

MYACTUATOR

专业 • 可靠 • 精进



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苏州脉塔智能科技有限公司

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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

Frameless Motor

无框力矩电机

Integrated Harmonic Actuator

一体化谐波模组

Hollow Direct Drive Actuator

中空直驱模组

Integrated Direct Drive Actuator

一体化直驱模组

Integrated Planetary Actuator

一体化行星减速模组

GENERAL 2024 CATALOG 产品综合手册



关于我们

About MYACTUATOR

5+
产品系列
Product Series

64+
技术人才
Technical talents

40+
技术专利
technology patent

4000^{m²}+
运营面积
Operating area

苏州脉塔智能科技有限公司是一家专注于一体化智能伺服执行器的创新型科技公司。

公司成立于2020年，系苏州市重点科技型企业。先后荣获“江苏省科技型中小企业”，“昆山市科技型企业”，“苏州市人才科创企业”，“高新技术企业”等荣誉。

现有各类技术人才64名，技术专利40项，形成5大产品系列，上百款产品；综合运营面积超4000平，拥有完善的电机设计研发、生产制造及检测设备和先进的质量管理体系。

Suzhou Micro Actuator Technology Co., Ltd, an innovative technology company, focusing on integrated intelligent servo actuators.

The company established in 2020 and is a key technology enterprise in Suzhou. It has successively won the honors of "Jiangsu Province Science and Technology Small and Medium-sized Enterprises", "Kunshan City Science and Technology Talent Enterprise", "Suzhou City Talent Science and Technology Innovation Enterprise", "High-tech Enterprise" and other honors.

There are currently 64 technical talents of various types and 40 technical patents, forming 5 major product series and hundreds of products; the comprehensive operating area exceeds 4,000 square meters, with complete motor design and development, manufacturing and testing equipment and Advanced quality management system.



产品目录

Product Catalog

FL Series	RH Series	H Series	L Series	X Series
FL-38-12 A-5	Dual encoder	H-50-15 C-5	L-4005 D-5	X4-3 E-5
FL-50-08 A-7	RH-14 B-5	H-70-15 C-7	L-4010 D-7	X6-7 E-7
FL-50-15 A-9	RH-17 B-7	H-90-15 C-9	L-4015 D-9	X6-40 E-9
FL-70-10 A-11	RH-20 B-9		L-5005 D-11	X8-25 E-11
FL-70-16 A-13	RH-25 B-11		L-5010 D-13	X6-8 E-13
FL-85-13 A-17	RH-32 B-13		L-5015 D-15	X8-20 E-15
FLO-50-15 A-19	Single Encoder		L-7015 D-17	X8-60 E-17
FLO-70-15 A-21	RH-14 B-19		L-7025 D-19	X10-40 E-19
FLO-90-15 A-23	RH-17 B-21		L-9015 D-21	X10-100 E-21
	RH-20 B-23		L-9025 D-23	X4-24 E-23
	RH-25 B-25			X8-90 E-25
	RH-32 B-27			X12-150 E-27
				X15-400 E-29

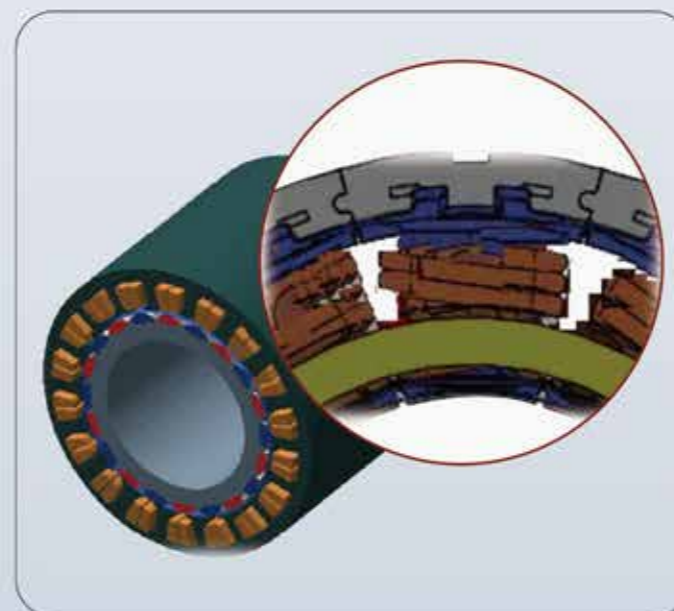
内转子无框力矩电机模组
Inner rotor frameless torque motor module

FL系列 无框电机 Frameless Motor

真空灌封 | 散热佳 | 高效率 | 大功率
Vacuum potting | Good heat dissipation | High efficiency | High Power



一体式环氧灌封工艺 Integrated epoxy potting process



采用segment分块式定子结构
Adopt segment block stator structure



霍尔传感器/增量编码器
Hall sensor/Incremental sensors



有效驱控温度管理
Effectively control temperature management



绝缘等级达到F级以上
Insulation grade reaches F grade or above

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

RMD-FL-50-15-200



- ① 品牌名称: RMD (Reducer Motor Drive)
Brand Name R-Reducer M-Motor D-Drive
- ② FL代表系列名: 内转子无框力矩电机模组
FL Stands For The Series Name: Inner rotor frameless torque motor Actuator
- ③ 定子直径 50
Stator diameter 50
- ④ 转子高度 15
Rotor height
- ⑤ 额定功率 200W
Rated power 200W

