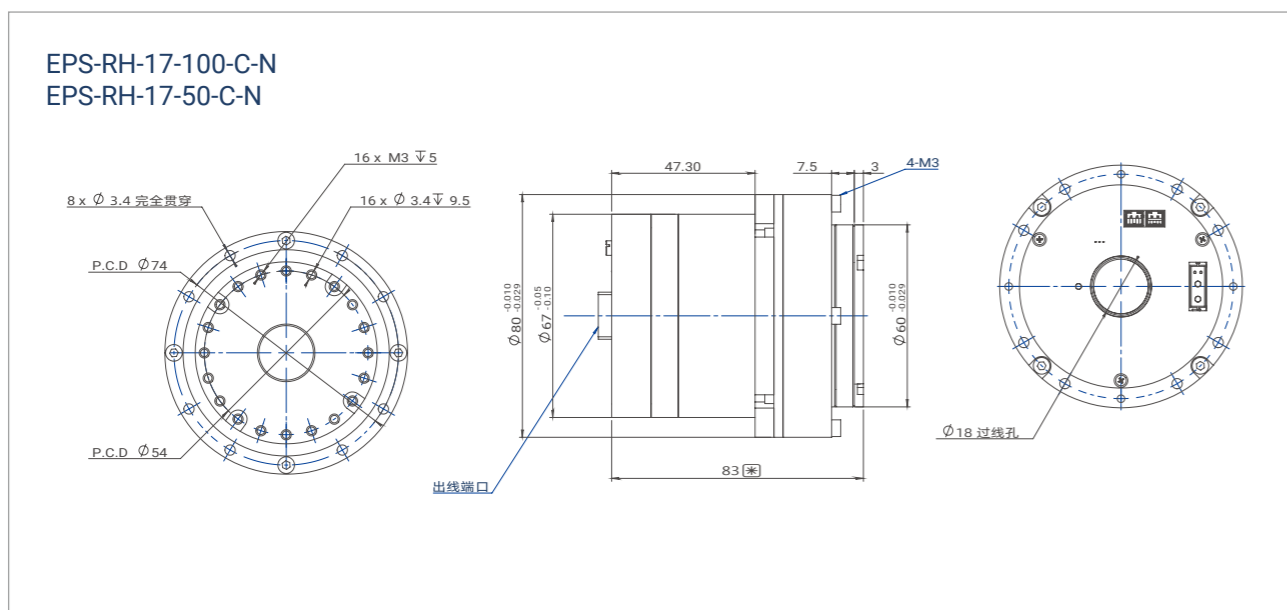
系列名 Series Name  
**EPS-RH**  
电机简称 Motor Simplified Name  
**RH-17**



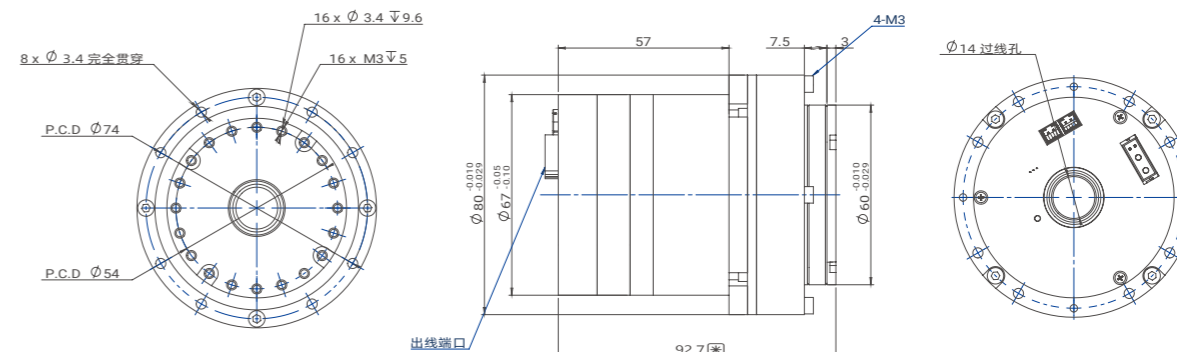
离轴编码器 Off Axis Encoder

型号 Actuator Full Name	货品编码 Product Code	抱闸/非抱闸 With Brake/Without Brake
ESP-RH-17-100-C-B	1103021000121100	B (with brake)
ESP-RH-17-100-C-N	1103021000120100	N (without brake)
ESP-RH-17-50-C-B	1103020500121100	B (with brake)
ESP-RH-17-50-C-N	1103020500120100	N (without brake)

### 尺寸安装图 Installation Drawing



EPS-RH-17-100-C-B  
EPS-RH-17-50-C-B



### 产品参数 Product Parameters

产品名称 Item Name	RH-17		
减速机类型 Reducer type	-	谐波减速机 Harmonic reducer	
减速比 Gear Ratio	-	1:50	1:100
峰值扭矩 Peak Torque(start& stop)	N.m	34	54
额定扭矩 Rated Torque	N.m	23	35
峰值转速 Peak Speed	RPM	60	30
额定转速 Rated Speed	RPM	50	25
峰值电流 Peak current	A	6.3	6.3
额定电流 Rated current	A	3.5	3.5
额定电压 Rated voltage	V	48	48
额定功率 Motor Rated Power	W	180	180
线电阻 line to line resistance	ohms@20 C	0.77	0.77
相间电感 line to line inductance	mH	0.38	0.38
反向电动势 Back EMF	Vrms/KRPM	7.30	7.30
单方向精度背隙 Single Direction Accuracy Arc Sec	Arc Sec	40	30
重复定位精度 Repetitive Positioning Accuracy	Arc Sec	15	10
编码器类型 Encoder Type	Rev	ABS-17bit	ABS-17bit
中空轴直径 Hollow Shaft Diameter	N (without brake)	mm	18
	B (with brake)	mm	14
惯量 Inertia	N (without brake)	Kg.m <sup>2</sup>	0.05
	B (with brake)	Kg.m <sup>2</sup>	0.07
重量 Weight	N (without brake)	g	1100
	B (with brake)	g	1250
防水等级 IP Protection	需定制 Need customization		IP65

\* 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, 电机扭矩在升温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.

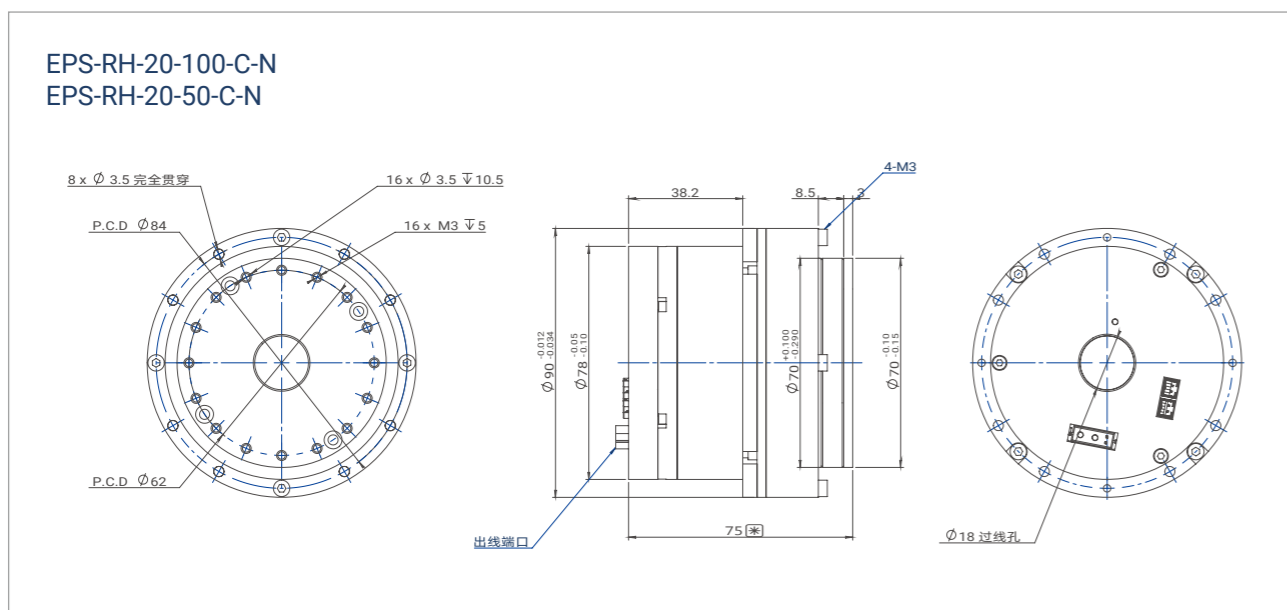
系列名 Series Name  
**EPS-RH**  
电机简称 Motor Simplified Name  
**RH-20**



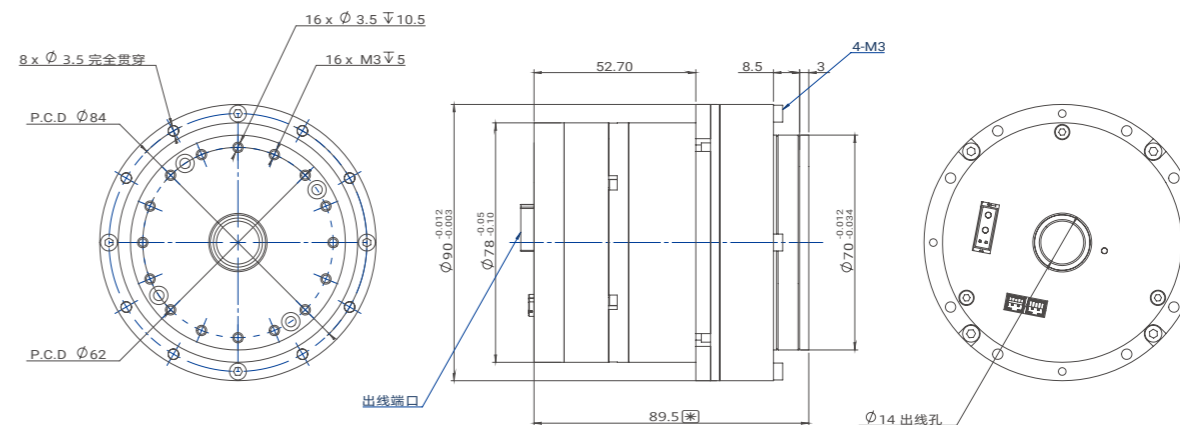
离轴编码器 Off Axis Encoder

型号 Actuator Full Name	货品编码 Product Code	抱闸/非抱闸 With Brake/Without Brake
ESP-RH-20-100-C-B	1103031000121100	B (with brake)
ESP-RH-20-100-C-N	1103031000120100	N (without brake)
ESP-RH-20-50-C-B	1103030500121100	B (with brake)
ESP-RH-20-50-C-N	1103030500120100	N (without brake)

尺寸安装图 Installation Drawing



EPS-RH-20-100-C-B  
EPS-RH-20-50-C-B



产品参数 Product Parameters

产品名称 Item Name	RH-20		
减速机类型 Reducer type	-	谐波减速机 Harmonic reducer	
减速比 Gear Ratio	-	1:50	1:100
峰值扭矩 Peak Torque(start& stop)	N.m	56	80
额定扭矩 Rated Torque	N.m	34	50
峰值转速 Peak Speed	RPM	60	30
额定转速 Rated Speed	RPM	50	25
峰值电流 Peak current	A	9.0	9.0
额定电流 Rated current	A	5.0	5.0
额定电压 Rated voltage	V	48	48
额定功率 Motor Rated Power	W	250	250
线电阻 line to line resistance	ohms@20 C	0.38	0.38
相间电感 line to line inductance	mH	0.33	0.33
反向电动势 Back EMF	Vrms/KRPM	7.00	7.00
单方向精度背隙 Single Direction Accuracy Arc Sec	Arc Sec	40	30
重复定位精度 Repetitive Positioning Accuracy	Arc Sec	15	10
编码器类型 Encoder Type	Rev	ABS-17bit	ABS-17bit
中空轴直径 Hollow Shaft Diameter	N (without brake)	mm	18
	B (with brake)	mm	14
惯量 Inertia	N (without brake)	Kg.m <sup>2</sup>	0.07
	B (with brake)	Kg.m <sup>2</sup>	0.08
重量 Weigth	N (without brake)	g	1450
	B (with brake)	g	1600
防水等级 IP Protection	需定制 Need customization		IP65

\* 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, 电机扭矩在升温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.

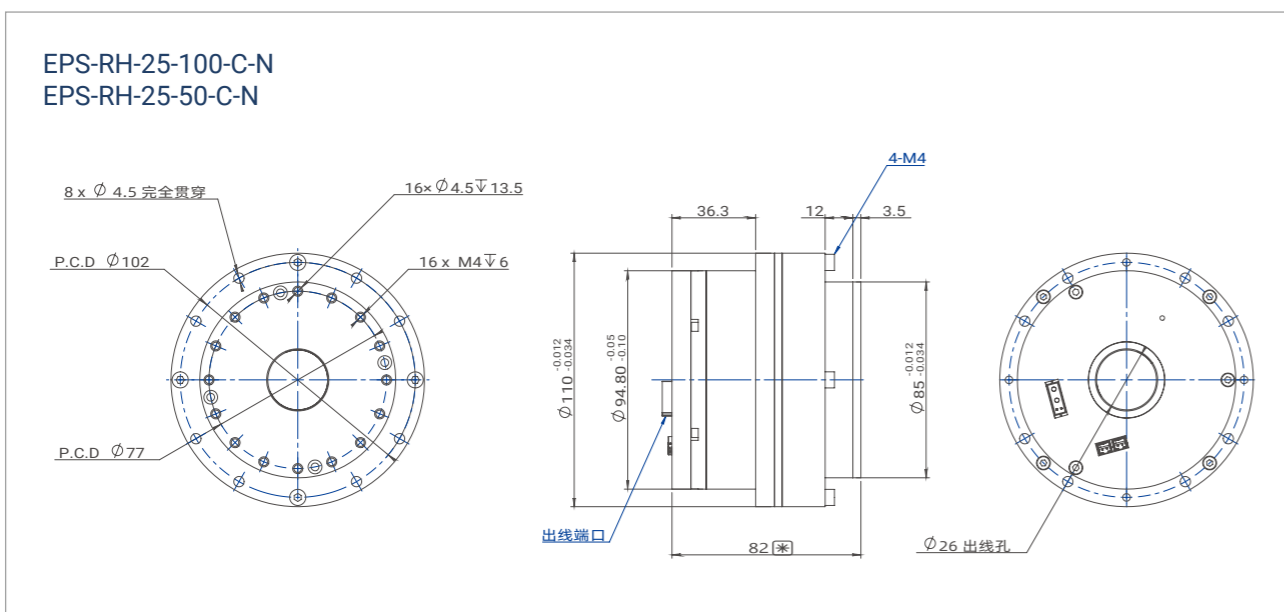
系列名 Series Name  
**EPS-RH**  
电机简称 Motor Simplified Name  
**RH-25**



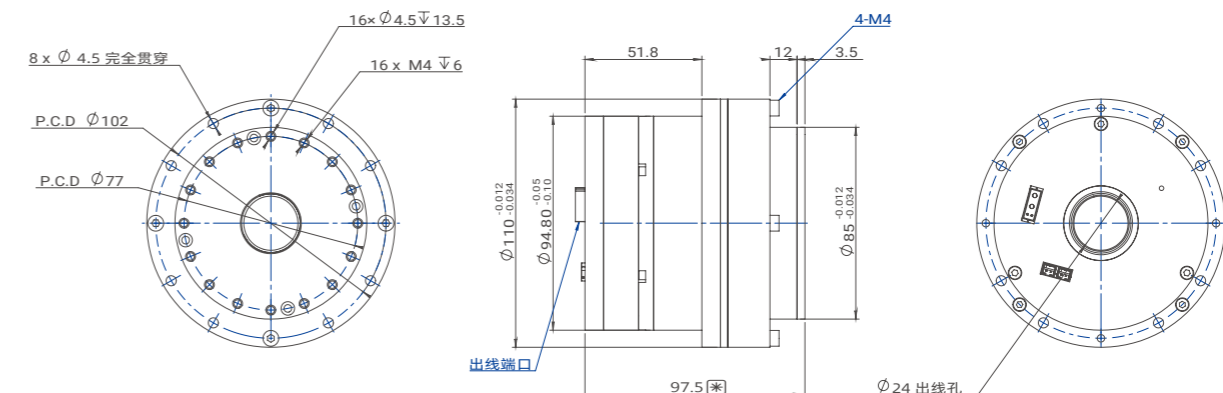
**离轴编码器 Off Axis Encoder**

型号 Actuator Full Name	货品编码 Product Code	抱闸/非抱闸 With Brake/Without Brake
ESP-RH-25-100-C-B	1103041000121100	B (with brake)
ESP-RH-25-100-C-N	1103041000021100	N (without brake)
ESP-RH-25-50-C-B	1103040500121100	B (with brake)
ESP-RH-25-50-C-N	1103040500021100	N (without brake)

**尺寸安装图 Installation Drawing**



EPS-RH-25-100-C-B  
EPS-RH-25-50-C-B



**产品参数 Product Parameters**

产品名称 Item Name	RH-25		
减速机类型 Reducer type	-	谐波减速机Harmonic reducer	
减速比 Gear Ratio	-	1:50	1:100
峰值扭矩 Peak Torque(start& stop)	N.m	98	157
额定扭矩 Rated Torque	N.m	55	108
峰值转速 Peak Speed	RPM	45	30
额定转速 Rated Speed	RPM	40	25
峰值电流 Peak current	A	14.0	14.0
额定电流 Rated current	A	6.8	6.8
额定电压 Rated voltage	V	48	48
额定功率 Motor Rated Power	W	400	400
线电阻 line to line resistance	ohms@20 C	0.23	0.23
相间电感 line to line inductance	mH	0.30	0.30
反向电动势 Back EMF	Vrms/KRPM	9.80	9.80
单方向精度背隙 Single Direction Accuracy Arc Sec	Arc Sec	40	30
重复定位精度 Repetitive Positioning Accuracy	Arc Sec	15	10
编码器类型 Encoder Type	Rev	ABS-17bit	ABS-17bit
中空轴直径 Hollow Shaft Diameter	N (without brake)	mm	26
	B (with brake)	mm	24
惯量 Inertia	N (without brake)	Kg.m <sup>2</sup>	0.17
	B (with brake)	Kg.m <sup>2</sup>	0.21
重量 Weigth	N (without brake)	g	2300
	B (with brake)	g	2820
防水等级 IP Protection	需定制 Need customization		IP65

\* 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, 电机扭矩在升温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.