例如 For example

型号 RMD-FL-85-13-500

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
500: 额定功率

Model RMD-FL-85-13-500

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



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



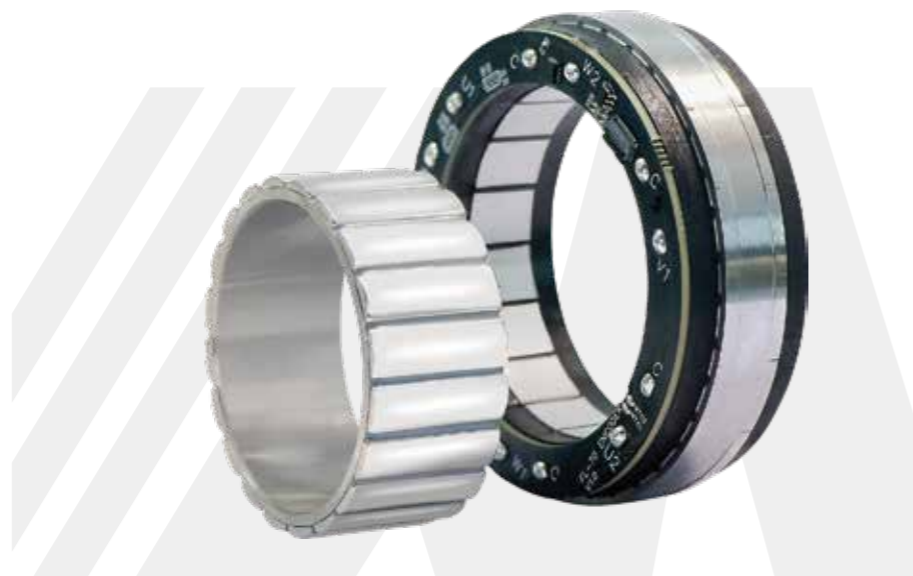
航空工业
Aviation Industry

系列名 Series Name

RMD-FL

电机简称 Motor Simplified Name

FL-38-12

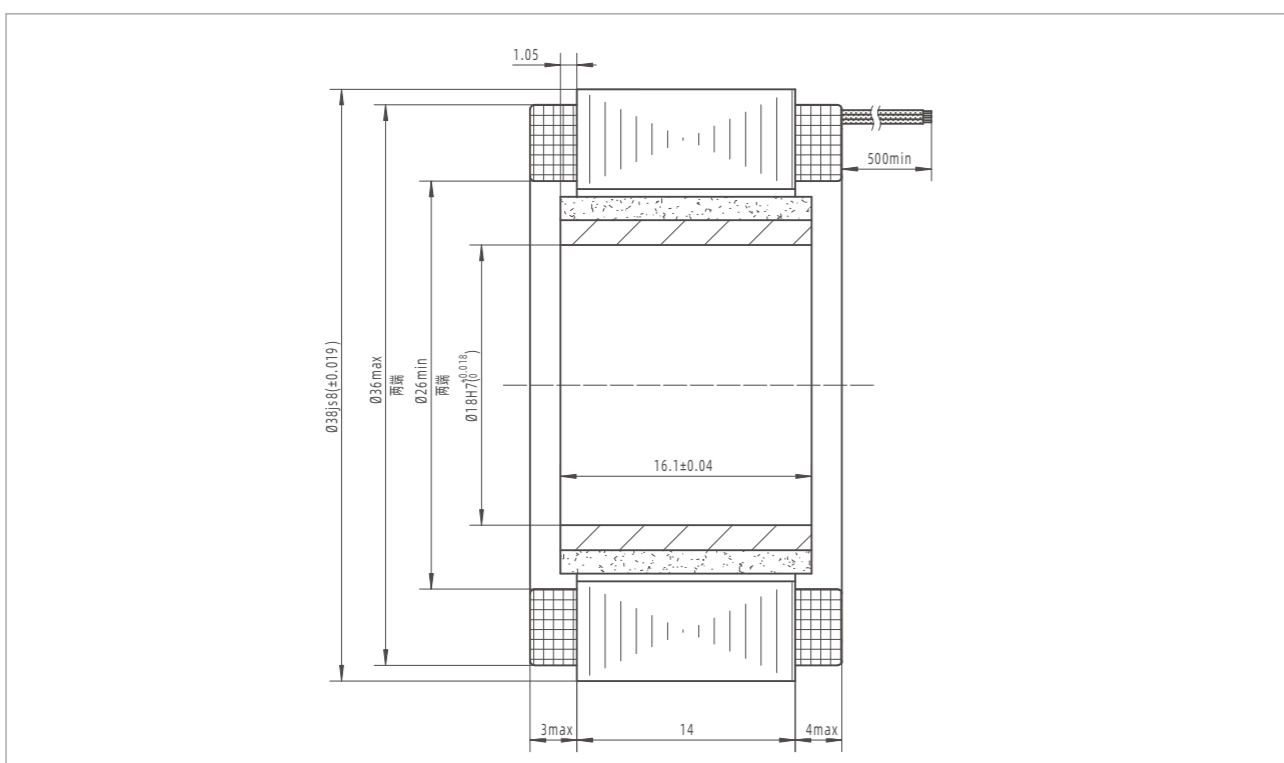


型号 Actuator Full Name	编码器 Encoder
RMD-FL-38-12-240	Hall+INC

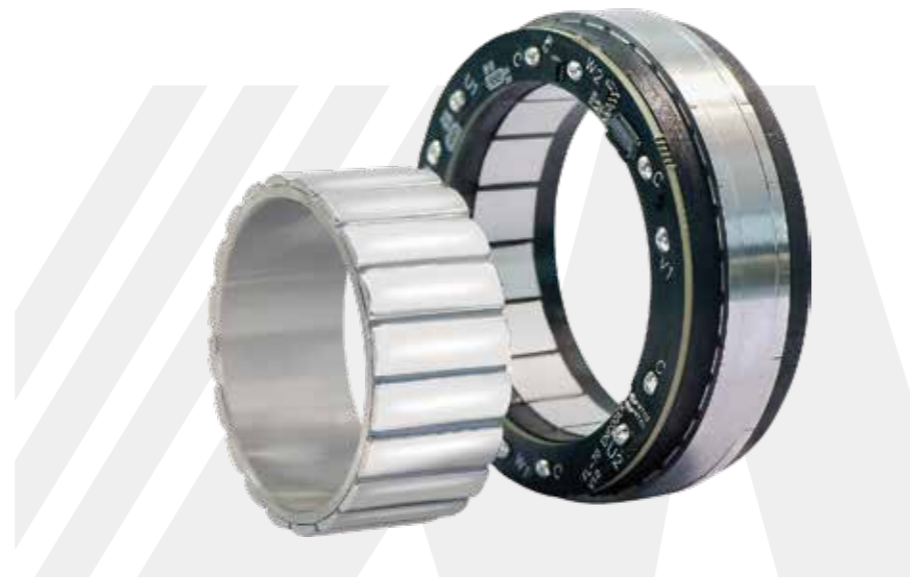
产品参数 Product Parameters

参数 Parameters	单位 Unit	FL-38-12
输入电压 Input Voltage	V	48
空载电流 No Load Current	A	-
额定转速 Rated Speed	RPM	9970
额定转矩 Rated Torque	N.m	0.23
额定功率 Rated Power	W	240
额定电流 Rated Current	A	6.1 (REF)
峰值扭矩 Peak Torque	N.m	0.47 (REF)
峰值电流 Peak Current	A	-
效率 Efficiency	%	-
反电势常数 Back-EMF Constant	Vdc/Krpm	2.4
扭矩常数 Torque Constant	N.m/A	0.03
线电阻 Phase Resistance	Ω	0.5
线电感 Phase Inductance	mH	0.27
极对数 Pole Pair	-	7
齿槽转矩 Cogging Torque	N.m	-
接线方式 3 Phase Connection	-	-
编码器类型及接口 Encoder Type&Interface	-	-
重复定位精度 Repeat Position Accuracy	Degree	270
重量 Weight	Kg	-
绝缘等级 insulation grade	-	F