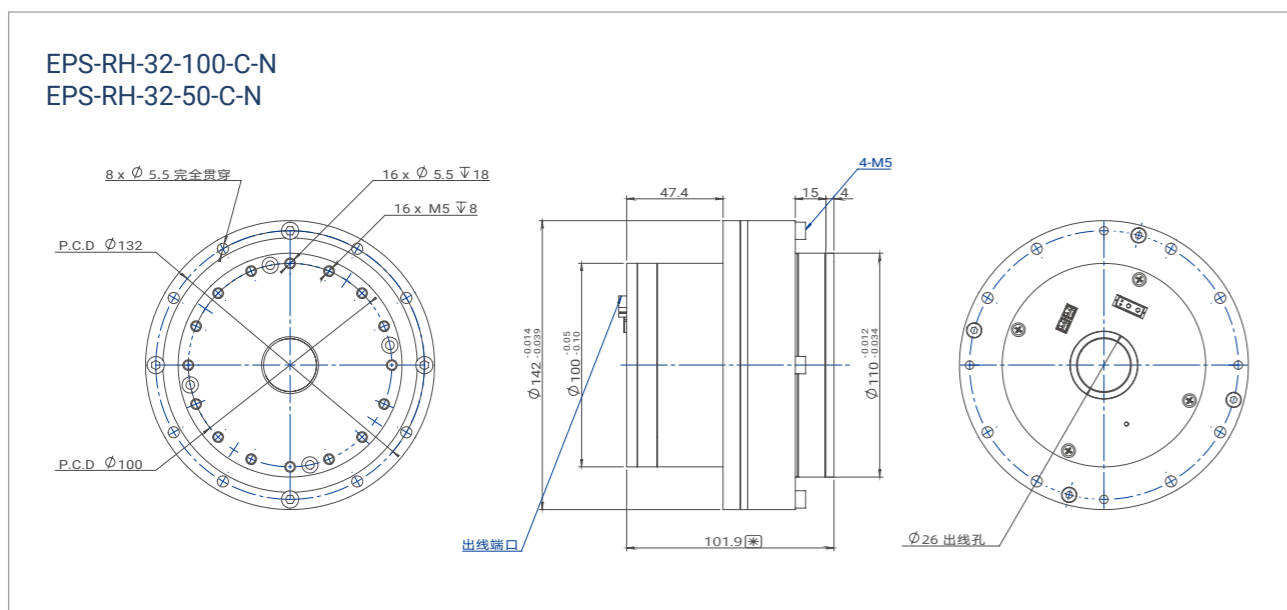
系列名 Series Name  
**EPS-RH**  
电机简称 Motor Simplified Name  
**RH-32**



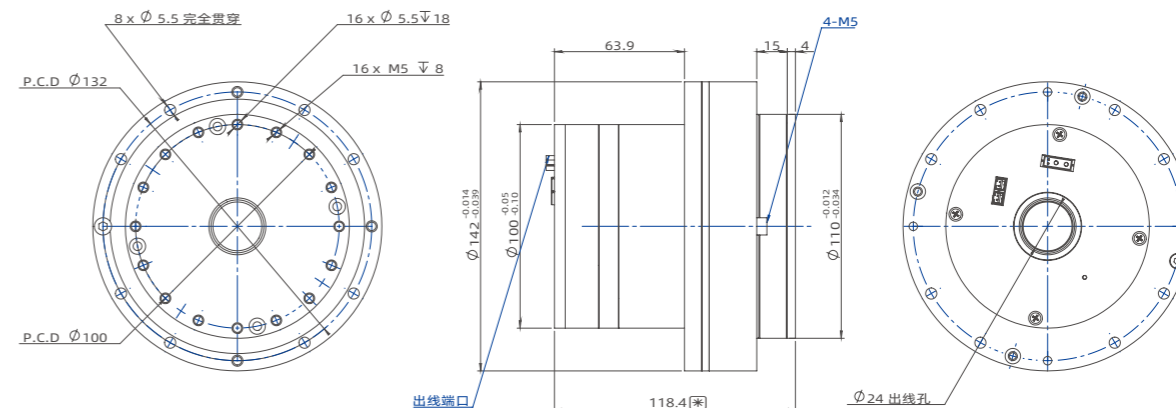
**离轴编码器 Off Axis Encoder**

型号 Actuator Full Name	货品编码 Product Code	抱闸/非抱闸 With Brake/Without Brake
ESP-RH-32-100-C-B	1103051000121100	B (with brake)
ESP-RH-32-100-C-N	1103051000021100	N (without brake)
ESP-RH-32-50-C-B	1103050500121100	B (with brake)
ESP-RH-32-50-C-N	1103050500021100	N (without brake)

**尺寸安装图 Installation Drawing**



EPS-RH-32-100-C-B  
EPS-RH-32-50-C-B



**产品参数 Product Parameters**

产品名称 Item Name	RH-32		
减速机类型 Reducer type	-	谐波减速机Harmonic reducer	
减速比 Gear Ratio	-	1:50	1:100
峰值扭矩 Peak Torque(start& stop)	N.m	216	330
额定扭矩 Rated Torque	N.m	105	215
峰值转速 Peak Speed	RPM	40	20
额定转速 Rated Speed	RPM	35	18
峰值电流 Peak current	A	25.0	25.0
额定电流 Rated current	A	11.5	11.5
额定电压 Rated voltage	V	48	48
额定功率 Motor Rated Power	W	700	700
线电阻 line to line resistance	ohms@20 C	0.09	0.09
相间电感 line to line inductance	mH	0.13	0.13
反向电动势 Back EMF	Vrms/KRPM	8.30	8.30
单方向精度背隙 Single Direction Accuracy Arc Sec	Arc Sec	40	30
重复定位精度 Repetitive Positioning Accuracy	Arc Sec	15	10
编码器类型 Encoder Type	Rev	ABS-17bit	ABS-17bit
中空轴直径 Hollow Shaft Diameter	N (without brake)	mm	26
	B (with brake)	mm	24
惯量 Inertia	N (without brake)	Kg.m <sup>2</sup>	0.53
	B (with brake)	Kg.m <sup>2</sup>	0.58
重量 Weigth	N (without brake)	g	4300
	B (with brake)	g	4700
防水等级 IP Protection	需定制 Need customization		IP65

\* 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, 电机扭矩在升温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.



# INTEGRATED CYCLOIDAL ACTUATOR CEM一体化摆线模组

## CEM-30

全新产品，颠覆未来。  
助力机器人厂商创造极致产品！

- New products, subverting the future.
- Support robot company to create the ultimate products!



# CEM一体化摆线模组 INTEGRATED CYCLOIDAL ACTUATOR



自重扭矩密度 Self-weight torque density :	50Nm/Kg
功率扭矩密度 Power torque density :	500Nm/Kw
超短通讯周期 Communication cycle WIFI version :	<100us
超轻量化设计 Ultra lightweight design :	730g
超集成设计 Integrated design :	76mm(DD)
超高通讯速率WIFI版本 Ultra-high communication rate WIFI version :	150Mb/s

DIVERSIFIED APPLICATION SCENARIOS

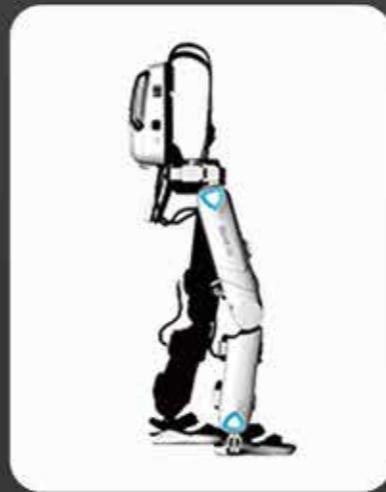
# 多元化适用场景



机械臂  
ROBOT ARM



人形机器人  
HUMANOID ROBOT



外骨骼机器人  
EXOSKELETON ROBOT

- 超高扭矩密度 (Ultra torque density)
- 超高机构通讯速率 (Ultra-high communication speed)
- 超短通讯周期 (Super short communication cycle)
- 超轻量化设计 (Extream lightweight design)

## EPS-CEM系列产品命名规则

EPS-CEM SERIES NAMING CONVENTIONS

### EPS-CEM-30-C-B

①                    ②                    ③                    ④                    ⑤

- ① 品牌名称: EPS  
Brand Name E-Efficiency P-Precision S-Smart
- ② CEM代表系列名: 智能关节模组  
CEM Stands For The Series Name: Cycloidal Engine Module
- ③ 额定扭矩 30N.m  
Rated torque 30N.m
- ④ 通信方式 C: CANBUS R: RS485 E: Ethercat  
Methods Of Communication C: CANBUS R: RS485 E: Ethercat
- ⑤ N: 无抱闸 B: 有抱闸  
N: Without Brake B: with Brake

例如 For example

型号	EPS-CEM-30-C-B
说明	EPS: 品牌名 CEM: 智能关节模组 30: 额定扭矩 C: CAN bus 通信 B: 有抱闸

Model	EPS-CEM-30-C-B
Illustrate	EPS: Brand Name CEM: Cycloidal Engine Module 30: Rated torque C: Communication C: CAN bus B: With Brake

系列名 Series Name

**EPS-CEM**

电机简称 Motor Simplified Name

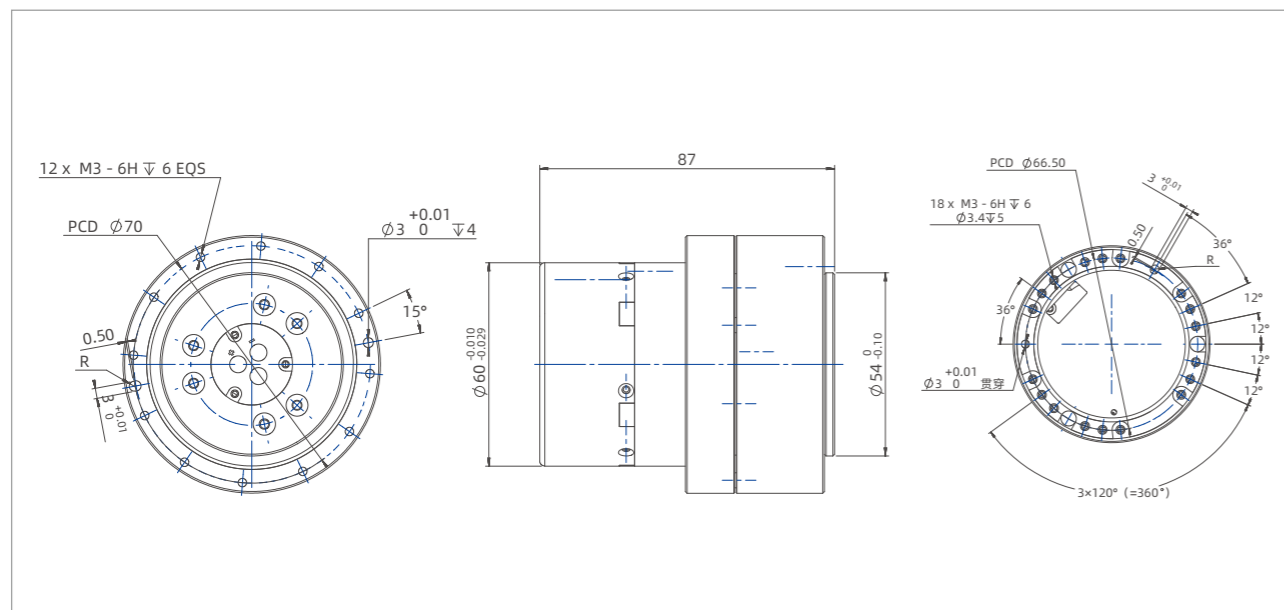
**CEM-30**



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
EPS-CEM-30-C-B	1104010000121100	B (with brake)
EPS-CEM-30-R-B	1104010000221100	B (with brake)

### 尺寸安装图 Installation Drawing



### 产品参数 Product Parameters

产品名称 Item Name		CEM-30
减速机类型 Reducer type	-	智能减速机 Smart joint reducer
额定电压 Nominal Voltage	V	24
额定电流 Rated Current	A	2.5
最高瞬时电流 Highest instantaneous current	A	5(≤10s)
额定功耗 Rated Power	W	60
通讯方式 Communication Mode	-	CAN
额定扭矩 Nominal Torque	N.m	30
最高瞬时扭矩 Max Instaneous Torque	N.m	50(≤10s)
额定输出转速 Rated output speed	RPM	15
最高峰值转速 Maximum peak speed	RPM	20
最高重复定位精度 Repeat Positioning Accuracy	-	0.01
外形尺寸 Dimensions	mm	D76*90
电机重量 Motor weight	g	730

# RMD-L-系列

## RMD-L-SERIES

驱动一体 大扭矩 高转速

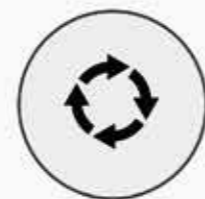
Integrated Drive With High Torque And High Speed



## 六大核心优势

Six core advantages

11



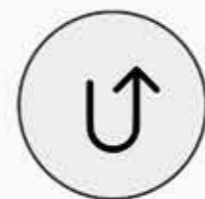
高顺滑度  
HIGH SMOOTHNESS



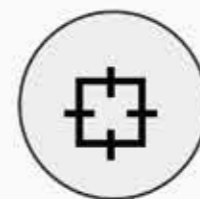
低噪音  
LOW NOISE



高效率  
HIGH EFFICIENCY



承载力强  
STRONG CARRYING CAPACITY



精准控制  
PRECISE CONTROL



便捷操作  
EASY TO OPERATE

## RMD-L系列产品命名规则

RMD-L SERIES NAMING CONVENTIONS

DIVERSIFIED APPLICATION SCENARIOS

# 多元化适用场景



机械臂  
Robotic Arm



管道机器人  
Pipe Robot



外骨骼机器人  
Exoskeleton Robot



激光雷达  
Lidar



AGV智能卡车  
AGV smart truck



云台  
Gimbal

## RMD-L-4005-100-C

① ② ③ ④ ⑤

- ① 品牌名称: RMD (Reducer Motor Drive)  
Brand Name R-Reducer M-Motor D-Drive
- ② L代表直驱系列  
L Stands For The Direct Drive Series
- ③ 4015代表基座号 例如: 4005 5005 7015等  
4015 represent motor model number e.g: 4005 5005 7015 etc
- ④ 额定功率 100w  
Rated Power 100w
- ⑤ 通信方式 C: CAN bus R: RS485 E: Ethercat  
Communication C: CAN bus R: RS485 E: Ethercat

例如 For example

型号 RMD-L-5005-100-C

说明  
RMD: 品牌名  
L: 直驱系列  
5005: 基座号  
100: 额定功率  
C: CAN bus 通信

Model RMD-L-5005-100-C

Illustrate  
RMD: Brand Name  
L: Direct Drive Series  
5005: Planetary Gear Ratio 5005  
100: Rated Power  
C: Communication C: CAN bus