尺寸安装图 Installation Drawing

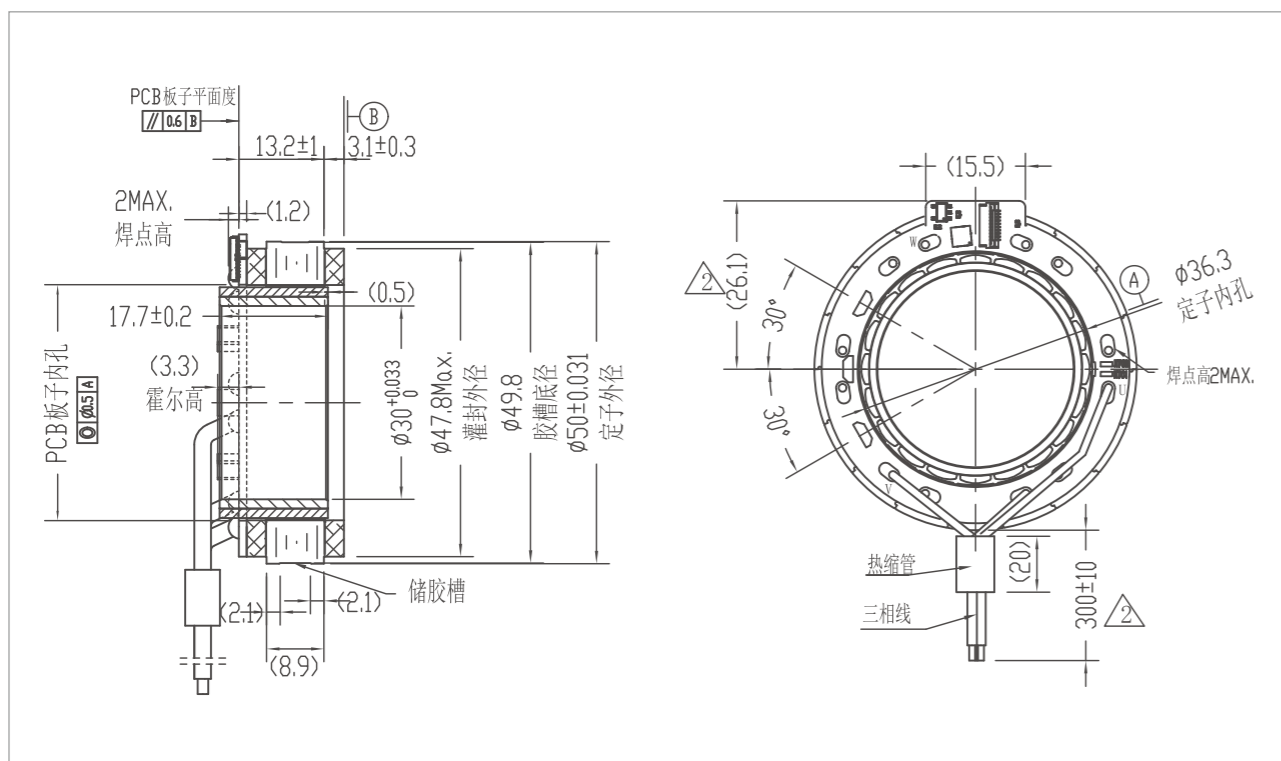


系列名 Series Name
RMD-FL
 电机简称 Motor Simplified Name
FL-50-08



型号 Actuator Full Name	编码器 Encoder
RMD-FL-50-08-180	Hall+INC

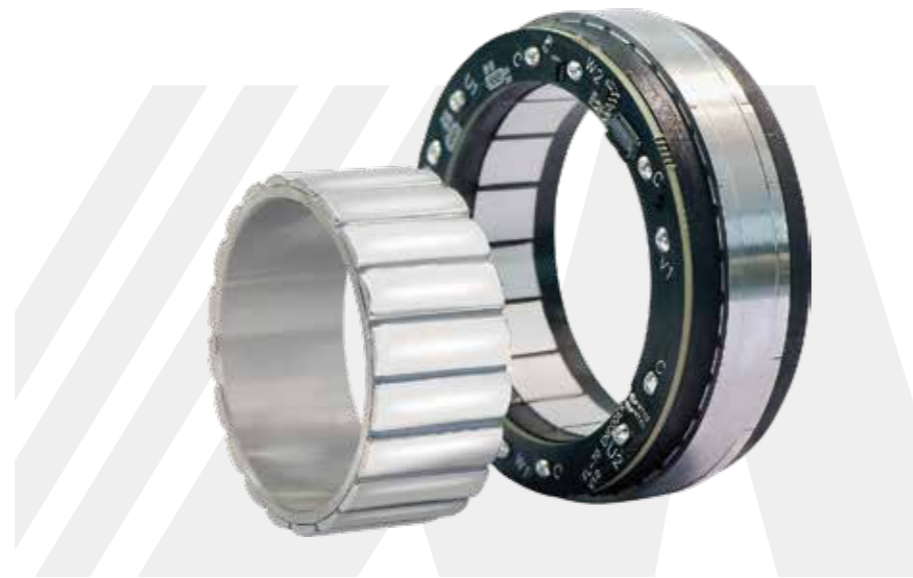
尺寸安装图 Installation Drawing



产品参数 Product Parameters

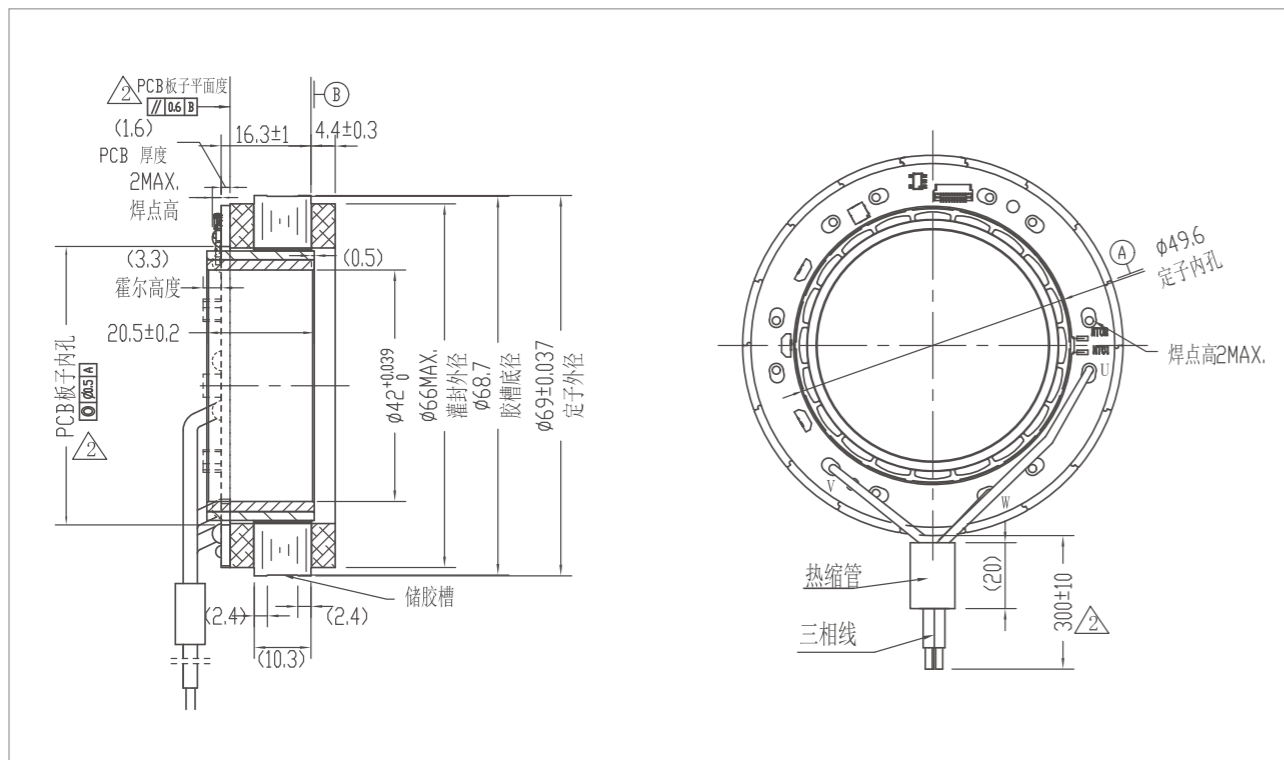
参数 Parameters	单位 Unit	FL-50-08
输入电压 Input Voltage	V	48
空载电流 No Load Current	A	0.35
额定转速 Rated Speed	RPM	5200
额定转矩 Rated Torque	N.m	0.3
额定功率 Rated Power	W	163
额定电流 Rated Current	A	3.9
峰值扭矩 Peak Torque	N.m	0.96
峰值电流 Peak Current	A	12.48
效率 Efficiency	%	>83%
反电势常数 Back-EMF Constant	Vdc/Krpm	5.37
扭矩常数 Torque Constant	N.m/A	0.08
线电阻 Phase Resistance	Ω	0.62
线电感 Phase Inductance	mH	0.43
极对数 Pole Pair	-	10
齿槽转矩 Cogging Torque	N.m	-
接线方式 3 Phase Connection	-	Y
编码器类型及接口 Encoder Type&Interface	-	Hall+INC
重量 Weight	Kg	0.11
绝缘等级 insulation grade	-	F