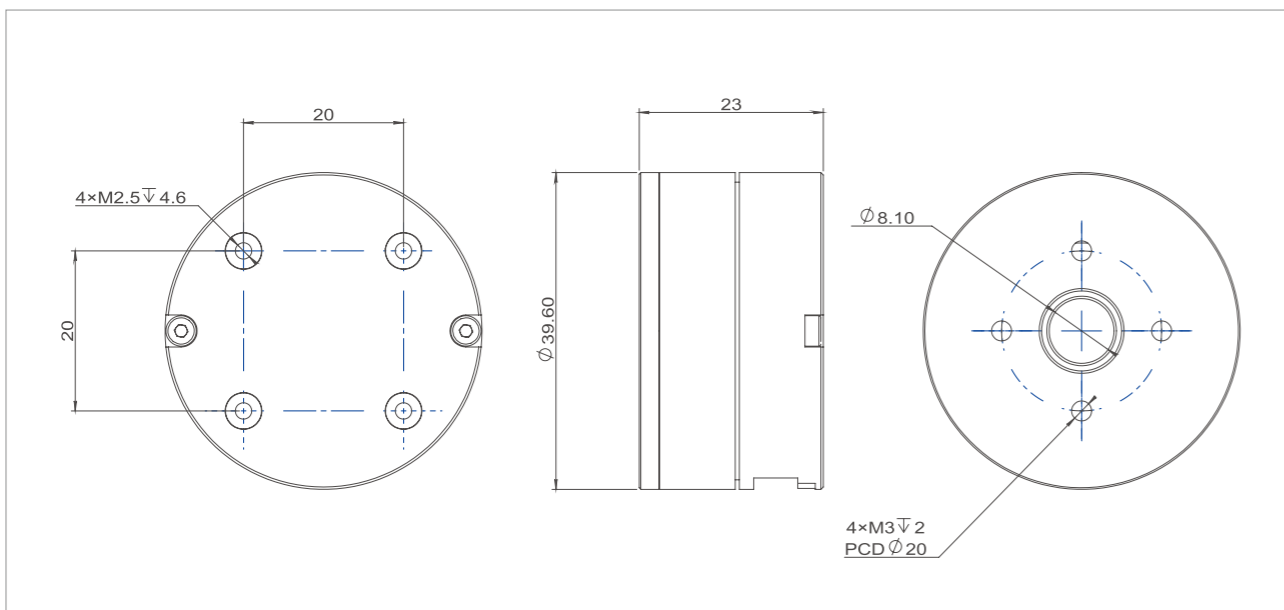
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-4005**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-4005 25T	MC CAN	110102062506
	MC RS485	110102062505

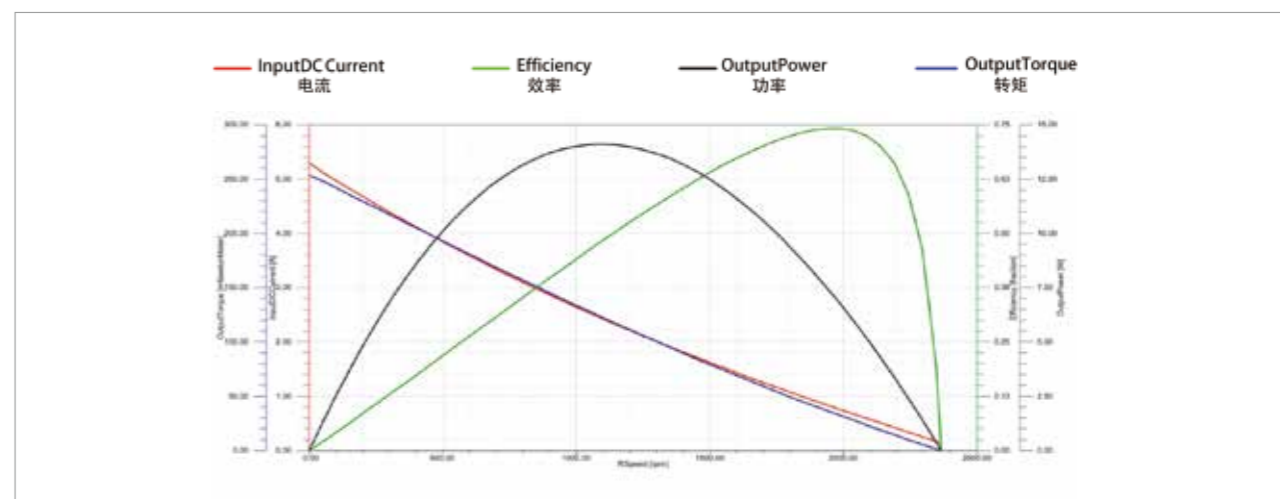
尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	L-4005	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	12
额定电流 Nominal Current	A	1.44
额定扭矩 Nominal Torque	N.M	0.07
额定转速 Nominal Speed	RPM	1600
最大空载转速 Max Speed	RPM	2390
最大瞬时扭矩 Max Instant Torque	N.M	0.25
最大瞬时电流 Max Instant Current	A	5.8
线电阻 Line Resistance	Ω	1.9
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	0.5
转速常数 Speed Constant	RPM/V	199
扭矩常数 Torque Constant	N.M/A	0.05
转子惯量 Rotor Inertia	gcm <sup>2</sup>	56
极对数 Number of Pole Pairs	-	13
电机重量 Motor Weight	g	65
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	8~24
驱动器电流范围 Current	A	Normal:5A Instant:8A
额定功率 Normminal Power	W	100
编码器精度 Encoder	-	18-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

电机特征曲线 Motor Characteristic Curve



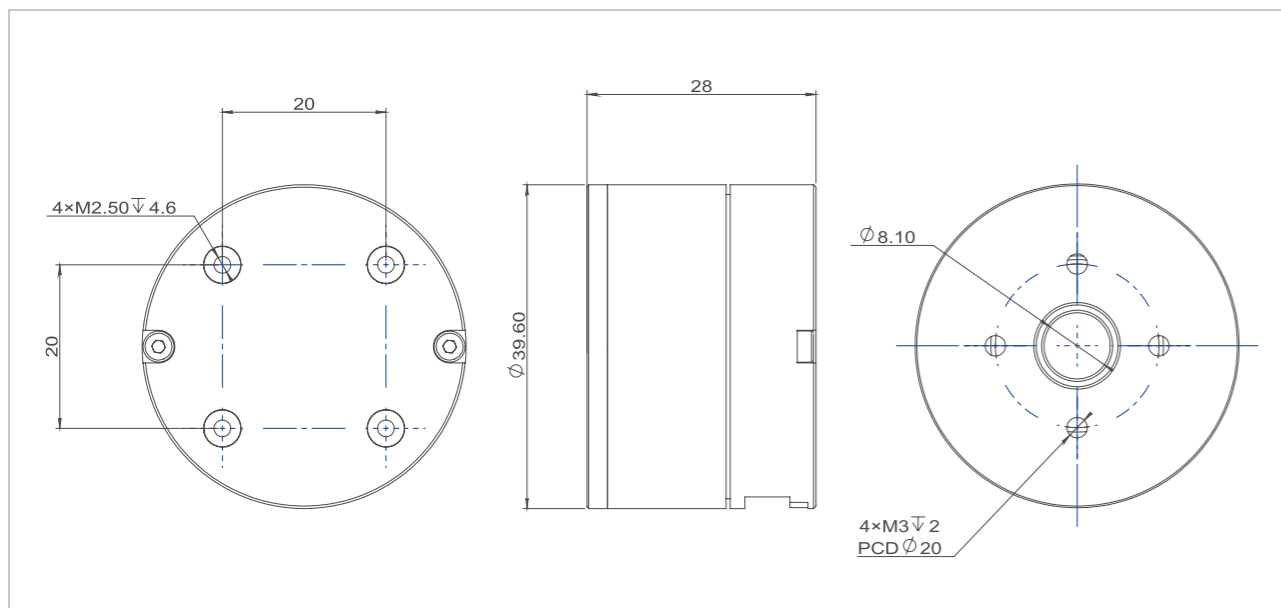
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-4010**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-4010 27T	MC CAN	110102072706
	MC RS485	110102072705

### 尺寸安装图 Installation Drawing



### 产品参数 Product Parameters

产品名称 Item Name	L-4010	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	12
额定电流 Nominal Current	A	1.43
额定扭矩 Nominal Torque	N.M	0.15
额定转速 Nominal Speed	RPM	560
最大空载转速 Max Speed	RPM	1120
最大瞬时扭矩 Max Instant Torque	N.M	0.33
最大瞬时电流 Max Instant Current	A	3.2
线电阻 Line Resistance	Ω	3
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	1
转速常数 Speed Constant	RPM/V	93
扭矩常数 Torque Constant	N.M/A	0.1
转子惯量 Rotor Inertia	gcm <sup>2</sup>	81
极对数 Number of Pole Pairs	-	13
电机重量 Motor Weight	g	92
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	8~24
驱动器电流范围 Current	A	Normal:5A Instant:8A
额定功率 Normminal Power	W	100
编码器精度 Encoder	-	14-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

### 电机特征曲线 Motor Characteristic Curve



系列名 Series Name

**RMD-L**

电机简称 Motor Simplified Name

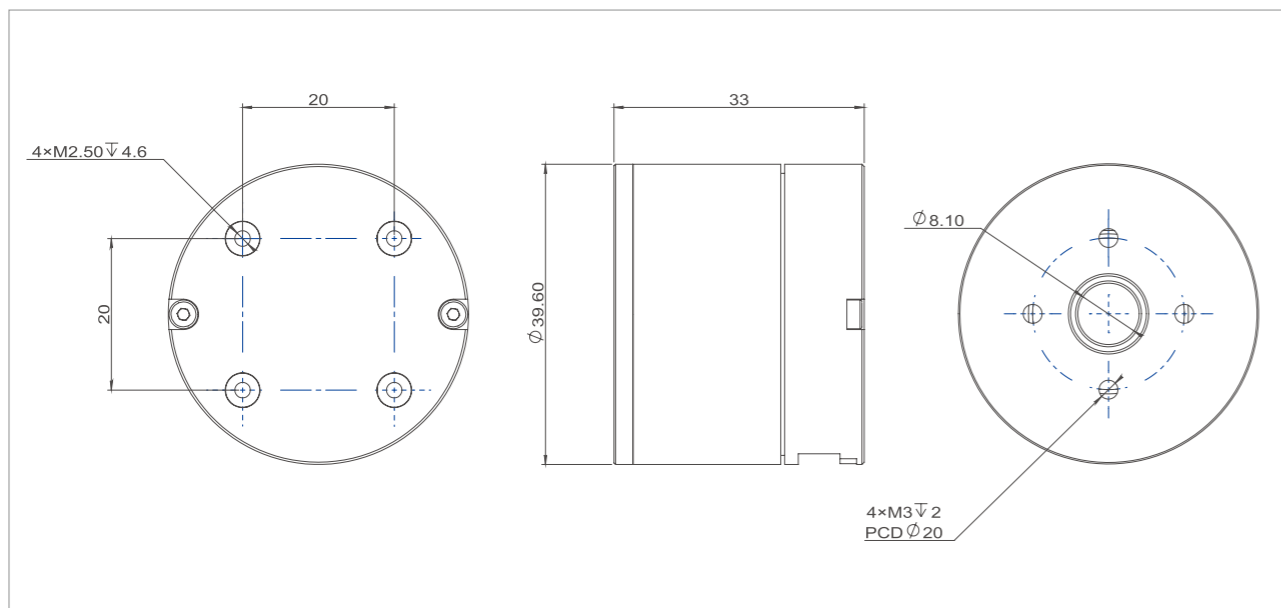
**L-4015**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-4015 20T	MC CAN	110102082006
	MC RS485	110102082005

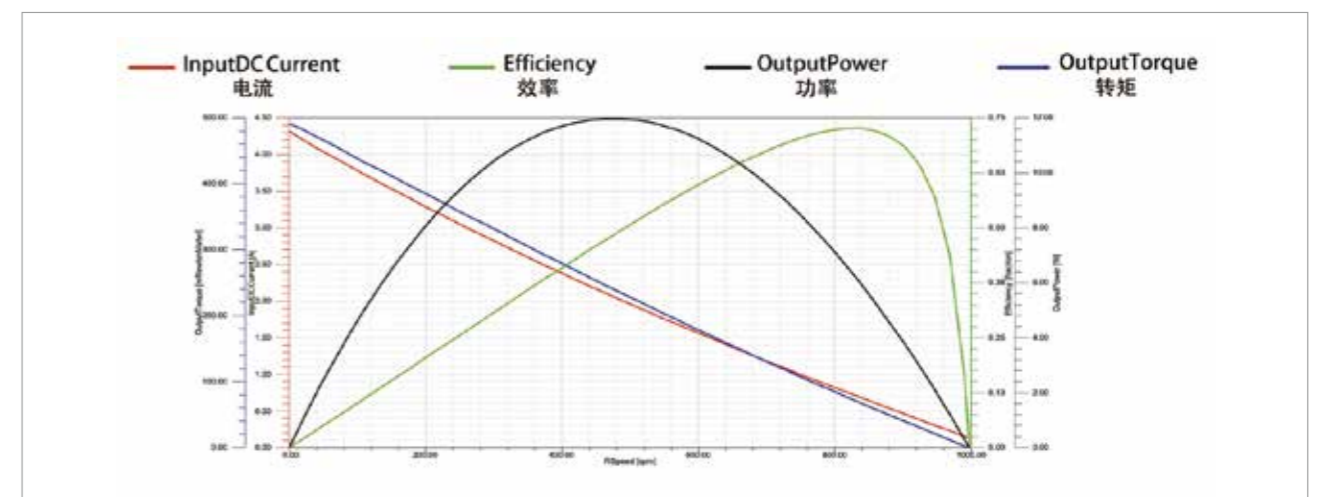
### 尺寸安装图 Installation Drawing



### 产品参数 Product Parameters

产品名称 Item Name	L-4015	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	16
额定电流 Nominal Current	A	1.88
额定扭矩 Nominal Torque	N.M	0.22
额定转速 Nominal Speed	RPM	520
最大空载转速 Max Speed	RPM	1010
最大瞬时扭矩 Max Instant Torque	N.M	0.49
最大瞬时电流 Max Instant Current	A	4.3
线电阻 Line Resistance	Ω	3.3
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	0.78
转速常数 Speed Constant	RPM/V	63
扭矩常数 Torque Constant	N.M/A	0.12
转子惯量 Rotor Inertia	gcm <sup>2</sup>	105
极对数 Number of Pole Pairs	-	13
电机重量 Motor Weight	g	120
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	8~24
驱动器电流范围 Current	A	Normal:5A Instant:8A
额定功率 Normminal Power	W	100
编码器精度 Encoder	-	18-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

### 电机特征曲线 Motor Characteristic Curve





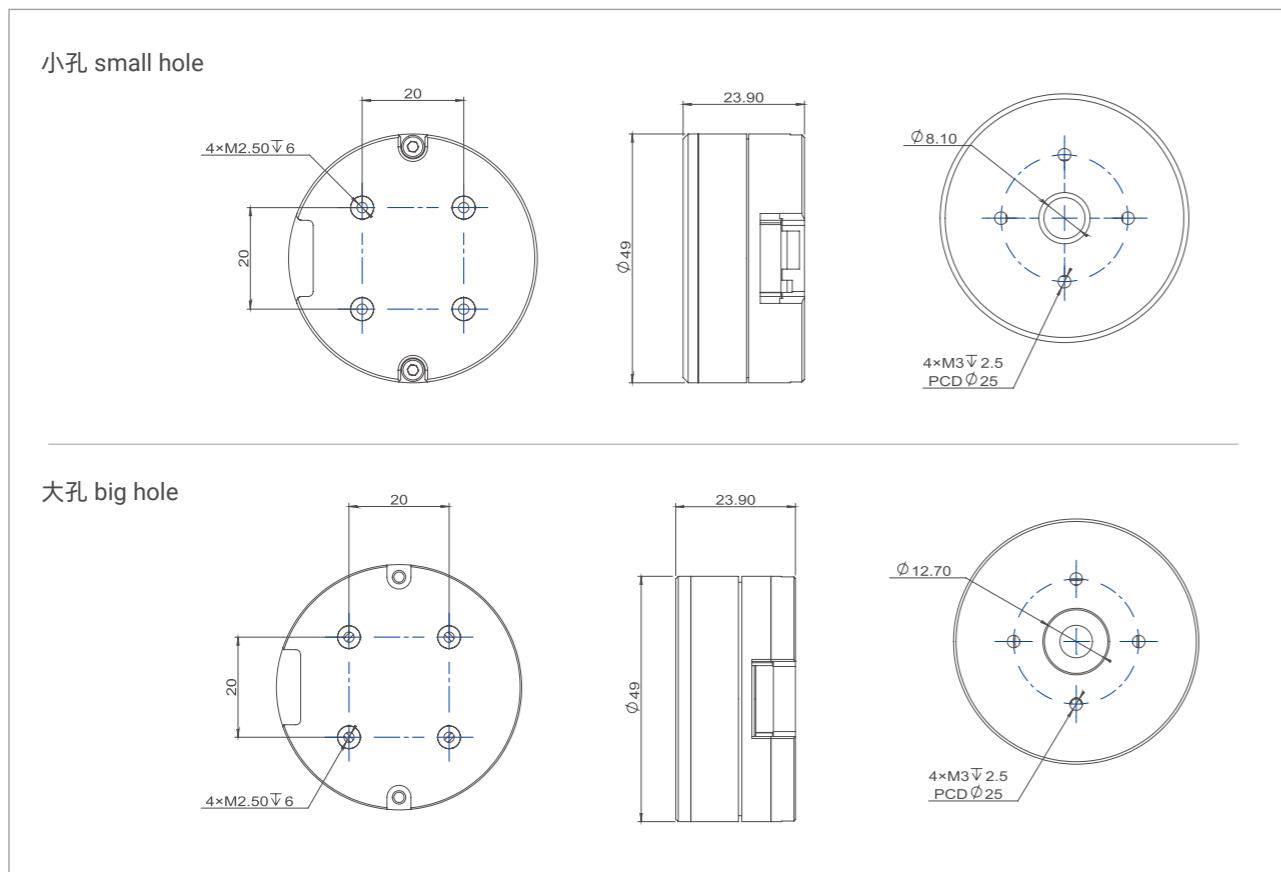
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-5005**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-5005 35T	MC CAN	110103013506
	MC RS485	110103013505

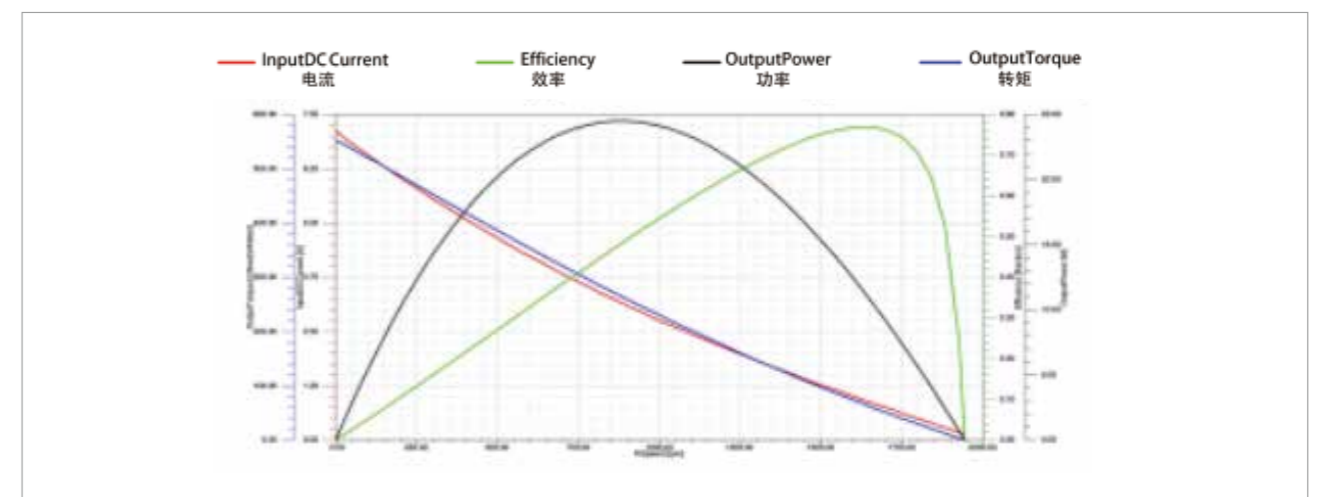
尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	L-5005	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	16
额定电流 Nominal Current	A	1.67
额定扭矩 Nominal Torque	N.M	0.13
额定转速 Nominal Speed	RPM	1360
最大空载转速 Max Speed	RPM	1970
最大瞬时扭矩 Max Instant Torque	N.M	0.42
最大瞬时电流 Max Instant Current	A	5
线电阻 Line Resistance	Ω	2
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	0.65
转速常数 Speed Constant	RPM/V	123
扭矩常数 Torque Constant	N.M/A	0.08
转子惯量 Rotor Inertia	gcm <sup>2</sup>	136
极对数 Number of Pole Pairs	-	14
电机重量 Motor Weight	g	92
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	8~24
驱动器电流范围 Current	A	Normal:5A Instant:8A
额定功率 Normminal Power	W	100
编码器精度 Encoder	-	14-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

电机特征曲线 Motor Characteristic Curve



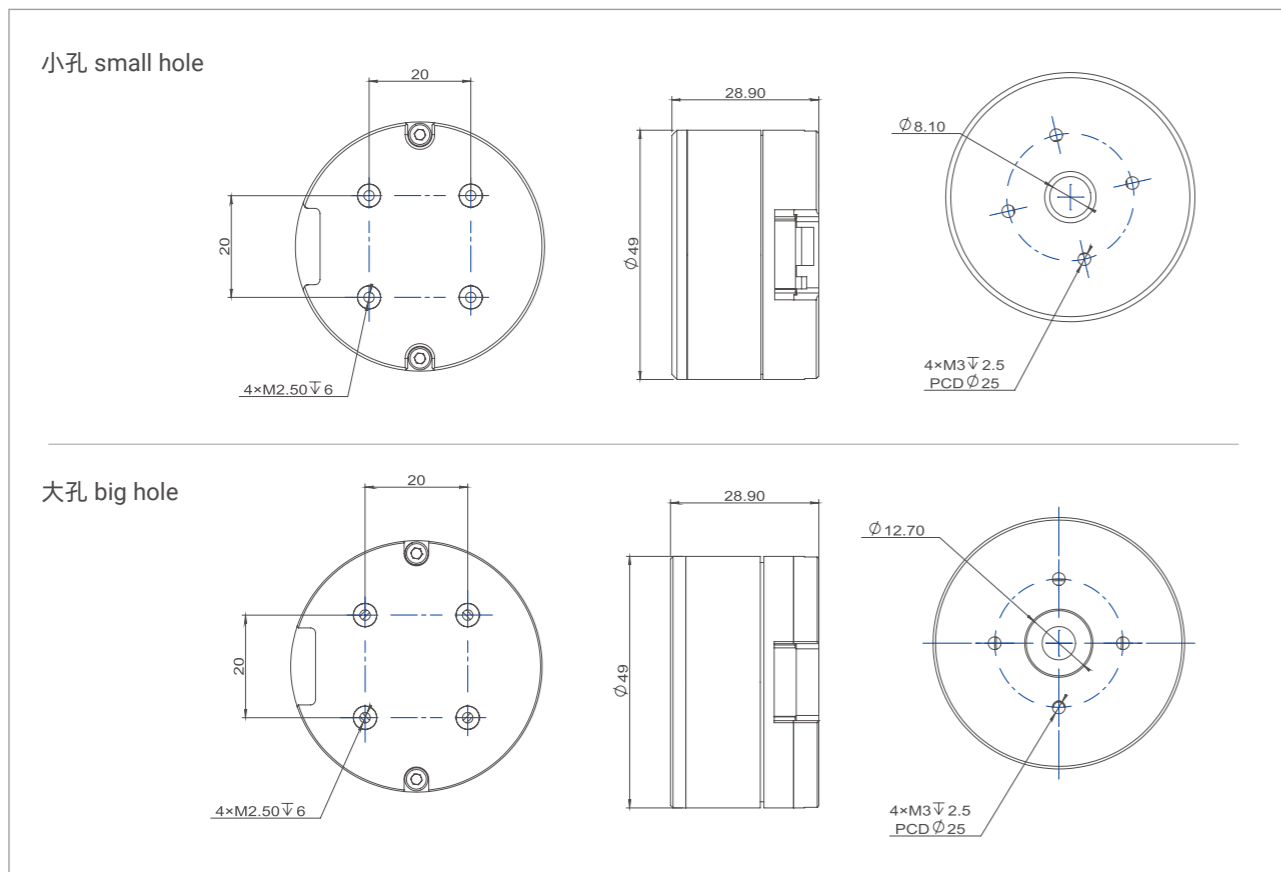
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-5010**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-5010 35T	MC CAN	110103023506
	MC RS485	110103023505

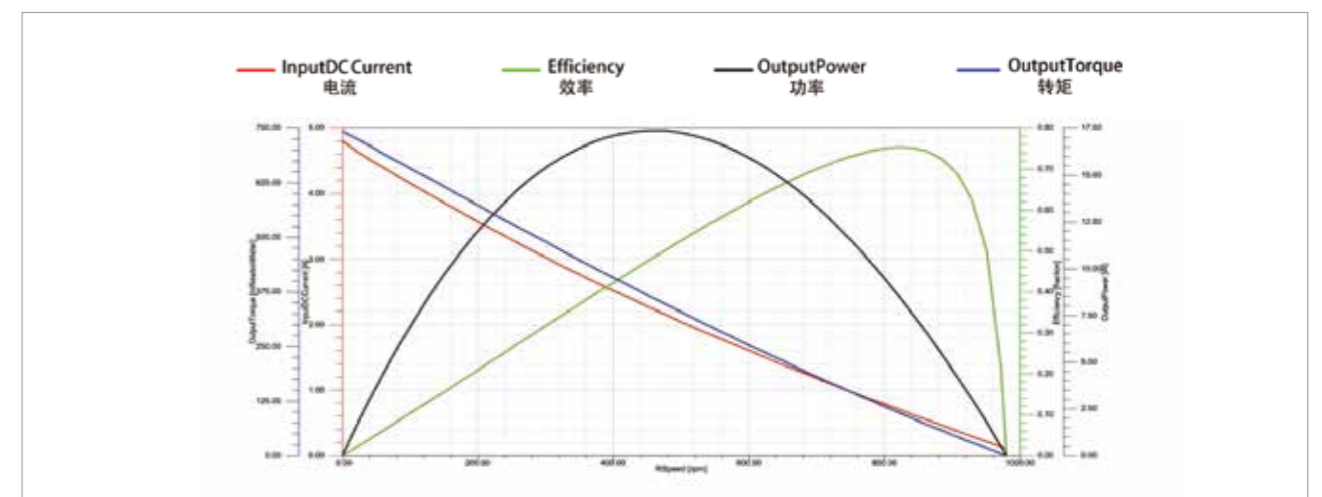
### 尺寸安装图 Installation Drawing



### 产品参数 Product Parameters

产品名称 Item Name	L-5010	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	16
额定电流 Nominal Current	A	1.65
额定扭矩 Nominal Torque	N.M	0.26
额定转速 Nominal Speed	RPM	600
最大空载转速 Max Speed	RPM	1015
最大瞬时扭矩 Max Instant Torque	N.M	0.65
最大瞬时电流 Max Instant Current	A	4.8
线电阻 Line Resistance	Ω	3.2
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	1.2
转速常数 Speed Constant	RPM/V	63
扭矩常数 Torque Constant	N.M/A	0.16
转子惯量 Rotor Inertia	gcm <sup>2</sup>	202
极对数 Number of Pole Pairs	-	14
电机重量 Motor Weight	g	135
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	8~24
驱动器电流范围 Current	A	Normal:5A Instant:8A
额定功率 Normminal Power	W	100
编码器精度 Encoder	-	18-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

### 电机特征曲线 Motor Characteristic Curve



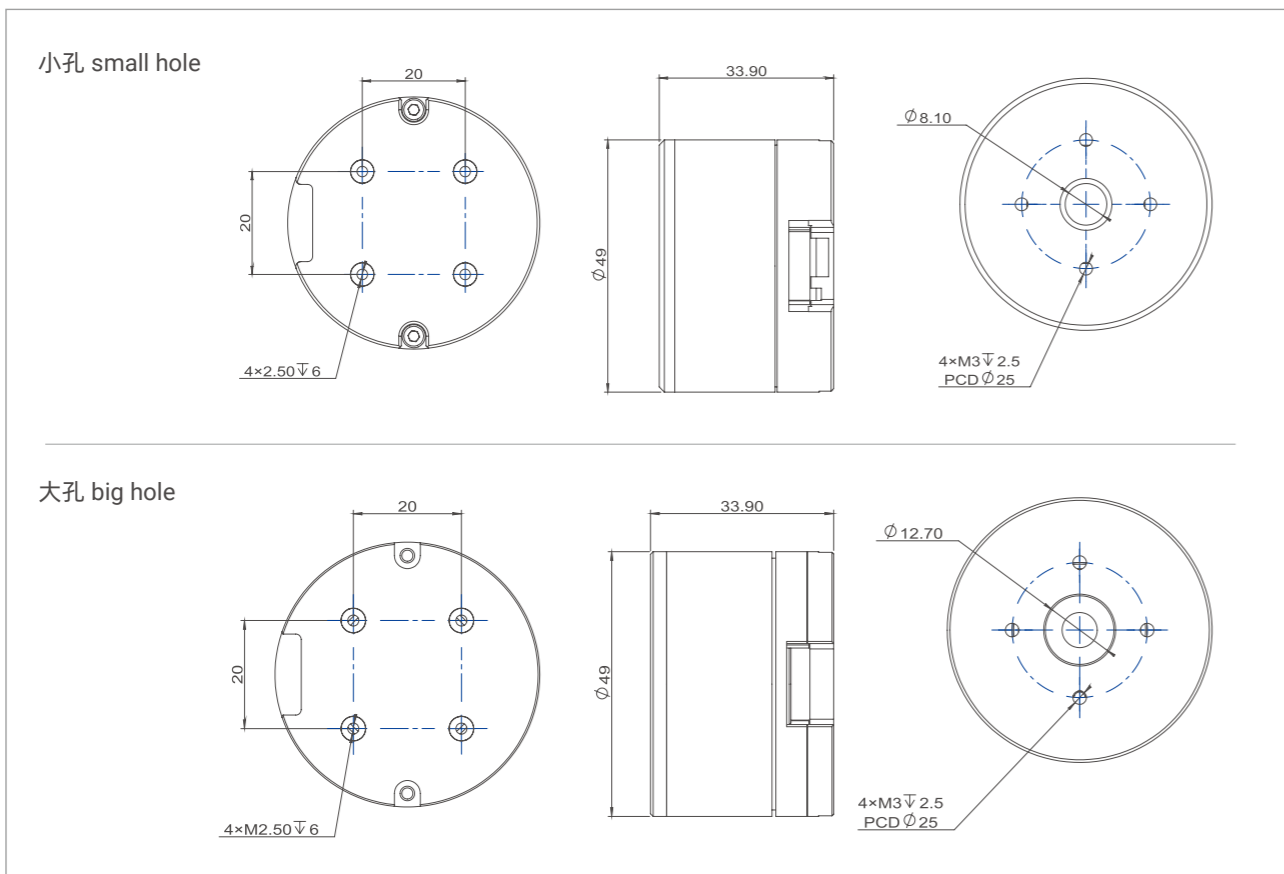
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-5015**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-5015 35T	MC CAN	110103033506
	MC RS485	110103033505

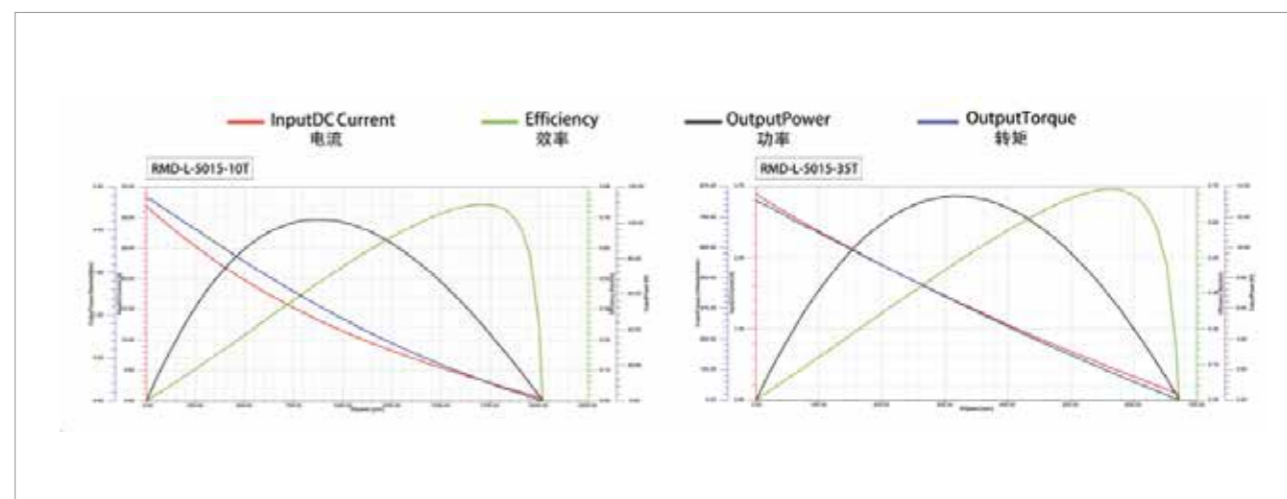
尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	L-5010	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	16
额定电流 Nominal Current	A	1.57
额定扭矩 Nominal Torque	N.M	0.36
额定转速 Nominal Speed	RPM	350
最大空载转速 Max Speed	RPM	680
最大瞬时扭矩 Max Instant Torque	N.M	0.82
最大瞬时电流 Max Instant Current	A	3.62
线电阻 Line Resistance	Ω	4
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	1.76
转速常数 Speed Constant	RPM/V	43
扭矩常数 Torque Constant	N.M/A	0.23
转子惯量 Rotor Inertia	gcm <sup>2</sup>	268
极对数 Number of Pole Pairs	-	14
电机重量 Motor Weight	g	174
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	8~24
驱动器电流范围 Current	A	Normal:5A Instant:8A
额定功率 Normminal Power	W	100
编码器精度 Encoder	-	14-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