系列名 Series Name
RMD-FL
 电机简称 Motor Simplified Name
FL-70-10



型号 Actuator Full Name	编码器 Encoder
RMD-FL-70-10-250	Hall+INC

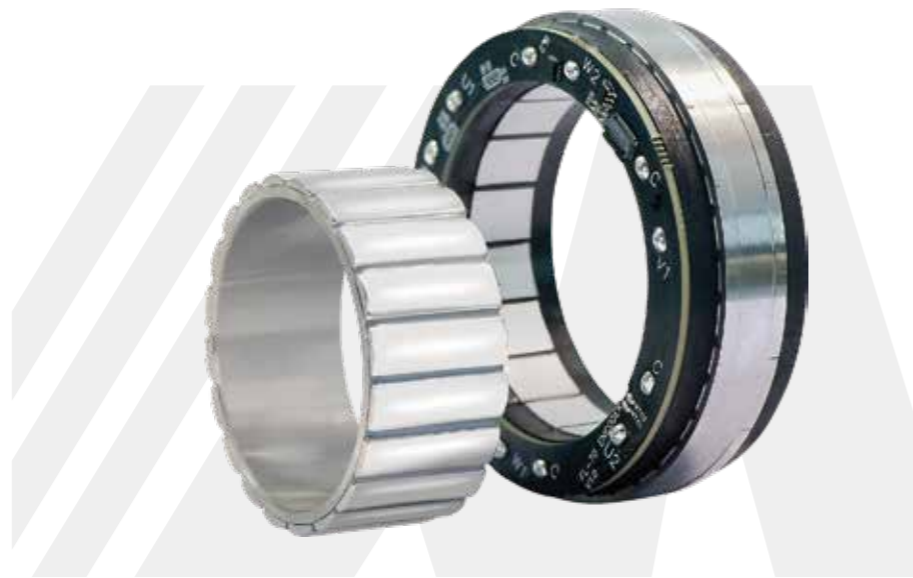
尺寸安装图 Installation Drawing



产品参数 Product Parameters

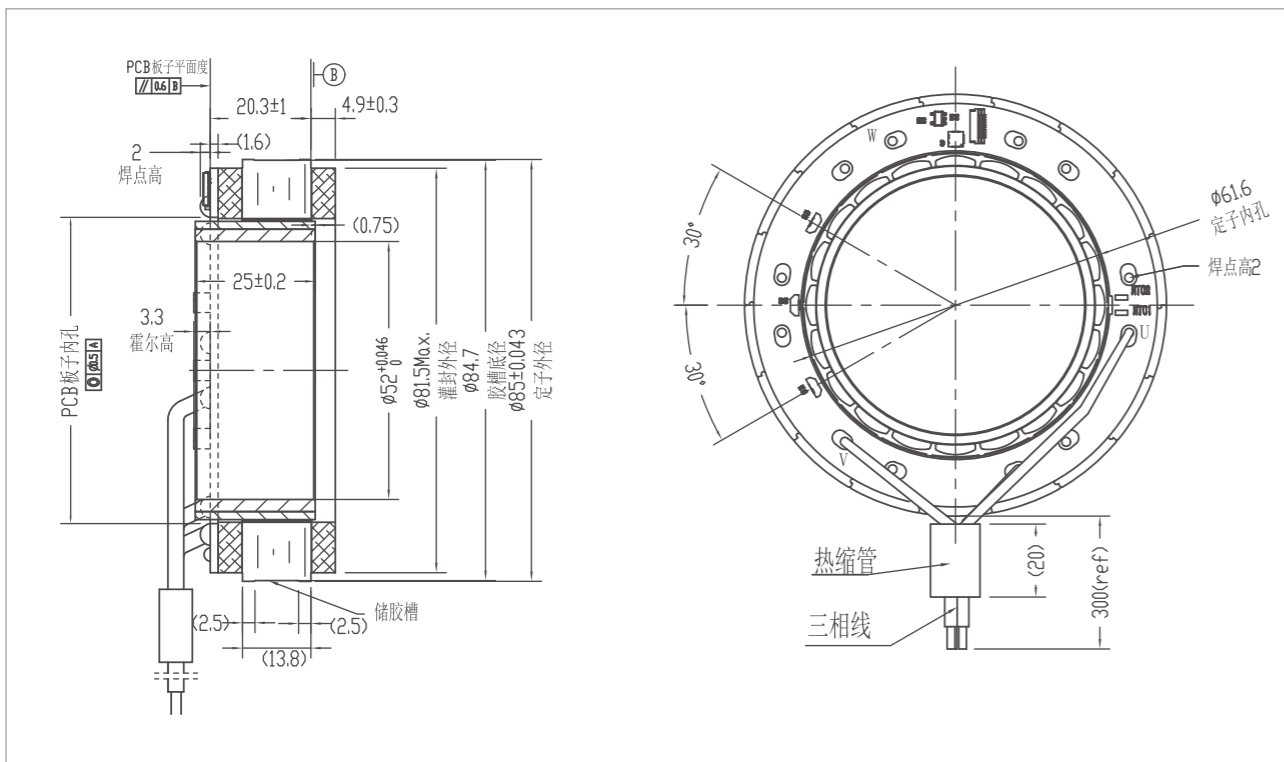
参数 Parameters	单位 Unit	FL-70-10
输入电压 Input Voltage	V	48
空载电流 No Load Current	A	0.42
额定转速 Rated Speed	RPM	3500
额定转矩 Rated Torque	N.m	0.55
额定功率 Rated Power	W	201
额定电流 Rated Current	A	4.4
峰值扭矩 Peak Torque	N.m	1.65
峰值电流 Peak Current	A	13.8
效率 Efficiency	%	>82%
反电势常数 Back-EMF Constant	Vdc/Krpm	8.34
扭矩常数 Torque Constant	N.m/A	0.12
线电阻 Phase Resistance	Ω	0.36
线电感 Phase Inductance	mH	0.51
极对数 Pole Pair	-	10
齿槽转矩 Cogging Torque	N.m	-
接线方式 3 Phase Connection	-	Y
编码器类型及接口 Encoder Type&Interface	-	Hall+INC
重量 Weight	Kg	0.24
绝缘等级 insulation grade	-	F