电机特征曲线 Motor Characteristic Curve



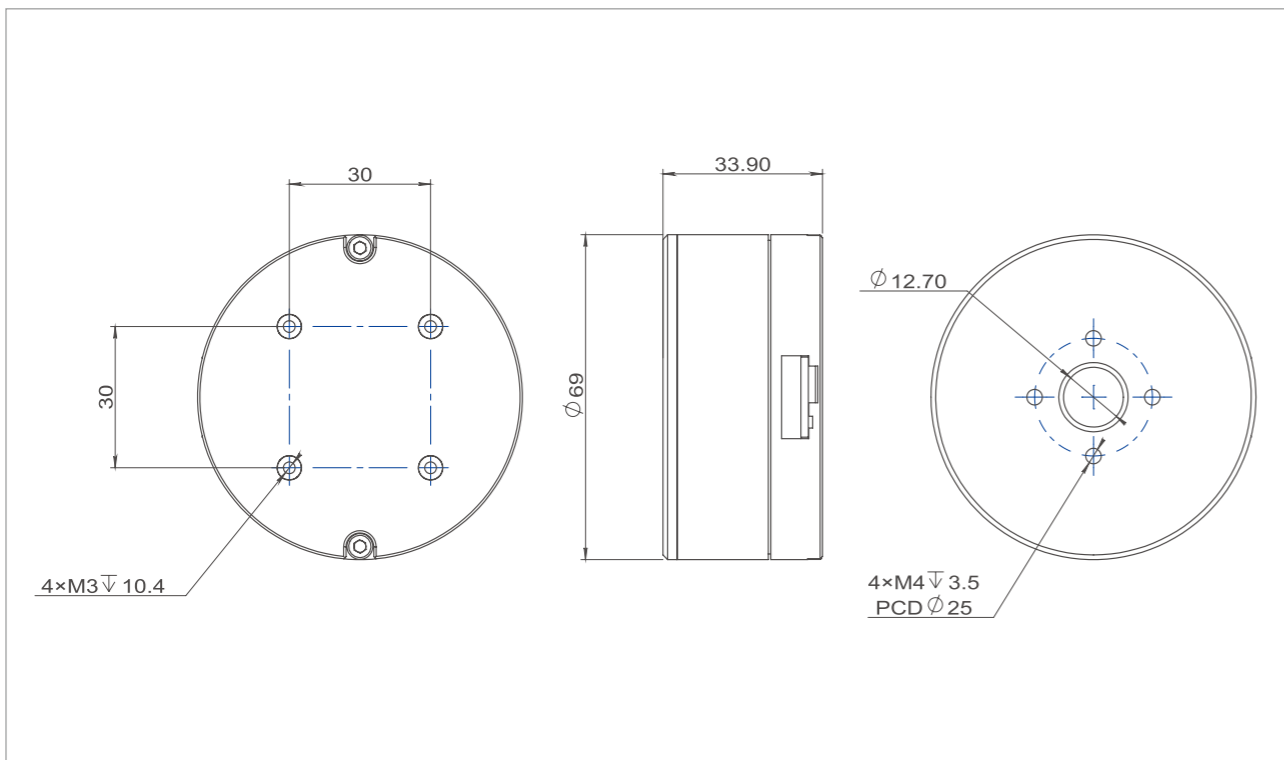
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-7015**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-7015 23T	MC CAN	110104022306
	MC RS485	110104022305

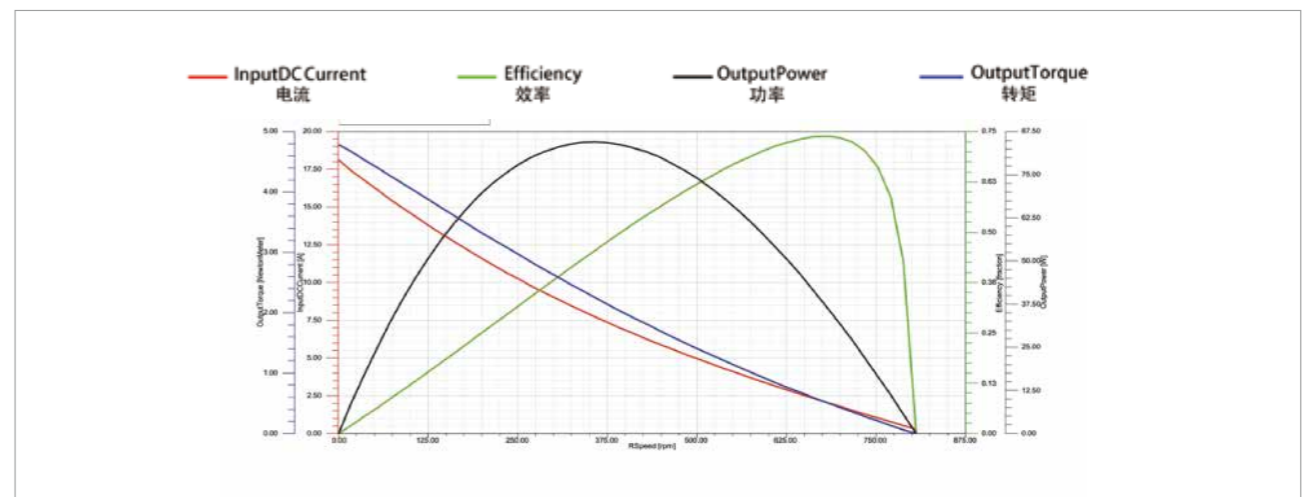
尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	L-7015	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	24
额定电流 Nominal Current	A	3.62
额定扭矩 Nominal Torque	N.M	1
额定转速 Nominal Speed	RPM	580
最大空载转速 Max Speed	RPM	805
最大瞬时扭矩 Max Instant Torque	N.M	3.8
最大瞬时电流 Max Instant Current	A	15
线电阻 Line Resistance	Ω	1.14
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	1.25
转速常数 Speed Constant	RPM/V	34
扭矩常数 Torque Constant	N.M/A	0.28
转子惯量 Rotor Inertia	gcm <sup>2</sup>	933
极对数 Number of Pole Pairs	-	14
电机重量 Motor Weight	g	360
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC200
驱动器输入电压范围 Input Voltage	V	8~36
驱动器电流范围 Current	A	Normal:8A Instant:15A
额定功率 Normminal Power	W	200
编码器精度 Encoder	-	18-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

电机特征曲线 Motor Characteristic Curve



系列名 Series Name

**RMD-L**

电机简称 Motor Simplified Name

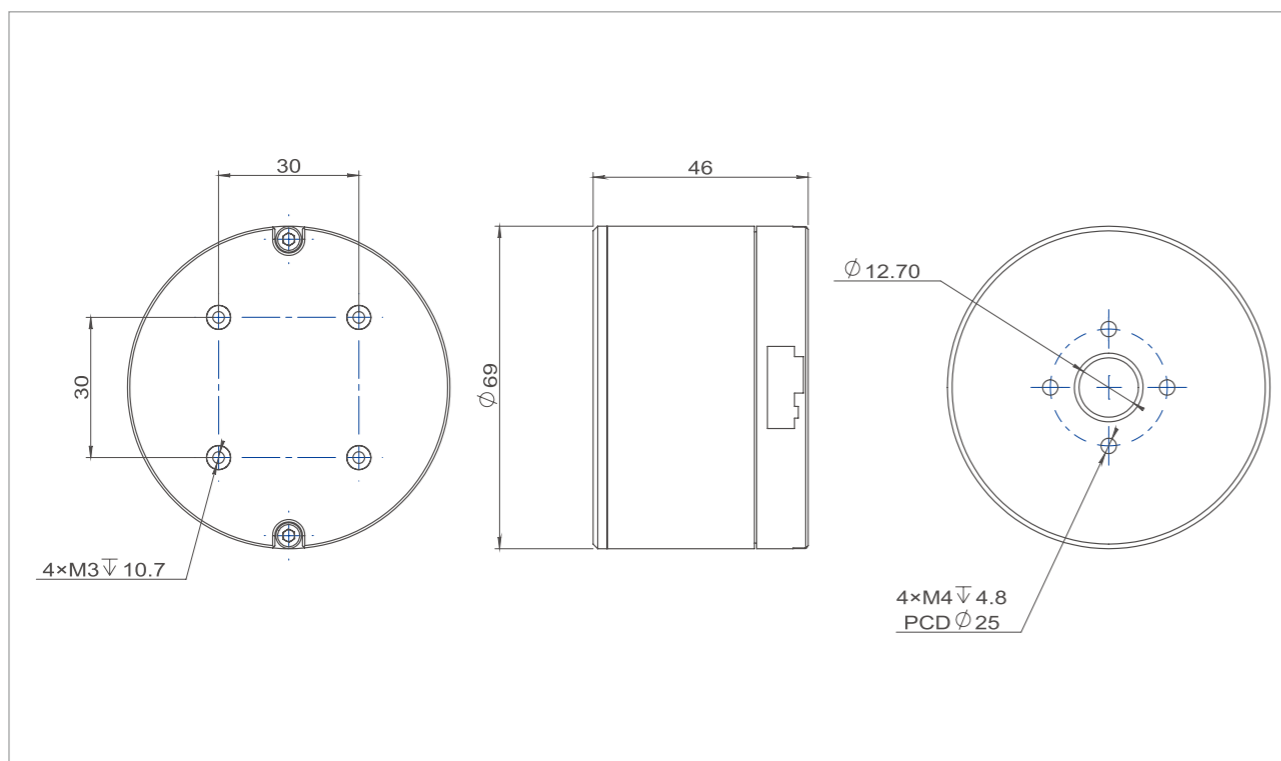
**L-7025**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-7025 28T	MC CAN	110104032806
	MC RS485	110104032805

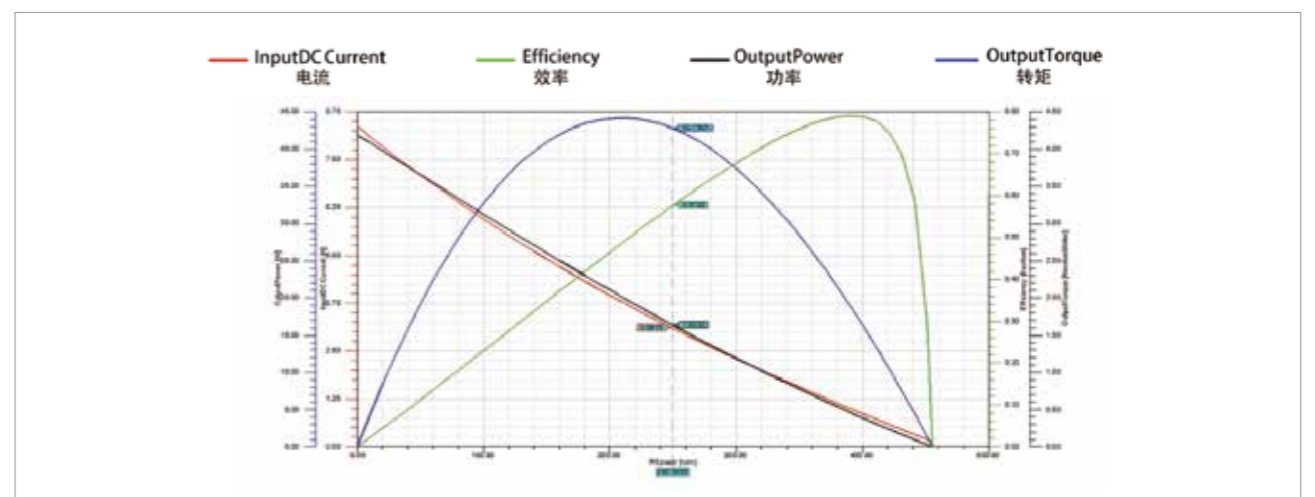
### 尺寸安装图 Installation Drawing



### 产品参数 Product Parameters

产品名称 Item Name	L-7025	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	24
额定电流 Nominal Current	A	3
额定扭矩 Nominal Torque	N.M	1.6
额定转速 Nominal Speed	RPM	280
最大空载转速 Max Speed	RPM	510
最大瞬时扭矩 Max Instant Torque	N.M	4.1
最大瞬时电流 Max Instant Current	A	8.5
线电阻 Line Resistance	$\Omega$	2.2
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	2.95
转速常数 Speed Constant	RPM/V	21
扭矩常数 Torque Constant	N.M/A	0.53
转子惯量 Rotor Inertia	gcm <sup>2</sup>	1040
极对数 Number of Pole Pairs	-	14
电机重量 Motor Weight	g	540
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC200
驱动器输入电压范围 Input Voltage	V	8~36
驱动器电流范围 Current	A	Normal:8A Instant:15A
额定功率 Normminal Power	W	200
编码器精度 Encoder	-	18-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

### 电机特征曲线 Motor Characteristic Curve



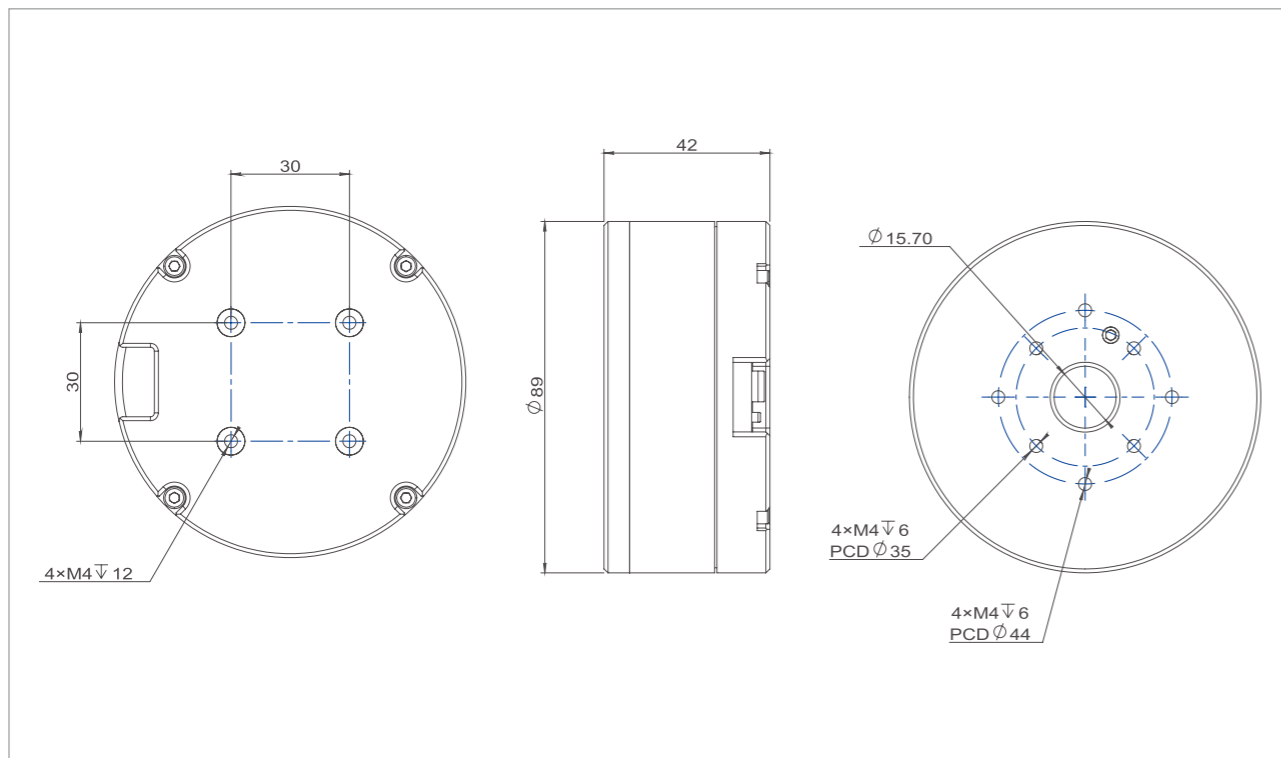
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-9015**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-9015 35T	MC CAN	110105023506
	MC RS485	110105023505

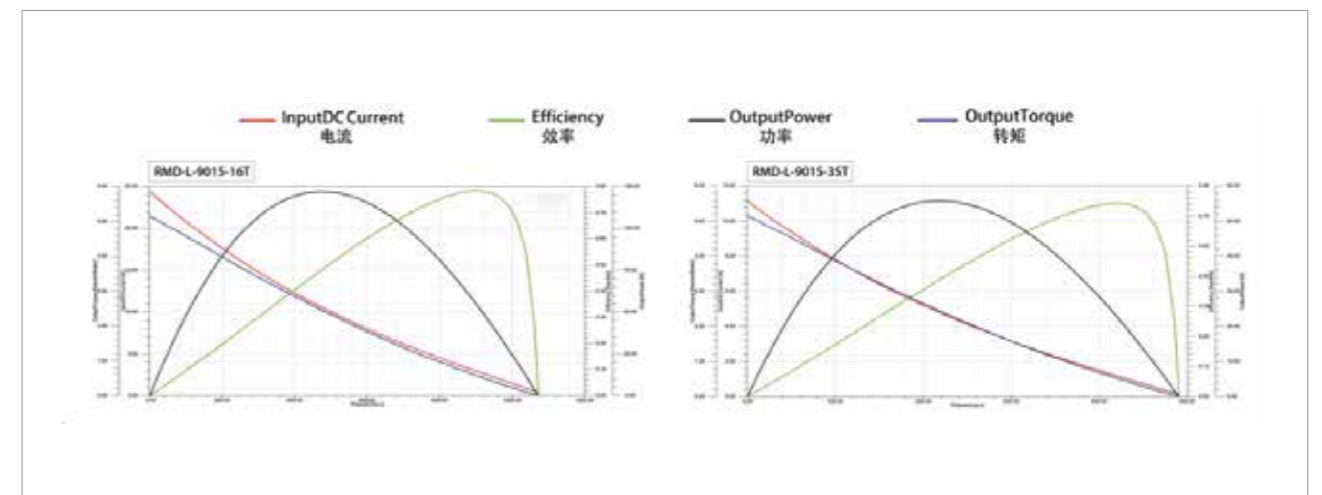
尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	L-9015	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	24
额定电流 Nominal Current	A	3.34
额定扭矩 Nominal Torque	N.M	1.67
额定转速 Nominal Speed	RPM	290
最大空载转速 Max Speed	RPM	500
最大瞬时扭矩 Max Instant Torque	N.M	5
最大瞬时电流 Max Instant Current	A	11
线电阻 Line Resistance	Ω	1.51
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	1.05
转速常数 Speed Constant	RPM/V	21
扭矩常数 Torque Constant	N.M/A	0.45
转子惯量 Rotor Inertia	gcm <sup>2</sup>	3271
极对数 Number of Pole Pairs	-	14
电机重量 Motor Weight	g	650
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC200
驱动器输入电压范围 Input Voltage	V	8~36
驱动器电流范围 Current	A	Normal:8A Instant:15A
额定功率 Normminal Power	W	200
编码器精度 Encoder	-	14-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

电机特征曲线 Motor Characteristic Curve



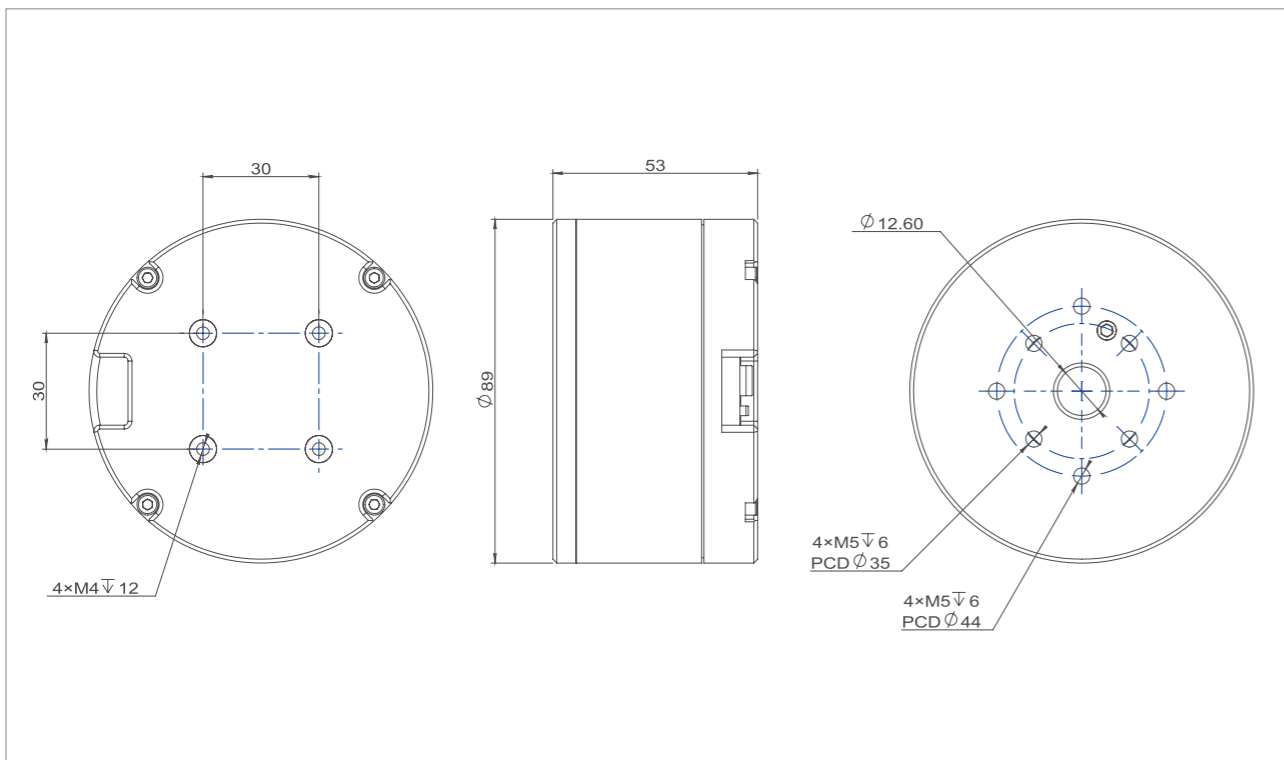
系列名 Series Name  
**RMD-L**  
电机简称 Motor Simplified Name  
**L-9025**



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-9025 35T	MC CAN	110105033506
	MC RS485	110105033505

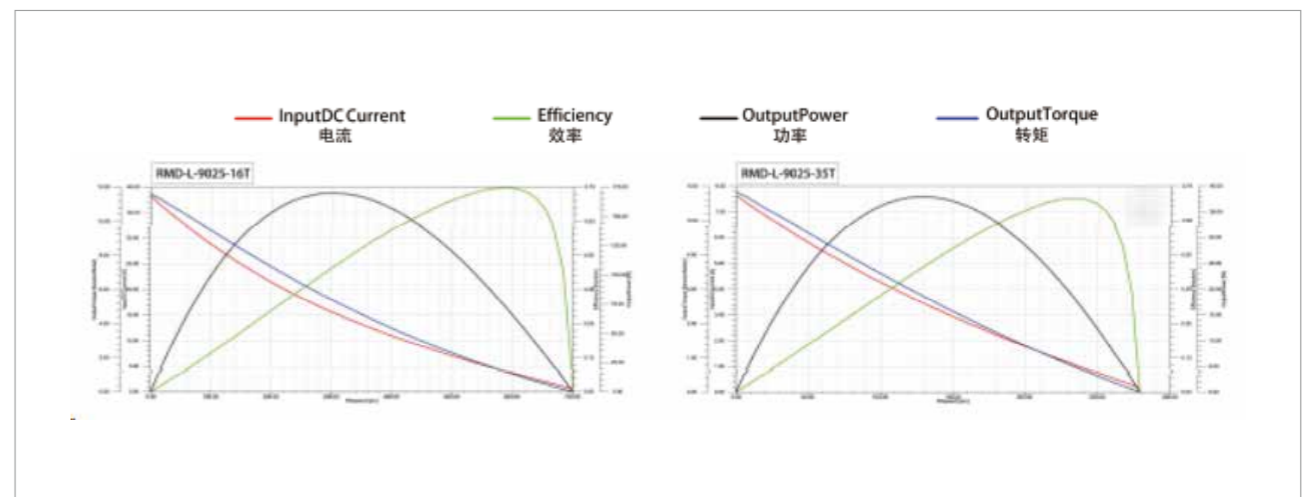
尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	L-9025	
减速机类型 Reducer Type	-	直驱减速机 Direct drive reducer
额定电压 Nominal Voltage	V	24
额定电流 Nominal Current	A	3.46
额定扭矩 Nominal Torque	N.M	2.79
额定转速 Nominal Speed	RPM	130
最大空载转速 Max Speed	RPM	280
最大瞬时扭矩 Max Instant Torque	N.M	5.8
最大瞬时电流 Max Instant Current	A	7.6
线电阻 Line Resistance	Ω	1.9
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	4.71
转速常数 Speed Constant	RPM/V	12
扭矩常数 Torque Constant	N.M/A	0.76
转子惯量 Rotor Inertia	gcm <sup>2</sup>	4656
极对数 Number of Pole Pairs	-	14
电机重量 Motor Weight	g	880
工作温度范围 Working Temperature	°C	(-20 ~ 80 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°
适配驱动类型 Drive	-	MC200
驱动器输入电压范围 Input Voltage	V	8~36
驱动器电流范围 Current	A	Normal:8A Instant:15A
额定功率 Normminal Power	W	200
编码器精度 Encoder	-	14-bit magnetic encoder
通信方式及波特率 Communication method and baud rate	-	CAN BUS :1M ; RS485: 115200/500k/1M/2.5M
控制模式 control mode	-	Torque loop(current loop) / speed loop/position loop
加速度曲线 S-Curve	-	YES

电机特征曲线 Motor Characteristic Curve



一体化直驱模组  
All-in-one direct-drive module

# RMD-H-系列

RMD-h-Direct Drive Series系列

驱动集成 / 高精度度 / 大空洞 / 高速  
Drive integration / high precision / large hollow / high speed



懂你的心 更懂如何用心

Understand what you need in heart and know how to make effort diligently

11

 <p>低速稳 STABLE AT LOW SPEED</p>	 <p>低噪音 LOW NOISE</p>	 <p>高精度 HIGH PRECISION</p>
 <p>承载力强 STRONG CARRYING CAPACITY</p>	 <p>精准控制 PRECISE CONTROL</p>	 <p>便捷操作 EASY TO OPERATE</p>



## RMD-H系列产品命名规则

RMD-L SERIES NAMING CONVENTIONS

H SERIES DIVERSIFIED APPLICABLE SCENARIOS

# H系列多元化适用场景



人形机器人  
Humanoid robots



机械臂  
Robotic arm



外骨骼机器人  
Exoskeleton robots



四足机器人  
Quadruped robots



AGV智能搬运车  
AGV smart truck



ARU 机器人技术  
ARU Robotics

## RMD-H-50-10-C

① ② ③ ④ ⑤

- ① 品牌名称: RMD (Reducer Motor Drive)  
Brand Name R-Reducer M-Motor D-Drive
- ② H代表中空系列  
H Stands For The Hollow series
- ③ 50代表基座号 例如: 50 90等  
50 Represent Motor Model Number e.g: 50 90 etc
- ④ 中空轴内径 10  
Hollow Shaft Inner Diameter 10
- ⑤ 通信方式 C: CAN bus R: RS485 E: Ethercat  
Communication C: CAN bus R: RS485 E: Ethercat

例如 For example

型号 RMD-H-90-10-C

说明  
RMD: 品牌名  
H: 中空系列  
90: 基座号  
10: 中空轴内径  
C: CAN bus 通信

Model RMD-H-90-10-C

Illustrate  
RMD: Brand Name  
H: Output shaft series  
90: Represent Motor Model Number  
10: Hollow Shaft Inner Diameter  
C: Communication C: CAN bus



无框力矩电机  
Frameless Motor

# FL系列-无框电机 Frameless Motor

大直径、大中空、强劲动力

Large Diameter、Big Hollow Shaft、Strong Torque



FL50-8-150 FL50-15-180 FL70-10-250 FL70-19-360 FL85-13-450 FL85-23-700 FL115-25-600

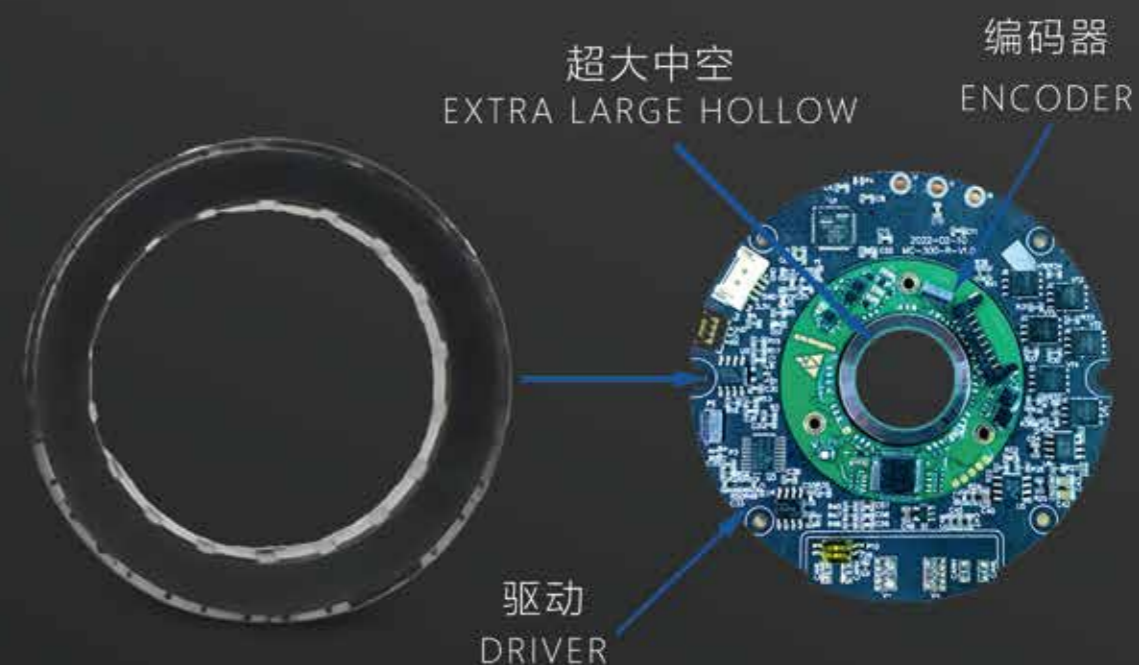
## 无框设计

为客户的集成设计提供更多灵活选择

扁平化 大直径 大中空  
散热好 绝缘佳 易于安装

FLATTENED DESIGN/LARGE DIAMETER/ LARGE HOLLOW  
WELL HEAT DISSIPATION/ GOOD INSULATION/ EASY INSTALLATION

高度集成化:无框力矩电机+超大中空驱动器+编码器  
HIGH INTEGRATION:FL MOTOR+HOLLOW SHAFT DRIVER+ENCODER



## RMD-FL系列产品命名规则 RMD-FL SERIES NAMING CONVENTIONS

DIVERSIFIED APPLICATION SCENARIOS

# 多元化适用场景



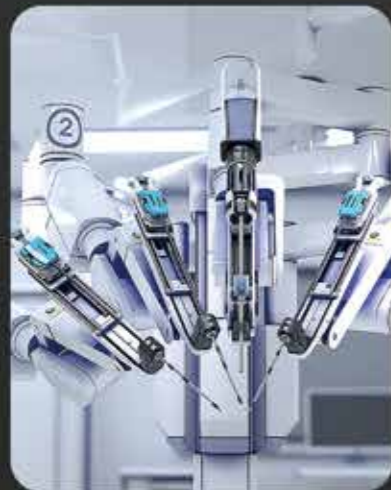
机械臂  
Robotic Arm



家电制造  
Household Manufacturing



吹风机  
Hairdryer



手术机器人  
Surgical Robot



汽车工业  
Automobile Industry



航空工业  
Aviation Industry

## RMD-FL-50-8-150

① ② ③ ④ ⑤

- ① 品牌名称: RMD (Reducer Motor Drive)  
Brand Name R-Reducer M-Motor D-Drive
- ② FL代表系列名  
FL Stands For The Series Name
- ③ 定子直径  
Stator diameter
- ④ 转子高度  
Rotor height
- ⑤ 额定功率 150W  
Rated power 150W

例如 For example

型号 RMD-FL-85-13-440

说明

- RMD: 品牌名
- FL: 内转无框力矩系列
- 85: 定子直径
- 13: 转子高度
- 440: 额定功率

Model RMD-FL-85-13-440

Illustrate

- RMD: Brand Name
- FL: Internal rotation frameless torque series
- 85: Stator diameter
- 13: Rotor height
- 440: Rated power

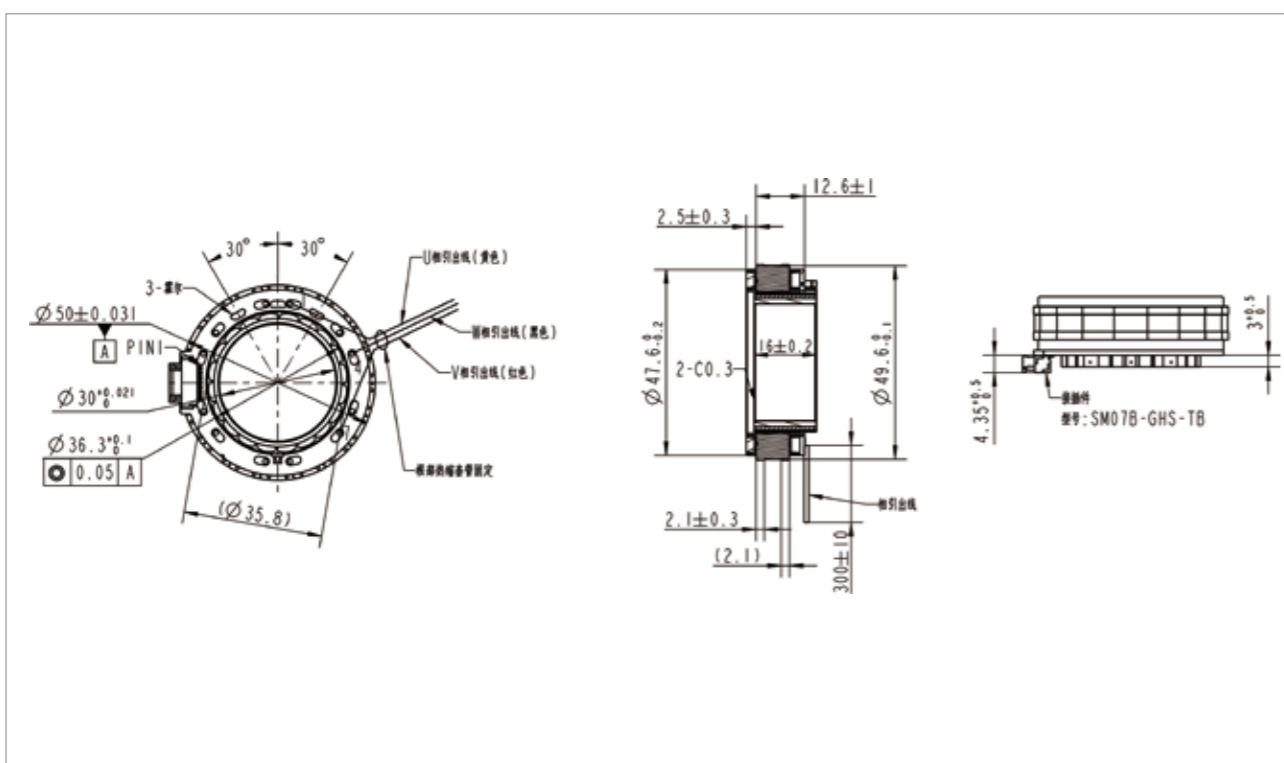
系列名 Series Name  
**RMD-FL**  
 曾用名 Previous Name  
**FL50-8-150**  
 电机简称 Motor Simplified Name  
**FL-50-8**