系列名 Series Name
RMD-FL
 电机简称 Motor Simplified Name
FL-85-13



型号 Actuator Full Name	编码器 Encoder
RMD-FL-85-13-500	Hall+INC

尺寸安装图 Installation Drawing



产品参数 Product Parameters

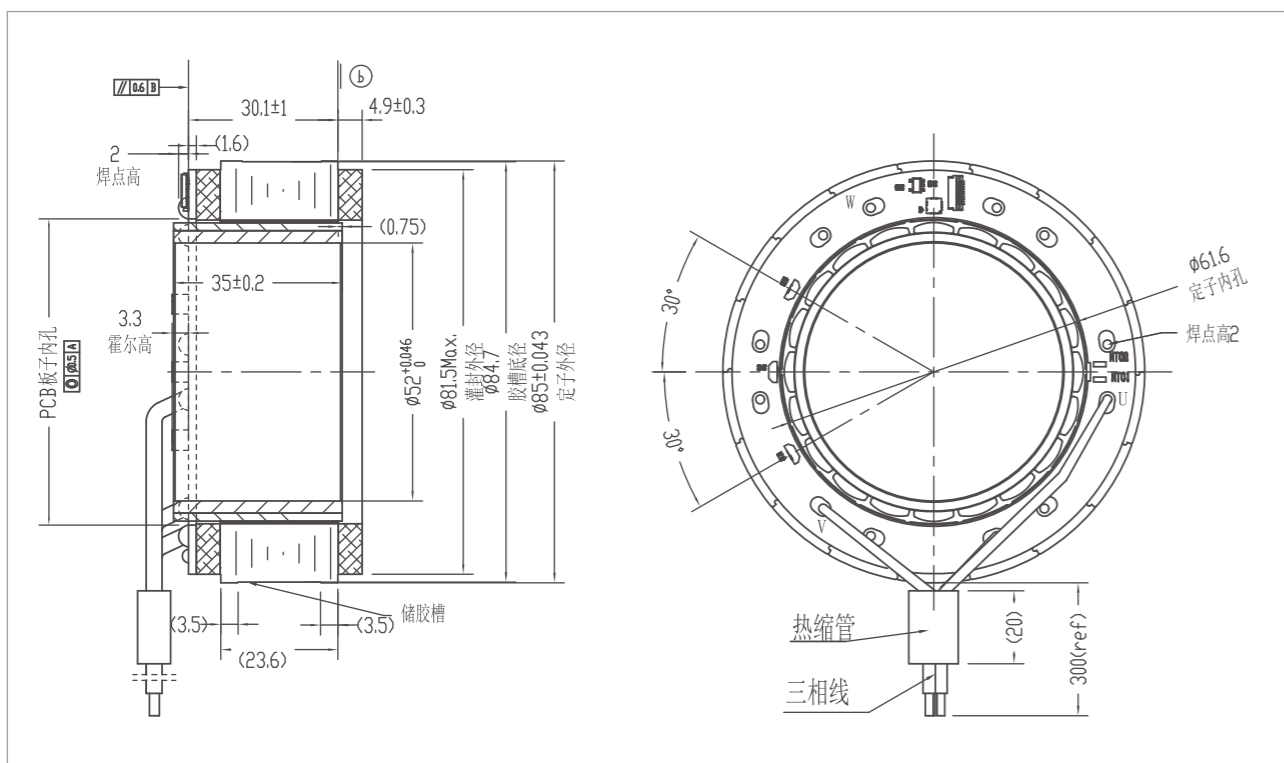
参数 Parameters	单位 Unit	FL-85-13
输入电压 Input Voltage	V	48
空载电流 No Load Current	A	0.37
额定转速 Rated Speed	RPM	2400
额定转矩 Rated Torque	N.m	1.3
额定功率 Rated Power	W	408
额定电流 Rated Current	A	9.4
峰值扭矩 Peak Torque	N.m	3.9
峰值电流 Peak Current	A	28.2
效率 Efficiency	%	>82%
反电势常数 Back-EMF Constant	Vdc/Krpm	9.65
扭矩常数 Torque Constant	N.m/A	0.14
线电阻 Phase Resistance	Ω	0.16
线电感 Phase Inductance	mH	0.33
极对数 Pole Pair	-	10
齿槽转矩 Cogging Torque	N.m	-
接线方式 3 Phase Connection	-	Y
编码器类型及接口 Encoder Type&Interface	-	Hall+INC
重量 Weight	Kg	0.46
绝缘等级 insulation grade	-	F

系列名 Series Name
RMD-FL
 电机简称 Motor Simplified Name
FL-85-23



型号 Actuator Full Name	编码器 Encoder
RMD-FL-85-23-750	Hall+INC

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	FL-85-23
输入电压 Input Voltage	V	48
空载电流 No Load Current	A	0.38
额定转速 Rated Speed	RPM	3500
额定转矩 Rated Torque	N.m	2
额定功率 Rated Power	W	733
额定电流 Rated Current	A	14.5
峰值扭矩 Peak Torque	N.m	6
峰值电流 Peak Current	A	43.5
效率 Efficiency	%	>81%
反电势常数 Back-EMF Constant	Vdc/Krpm	9.63
扭矩常数 Torque Constant	N.m/A	0.14
线电阻 Phase Resistance	Ω	0.08
线电感 Phase Inductance	mH	0.18
极对数 Pole Pair	-	10
齿槽转矩 Cogging Torque	N.m	-
接线方式 3 Phase Connection	-	Y
编码器类型及接口 Encoder Type&Interface	-	Hall+INC
重量 Weight	Kg	-
绝缘等级 insulation grade	-	F

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

RMD-FLO-70-15-200



- ① 品牌名称: RMD (Reducer Motor Drive)
Brand Name R-Reducer M-Motor D-Drive
- ② FLO代表系列名: 外转子无框力矩电机模组
FLO Stands For The Series Name: Outer rotor frameless torque motor Actuator
- ③ 转子外径70
Rotor outer diameter
- ④ 定子叠高15
Stator stack height
- ⑤ 额定功率 200W
Rated power 200W

例如 For example

型号 RMD-FLO-90-15-400

说明

- RMD: 品牌名
- FLO: 外转无框力矩系列
- 90: 转子外径
- 15: 定子叠高
- 400: 额定功率

Model RMD-FLO-90-15-400

Illustrate

- RMD: Brand Name
- FLO: External Rotating Frameless Torque Series
- 90: Rotor outer diameter
- 15: Stator stack height
- 400: Rated power

外转子无框力矩电机模组
Outer rotor frameless torque motor module

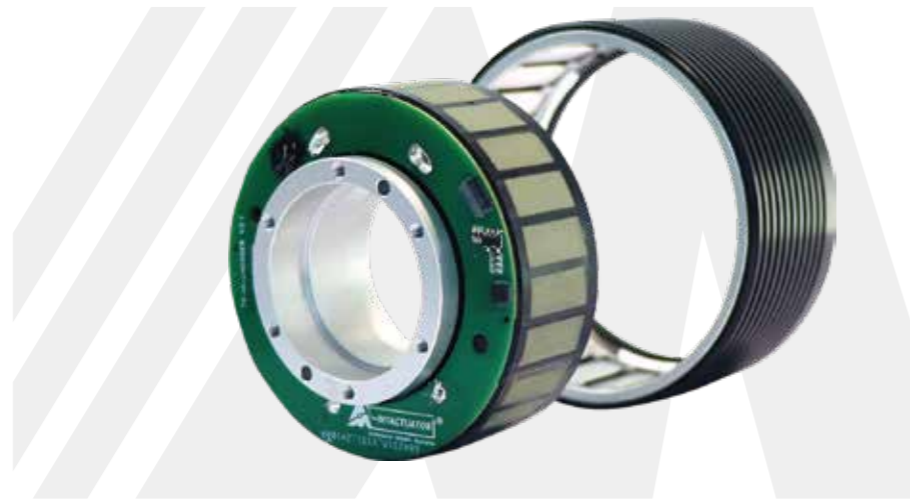
FLO系列 无框电机

Frameless Motor

真空灌封 | 散热佳 | 高效率 | 大功率
Vacuum potting | Good heat dissipation | High efficiency | High Power