单编码器 Single Encoder

型号 Actuator Full Name	货品编码 Product Code
RMD-FL-50-8	1106030000000000

### 尺寸安装图 Installation Drawing

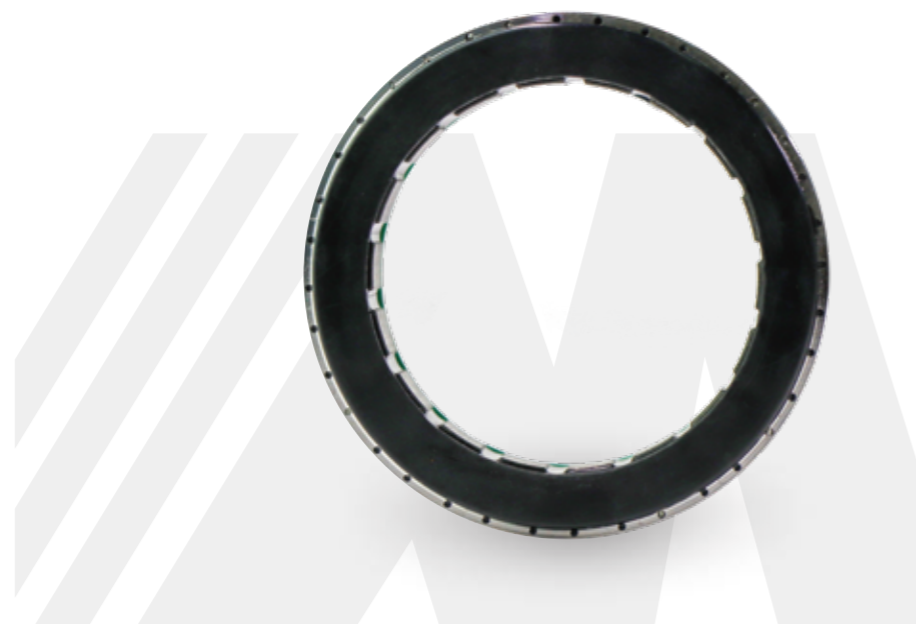


### 产品参数 Product Parameters

产品名称 Item Name		FL-50-8
减速机类型 Reducer Type	-	无框力矩减速机 Frameless torque reducer
极数 Number of poles	-	20
相数 Number of phases	-	3
额定电压 Rated voltage	V	48
额定转矩 Rated torque	N.m	0.3
额定电流 Rated current	A	3.6
额定速度 Rated speed	RPM	4800
额定功率 Rated power	W	151
最大转速 Maximum speed	RPM	6000
峰值扭矩 Peak torque	N.m	0.96
峰值电流 Peak current	A	11.6
线电阻 Line to line resistance	ohms@20℃	0.9
线电感 Line to line inductance	mH	0.4
转矩常数 Torque constant	Nm/A	0.092
反电势 Back EMF	Vrms/KRPM	5.6
机身长度 Motor length	mm	20
重量 Weight	g	95.6
电气时间常数 Electrical time constant	ms	0.45

产品型号 Item Name		FL-50-8	公差 Tolerance
定子外径D Stator outer diameter D	mm	50	±0.031(js9)
定子长度L Stator length L	mm	20	±1
转子内径D1 Rotor inner diameter D1	mm	30	(+0.033/0)H8
转子长度L1 Rotor length L1	mm	16	±0.2
灌胶面外圆E Glue filling surface outer circle E	mm	47.6	±0.2
灌胶面高度F Glue filling surface height F	mm	2.5	±0.3
定子铁芯高度A Stator core height A	mm	8.6	±0.2/-0.3

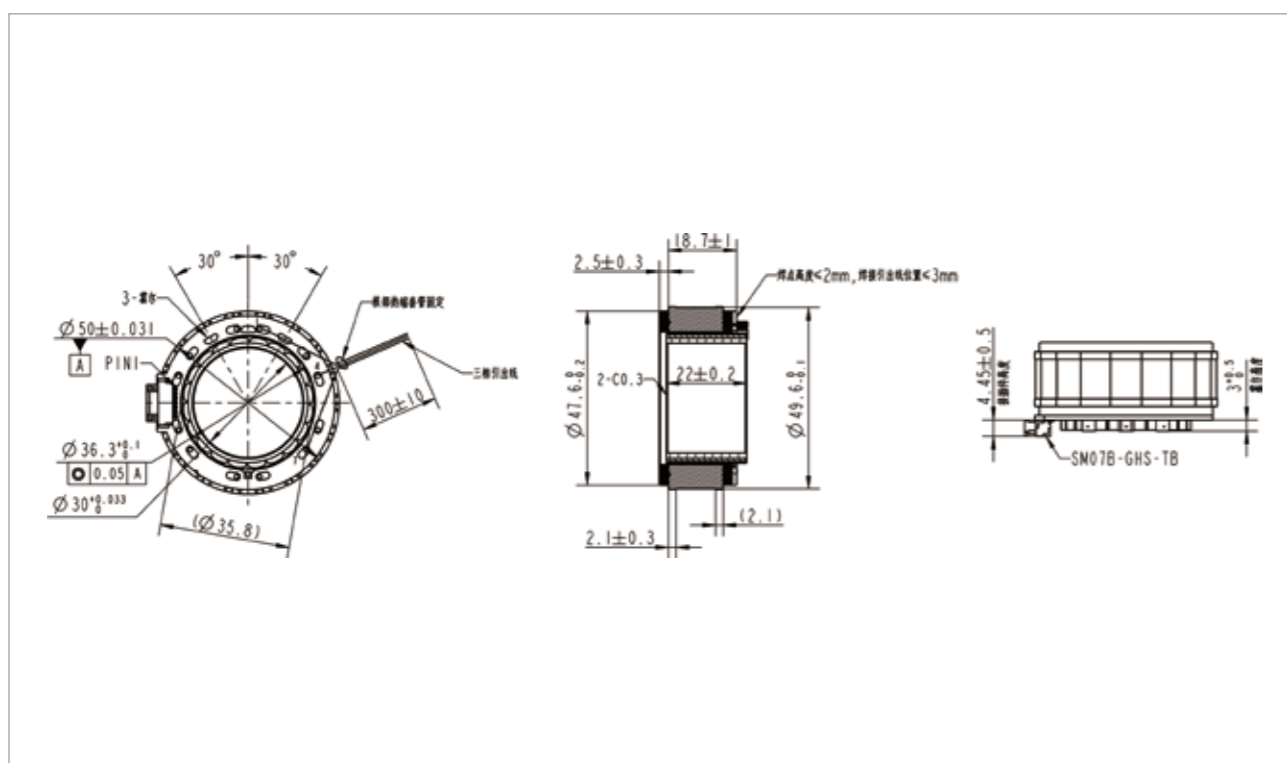
系列名 Series Name  
**RMD-FL**  
 曾用名 Previous Name  
**FL50-15-180**  
 电机简称 Motor Simplified Name  
**FL-50-15**



单编码器 Single Encoder

型号 Actuator Full Name	货品编码 Product Code
RMD-FL-50-15	1106040000000000

尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	FL-50-15	
减速机类型 Reducer Type	-	无框力矩减速机 Frameless torque reducer
极数 Number of poles	-	20
相数 Number of phases	-	3
额定电压 Rated voltage	V	48
额定转矩 Rated torque	N.m	0.5
额定电流 Rated current	A	4.8
额定速度 Rated speed	RPM	3500
额定功率 Rated power	W	183
最大转速 Maximum speed	RPM	4600
峰值扭矩 Peak torque	N.m	1.5
峰值电流 Peak current	A	14.5
线电阻 Line to line resistance	ohms@20℃	0.77
线电感 Line to line inductance	mH	0.38
转矩常数 Torque constant	Nm/A	0.12
反电势 Back EMF	Vrms/KRPM	7.3
机身长度 Motor length	mm	26
重量 Weight	g	147
电气时间常数 Electrical time constant	ms	0.49

产品型号 Item Name	FL-50-8	公差 Tolerance
定子外径D Stator outer diameter D	mm 50mm	±0.031(js9)
定子长度L Stator length L	mm 26mm	±1
转子内径D1 Rotor inner diameter D1	mm 30mm	(+0.033/0)H8
转子长度L1 Rotor length L1	mm 22mm	±0.2
灌胶面外圆E Glue filling surface outer circle E	mm 47.6mm	±0.2
灌胶面高度F Glue filling surface height F	mm 2.5mm	±0.3
定子铁芯高度A Stator core height A	mm 15mm	±0.2/-0.3

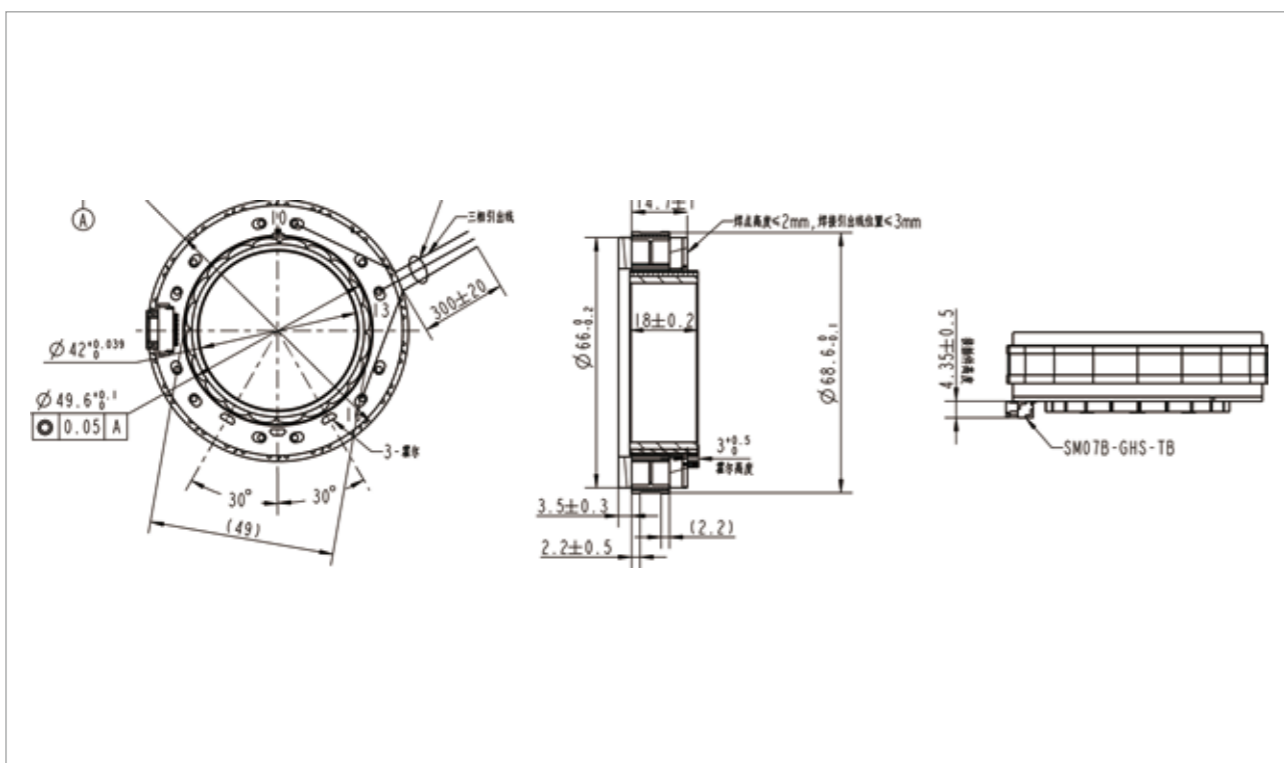
系列名 Series Name  
**RMD-FL**  
 曾用名 Previous Name  
**FL70-10-250**  
 电机简称 Motor Simplified Name  
**FL-70-10**



单编码器 Single Encoder

型号 Actuator Full Name	货品编码 Product Code
RMD-FL-70-10	1106050000000000

尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	FL-70-10	
减速机类型 Reducer Type	-	无框力矩减速机 Frameless torque reducer
极数 Number of poles	-	20
相数 Number of phases	-	3
额定电压 Rated voltage	V	48
额定转矩 Rated torque	N.m	0.66
额定电流 Rated current	A	6.2
额定速度 Rated speed	RPM	3650
额定功率 Rated power	W	250
最大转速 Maximum speed	RPM	4800
峰值扭矩 Peak torque	N.m	1.98
峰值电流 Peak current	A	18.5
线电阻 Line to line resistance	ohms@20℃	0.38
线电感 Line to line inductance	mH	0.33
转矩常数 Torque constant	Nm/A	0.115
反电势 Back EMF	Vrms/KRPM	7
机身长度 Motor length	mm	27.5
重量 Weight	g	210
电气时间常数 Electrical time constant	ms	0.87

产品型号 Item Name	FL-50-8	公差 Tolerance
定子外径D Stator outer diameter D	mm	69mm ±0.037(js9)
定子长度L Stator length L	mm	23.5mm ±1
转子内径D1 Rotor inner diameter D1	mm	42mm +0.039/0(H8)
转子长度L1 Rotor length L1	mm	18mm ±0.2
灌胶面外圆E Glue filling surface outer circle E	mm	66mm ±0.2
灌胶面高度F Glue filling surface height F	mm	3.5mm ±0.3
定子铁芯高度A Stator core height A	mm	10.5mm -0.5/0

系列名 Series Name  
**RMD-FL**

曾用名 Previous Name  
**FL70-19-360**

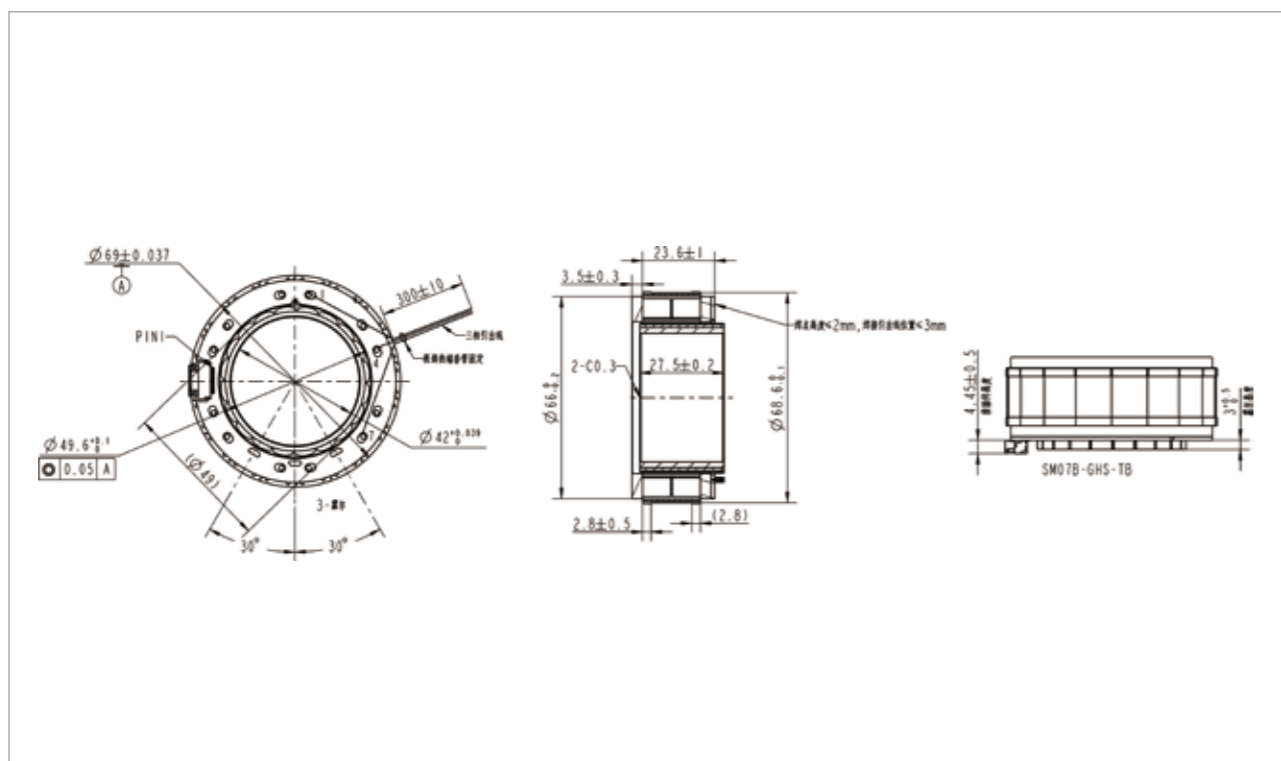
电机简称 Motor Simplified Name  
**FL-70-19**