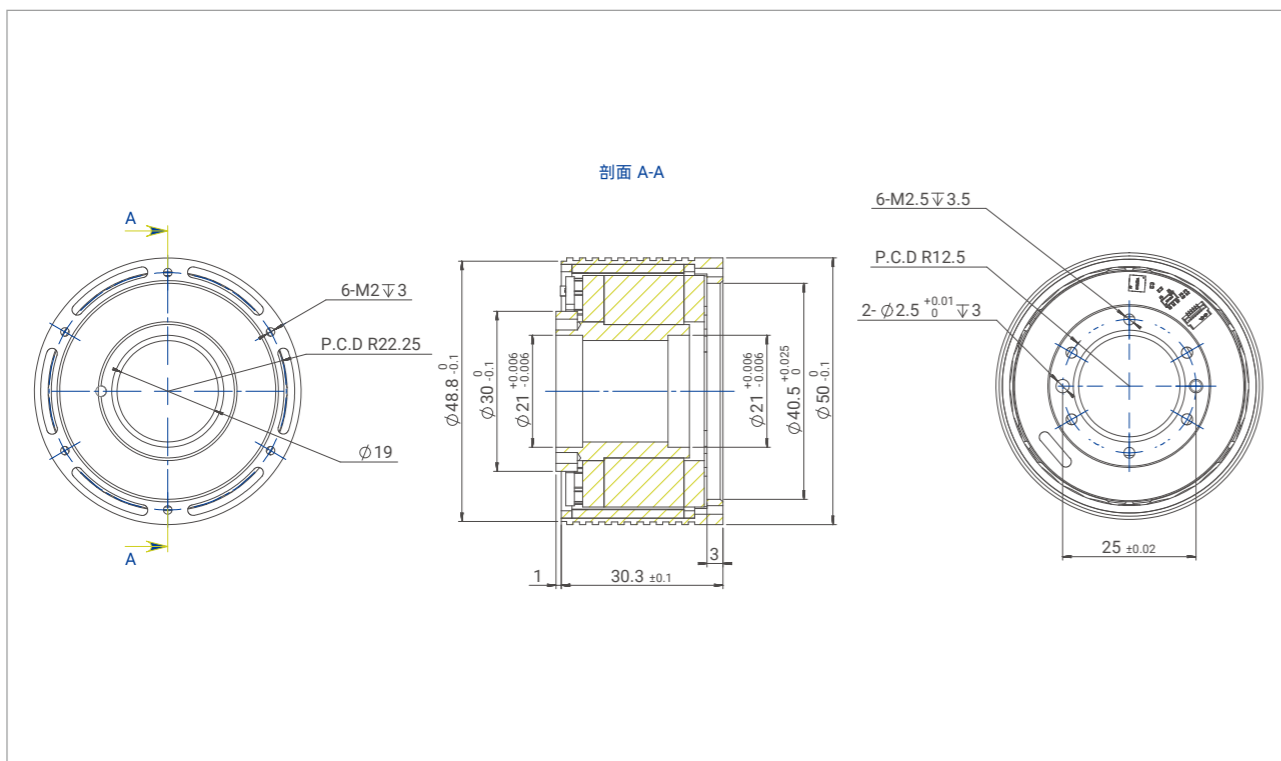


系列名 Series Name
RMD-FLO
 电机简称 Motor Simplified Name
FLO-50-15



型号 Actuator Full Name	编码器 Encoder
RMD-FLO-50-15-100	Hall+INC

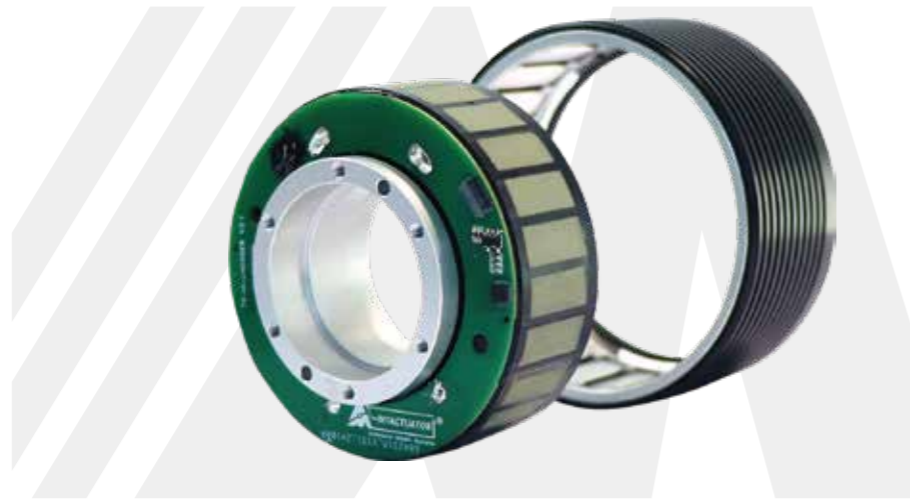
尺寸安装图 Installation Drawing



产品参数 Product Parameters

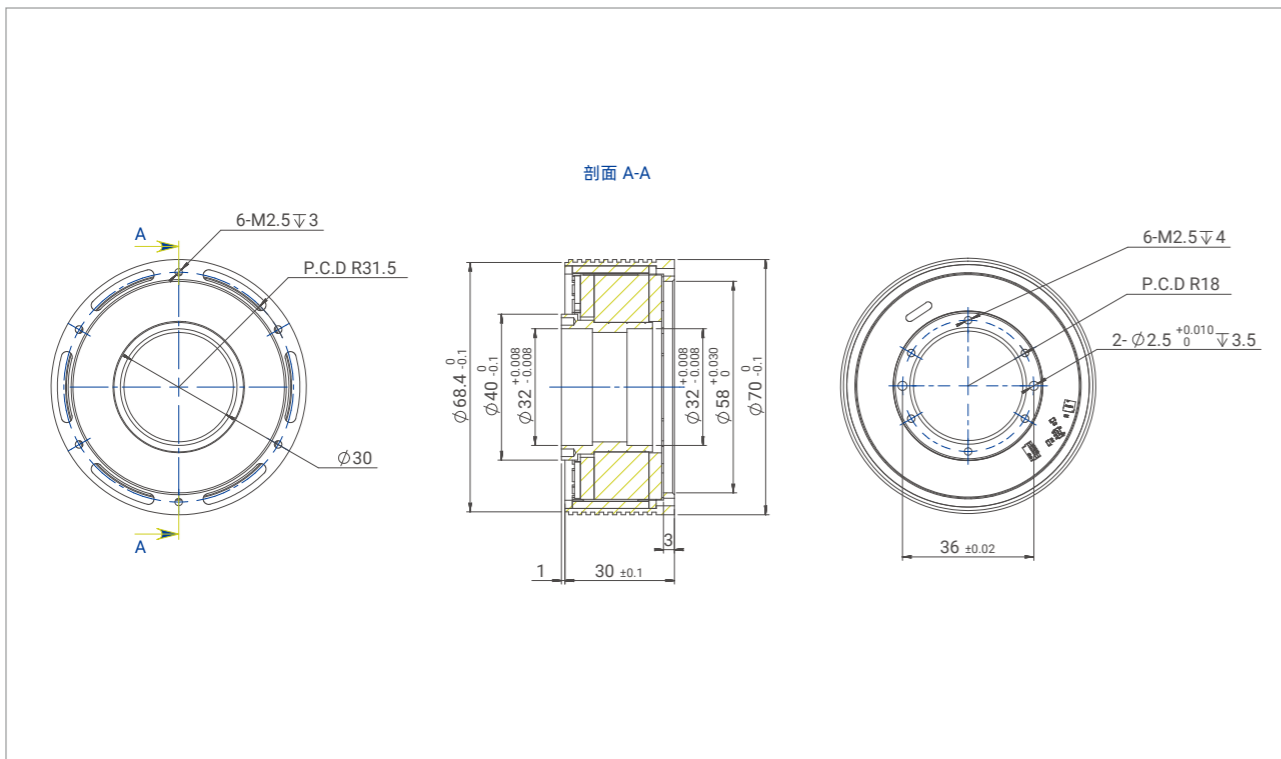
参数 Parameters	单位 Unit	FLO-50-15
输入电压 Input Voltage	V	24
空载电流 No Load Current	A	0.32
额定转速 Rated Speed	RPM	2500
额定转矩 Rated Torque	N.m	0.35
额定功率 Rated Power	W	91.6
额定电流 Rated Current	A	4.9
峰值扭矩 Peak Torque	N.m	0.87
峰值电流 Peak Current	A	14.7
效率 Efficiency	%	>83%
反电势常数 Back-EMF Constant	Vdc/Krpm	7.93
扭矩常数 Torque Constant	N.m/A	0.07
线电阻 Phase Resistance	Ω	0.4
线电感 Phase Inductance	mH	0.19
极对数 Pole Pair	-	13
齿槽转矩 Cogging Torque	N.m	12
接线方式 3 Phase Connection	-	Y
编码器类型及接口 Encoder Type&Interface	-	Hall+INC
重量 Weight	Kg	0.19
绝缘等级 insulation grade	-	F