单编码器 Single Encoder

型号 Actuator Full Name	货品编码 Product Code
RMD-FL-50-8	110503080000

### 尺寸安装图 Installation Drawing



### 产品参数 Product Parameters

产品名称 Item Name		FL-50-8
减速机类型 Reducer Type	-	无框力矩减速机 Frameless torque reducer
极数 Number of poles	-	20
相数 Number of phases	-	3
额定电压 Rated voltage	V	48
额定转矩 Rated torque	N.m	1
额定电流 Rated current	A	9.2
额定速度 Rated speed	RPM	3500
额定功率 Rated power	W	366
最大转速 Maximum speed	RPM	4500
峰值扭矩 Peak torque	N.m	3
峰值电流 Peak current	A	28
线电阻 Line to line resistance	ohms@20℃	0.19
线电感 Line to line inductance	mH	0.18
转矩常数 Torque constant	Nm/A	0.12
反电势 Back EMF	Vrms/KRPM	7.4
机身长度 Motor length	mm	32
重量 Weight	g	315
电气时间常数 Electrical time constant	ms	0.95

产品型号 Item Name		FL-50-8	公差 Tolerance
定子外径D Stator outer diameter D	mm	69mm	±0.037(js9)
定子长度L Stator length L	mm	32mm	±1
转子内径D1 Rotor inner diameter D1	mm	42mm	+0.039/0(H8)
转子长度L1 Rotor length L1	mm	27.5mm	±0.2
灌胶面外圆E Glue filling surface outer circle E	mm	66mm	±0.2
灌胶面高度F Glue filling surface height F	mm	3.5mm	±0.3
定子铁芯高度A Stator core height A	mm	18.9mm	-0.5/0



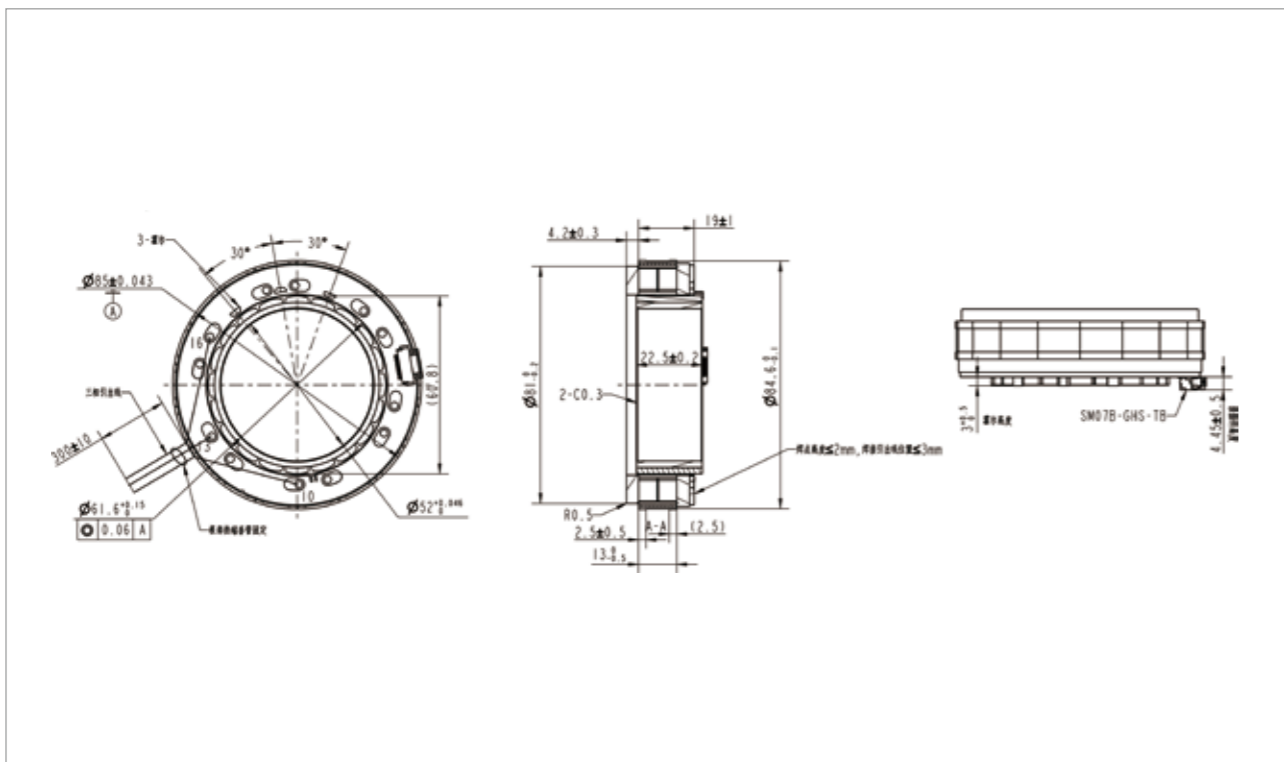
系列名 Series Name  
**RMD-FL**  
 曾用名 Previous Name  
**FL85-13-450**  
 电机简称 Motor Simplified Name  
**FL-85-13**



单编码器 Single Encoder

型号 Actuator Full Name	货品编码 Product Code
RMD-FL-50-8	1106070000000000

尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name		FL-50-8
减速机类型 Reducer Type	-	无框力矩减速机 Frameless torque reducer
极数 Number of poles	-	20
相数 Number of phases	-	3
额定电压 Rated voltage	V	48
额定转矩 Rated torque	N.m	1.44
额定电流 Rated current	A	9.8
额定速度 Rated speed	RPM	2950
额定功率 Rated power	W	440
最大转速 Maximum speed	RPM	3800
峰值扭矩 Peak torque	N.m	4.66
峰值电流 Peak current	A	31.7
线电阻 Line to line resistance	ohms@20℃	0.23
线电感 Line to line inductance	mH	0.3
转矩常数 Torque constant	Nm/A	0.162
反电势 Back EMF	Vrms/KRPM	9.8
机身长度 Motor length	mm	27.5
重量 Weight	g	386
电气时间常数 Electrical time constant	ms	1.3

产品型号 Item Name		FL-50-8	公差 Tolerance
定子外径D Stator outer diameter D	mm	85mm	±0.043(js9)
定子长度L Stator length L	mm	27.5mm	±1
转子内径D1 Rotor inner diameter D1	mm	52mm	+0.046/0(H8)
转子长度L1 Rotor length L1	mm	21.5mm	±0.25
灌胶面外圆E Glue filling surface outer circle E	mm	81mm	±0.2
灌胶面高度F Glue filling surface height F	mm	4.2mm	0.3
定子铁芯高度A Stator core height A	mm	13mm	0/-0.5

系列名 Series Name

**RMD-FL**

曾用名 Previous Name

**FL85-23-700**

电机简称 Motor Simplified Name

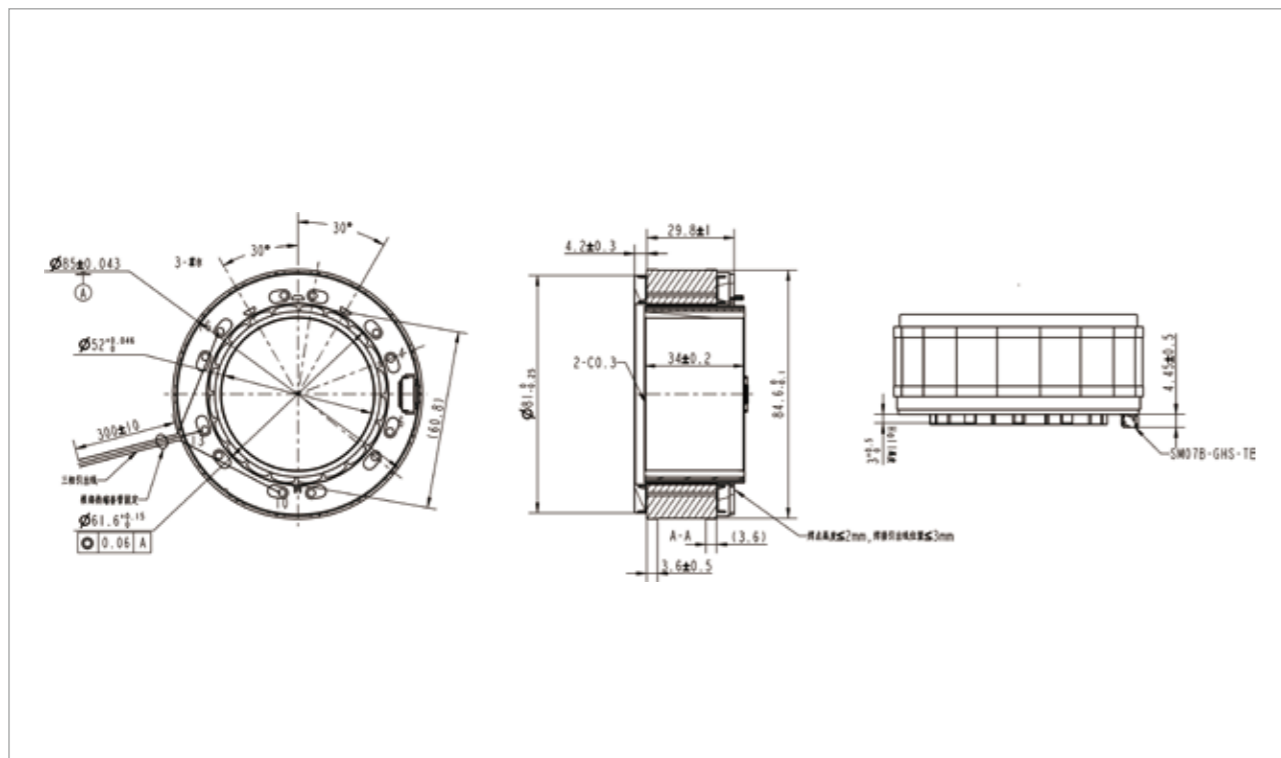
**FL-85-23**



单编码器 Single Encoder

型号 Actuator Full Name	货品编码 Product Code
RMD-FL-50-8	1106080000000000

### 尺寸安装图 Installation Drawing



### 产品参数 Product Parameters

产品名称 Item Name	FL-50-8	
减速机类型 Reducer Type	-	无框力矩减速机 Frameless torque reducer
极数 Number of poles	-	20
相数 Number of phases	-	3
额定电压 Rated voltage	V	48
额定转矩 Rated torque	N.m	2
额定电流 Rated current	A	15
额定速度 Rated speed	RPM	3500
额定功率 Rated power	W	732
最大转速 Maximum speed	RPM	4000
峰值扭矩 Peak torque	N.m	6
峰值电流 Peak current	A	45
线电阻 Line to line resistance	ohms@20°C	0.092
线电感 Line to line inductance	mH	0.13
转矩常数 Torque constant	Nm/A	0.137
反电势 Back EMF	Vrms/KRPM	8.3
机身长度 Motor length	mm	35
重量 Weight	g	597
电气时间常数 Electrical time constant	ms	1.4

产品型号 Item Name	FL-50-8	公差 Tolerance
定子外径D Stator outer diameter D	mm	85mm ±0.043(js9)
定子长度L Stator length L	mm	36mm ±1
转子内径D1 Rotor inner diameter D1	mm	52mm +0.046/0(H8)
转子长度L1 Rotor length L1	mm	34mm ±0.25
灌胶面外圆E Glue filling surface outer circle E	mm	81mm ±0.2
灌胶面高度F Glue filling surface height F	mm	4.2mm 0.3
定子铁芯高度A Stator core height A	mm	23mm 0/-0.5

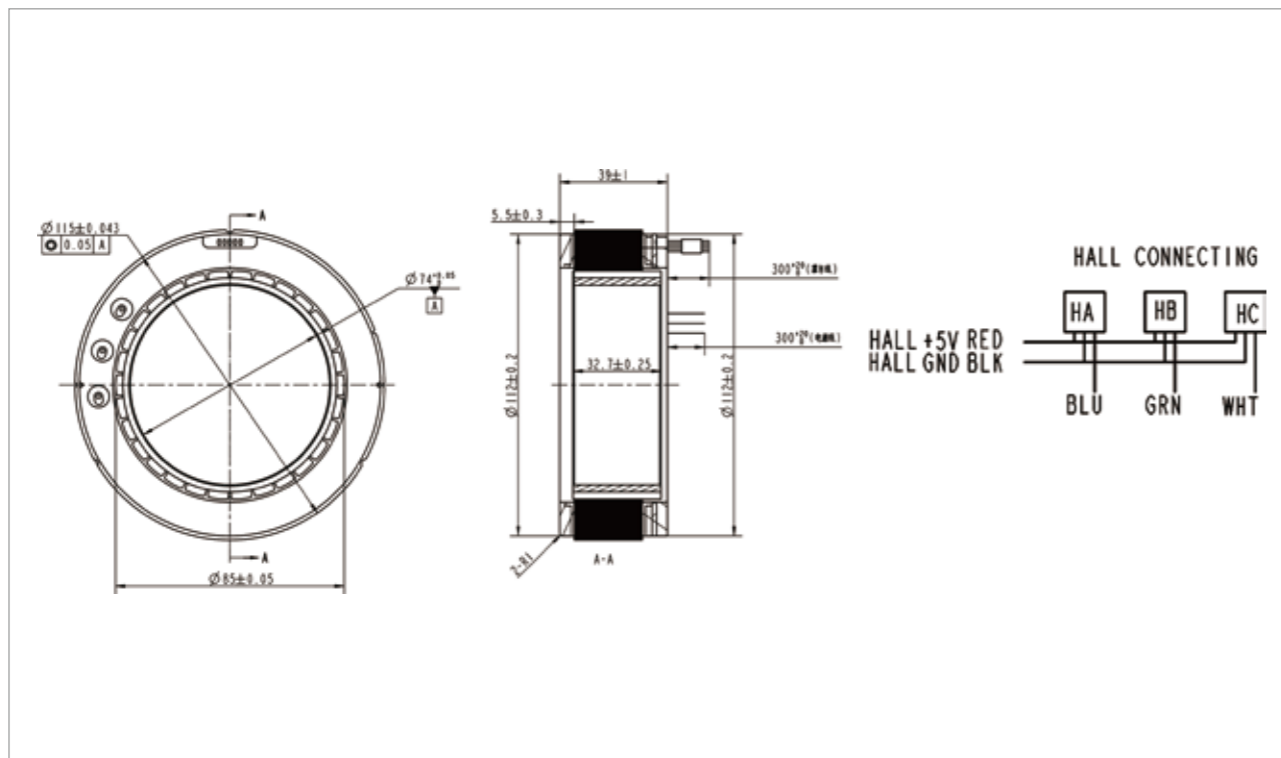
系列名 Series Name  
**RMD-FL**  
 曾用名 Previous Name  
**FL115-25-600**  
 电机简称 Motor Simplified Name  
**FL-115-25**



单编码器 Single Encoder

型号 Actuator Full Name	货品编码 Product Code
RMD-FL-50-8	1106090000000000

尺寸安装图 Installation Drawing



产品参数 Product Parameters

产品名称 Item Name	FL-50-8	
减速机类型 Reducer Type	-	无框力矩减速机 Frameless torque reducer
极数 Number of poles	-	30
相数 Number of phases	-	3
额定电压 Rated voltage	V	48
额定转矩 Rated torque	N.m	3.9
额定电流 Rated current	A	14.1
额定速度 Rated speed	RPM	1400
额定功率 Rated power	W	570
最大转速 Maximum speed	RPM	1900
峰值扭矩 Peak torque	N.m	17.1
峰值电流 Peak current	A	49
线电阻 Line to line resistance	ohms@20℃	0.15
线电感 Line to line inductance	mH	0.25
转矩常数 Torque constant	Nm/A	0.293
反电势 Back EMF	Vrms/KRPM	17.7
机身长度 Motor length	mm	39
重量 Weight	g	1110
电气时间常数 Electrical time constant	ms	1.7

产品型号 Item Name	FL-50-8	公差 Tolerance
定子外径D Stator outer diameter D	mm 115mm	js9
定子长度L Stator length L	mm 39mm	1
转子内径D1 Rotor inner diameter D1	mm 74mm	8H
转子长度L1 Rotor length L1	mm 32.7mm	±0.25
灌胶面外圆E Glue filling surface outer circle E	mm 112mm	±0.2
灌胶面高度F Glue filling surface height F	mm 5.5mm	±0.3



## 全球代理 Global Distributor

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 网址: www.myactuator.cn  
 地址: 江苏省昆山市花桥镇远创路599号二栋

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 E-mail: eric.regnard@a2v.fr  
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#### NetivTech Ltd

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