系列名 Series Name
RMD-FLO
 电机简称 Motor Simplified Name
FLO-70-15



型号 Actuator Full Name	编码器 Encoder
RMD-FLO-70-15-200	Hall+INC

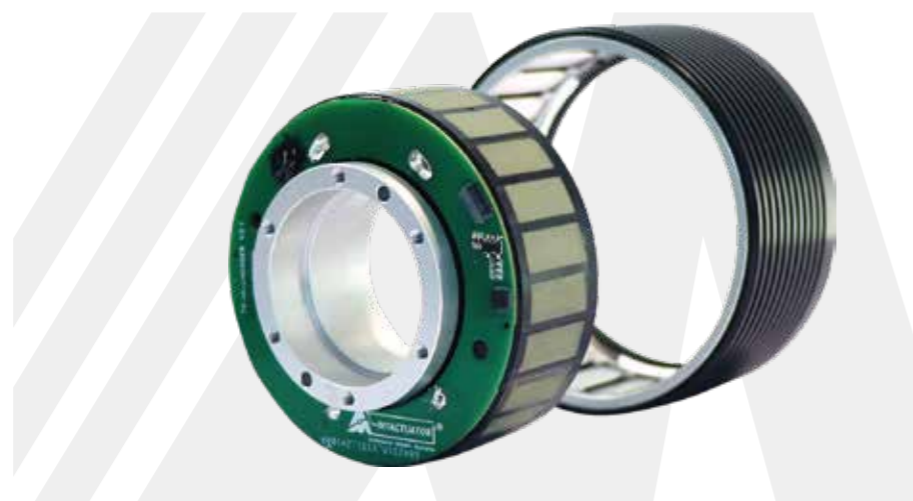
尺寸安装图 Installation Drawing



产品参数 Product Parameters

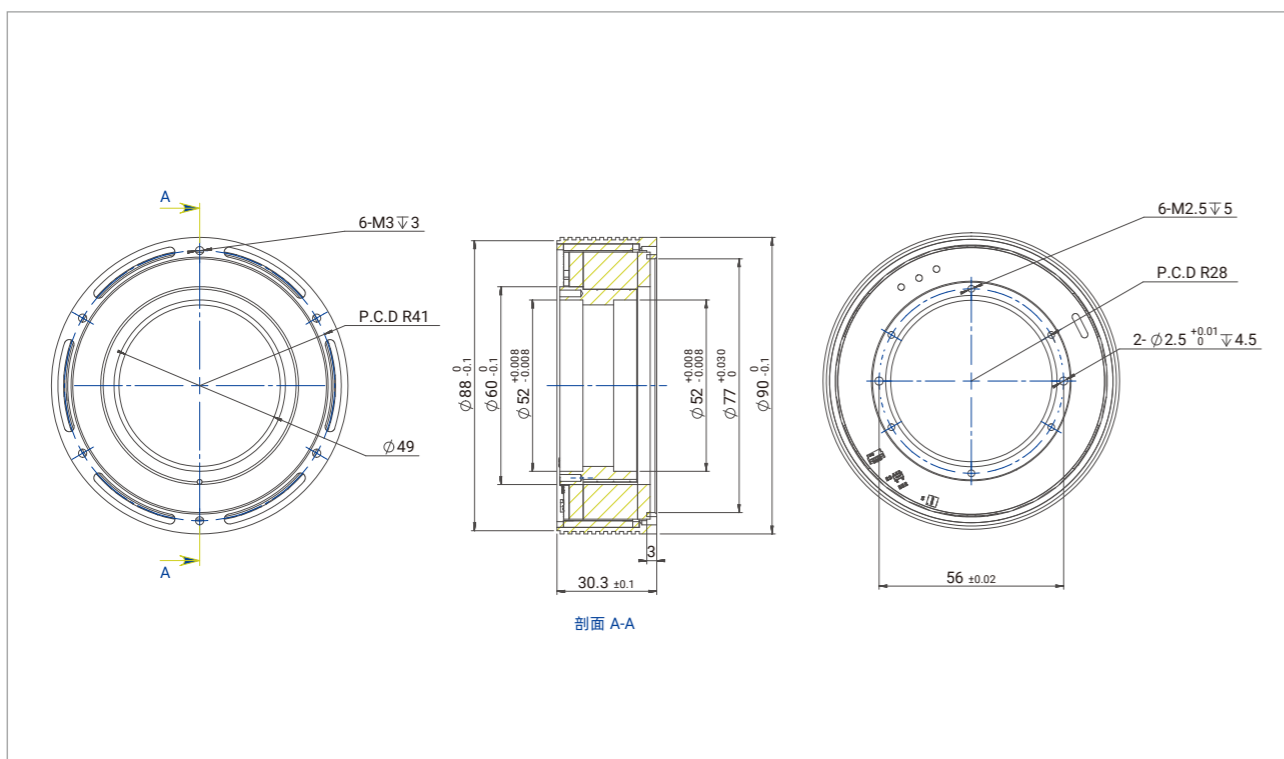
参数 Parameters	单位 Unit	FLO-70-15
输入电压 Input Voltage	V	48
空载电流 No Load Current	A	0.21
额定转速 Rated Speed	RPM	2400
额定转矩 Rated Torque	N.m	0.8
额定功率 Rated Power	W	200
额定电流 Rated Current	A	4.4
峰值扭矩 Peak Torque	N.m	2
峰值电流 Peak Current	A	13.2
效率 Efficiency	%	>84%
反电势常数 Back-EMF Constant	Vdc/Krpm	17
扭矩常数 Torque Constant	N.m/A	0.18
线电阻 Phase Resistance	Ω	0.5
线电感 Phase Inductance	mH	0.55
极对数 Pole Pair	-	13
齿槽转矩 Cogging Torque	N.m	30.83
接线方式 3 Phase Connection	-	Y
编码器类型及接口 Encoder Type&Interface	-	Hall+INC
重量 Weight	Kg	0.33
绝缘等级 insulation grade	-	F

系列名 Series Name
RMD-FLO
 电机简称 Motor Simplified Name
FLO-90-15



型号 Actuator Full Name	编码器 Encoder
RMD-FLO-90-15-400	Hall+INC

尺寸安装图 Installation Drawing



产品参数 Product Parameters

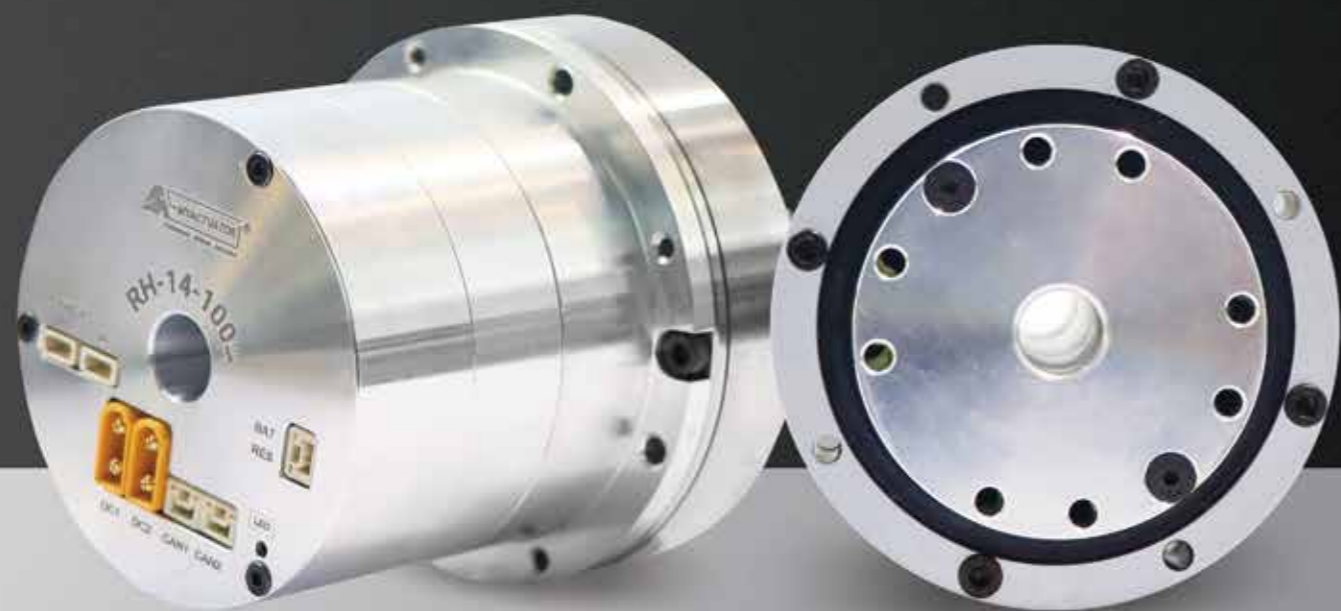
参数 Parameters	单位 Unit	FLO-90-15
输入电压 Input Voltage	V	48
空载电流 No Load Current	A	0.35
额定转速 Rated Speed	RPM	1600
额定转矩 Rated Torque	N.m	1.5
额定功率 Rated Power	W	252
额定电流 Rated Current	A	6.6
峰值扭矩 Peak Torque	N.m	3.75
峰值电流 Peak Current	A	19.8
效率 Efficiency	%	>83%
反电势常数 Back-EMF Constant	Vdc/Krpm	21.1
扭矩常数 Torque Constant	N.m/A	0.23
线电阻 Phase Resistance	Ω	0.35
线电感 Phase Inductance	mH	0.28
极对数 Pole Pair	-	17
齿槽转矩 Cogging Torque	N.m	64
接线方式 3 Phase Connection	-	Y
编码器类型及接口 Encoder Type&Interface	-	Hall+INC
重量 Weight	Kg	0.46
绝缘等级 insulation grade	-	F

一体化谐波模组
Integrated Harmonic Module

RH中空-系列

RH -Harmonic-Series

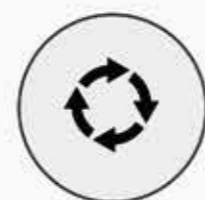
一体化设计、耐振动
Integrated Design、Vibration Resistance



懂你的心 更懂如何用心

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

111



低速稳
STABLE AT LOW SPEED



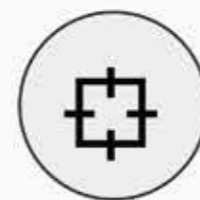
低噪音
LOW NOISE



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

DIVERSIFIED APPLICATION SCENARIOS

多元化适用场景



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

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

EPS-RH-17-100-C-B-D



- ① 品牌名称: EPS
Brand Name E-Efficiency P-Precision S-Smart
- ② RH代表系列名: 一体化谐波模组
RH Stands For The Series Name: Integrated Harmonic Actuator
- 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/E: CAN BUS or EtherCAT
Communication C/E: CAN BUS or EtherCAT
- ⑥ N: 不抱闸 B: 抱闸
N: Without Brake B: with Brake
- ⑦ D: 双编码器 S: 单编码器
D: Dual encoder S: Single encoder

例如 For example

型号 EPS-RH-20-100-C-N-D

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
 N: 不抱闸
 D: 双编码器

Model EPS-RH-20-100-C-N-D

Illustrate
 EPS: Brand Name
 RH: Hollow harmonic module
 20: Harmonic model
 100: Harmonic gear ratio 100:1
 C: Communication C: CAN BUS
 N: Without Brake
 D: Dual encoder

系列名 Series Name
EPS-RH
 电机简称 Motor Simplified Name
RH-14

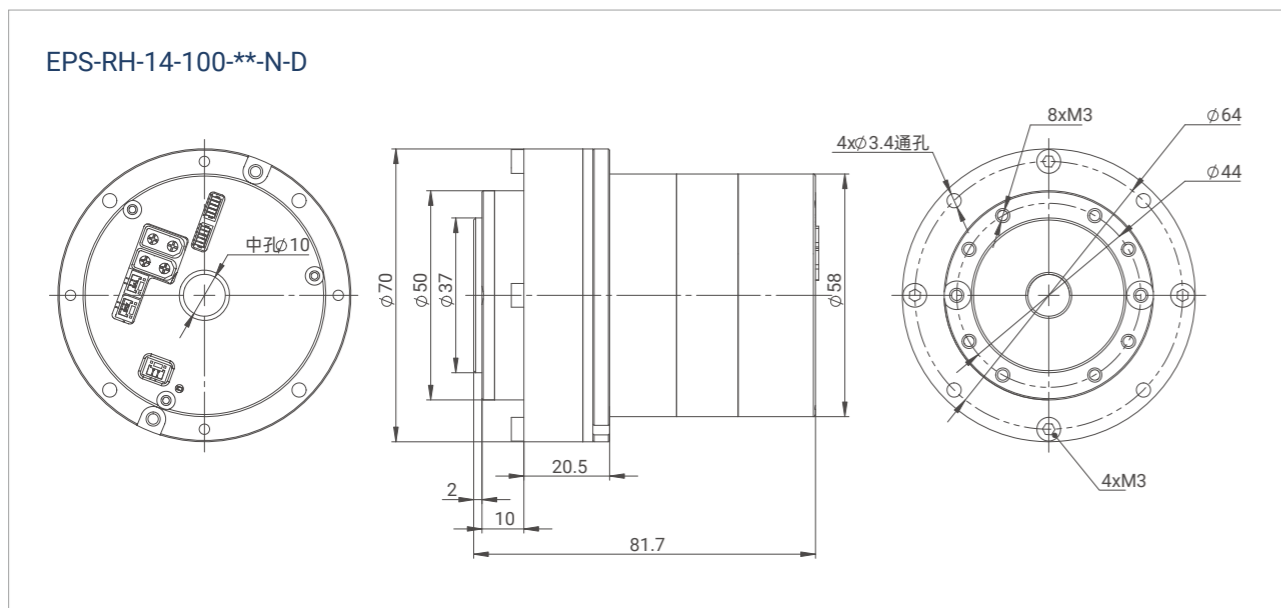


双编码器Dual encoder + EtherCAT
 离轴编码器 Off Axis Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-14-100-C-N-D	N (without brake)	Dual encoder
EPS-RH-14-100-E-N-D	N (without brake)	Dual encoder

* 1. 标准品电机只支持不抱闸。The standard motor can support without brake.
 * 2. 标准品电机没有防水功能，如需IP54请订单前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-14
减速比 Gear ratio		100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	0.9
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	11
额定功率 Rated Power	W	100
额定电流 Rated Current	A	6.5
峰值扭矩 Peak Torque	N.m	28
峰值电流 Peak Current	A	16.25
反电势常数 Back-EMF Constant	Vdc/Krpm	1.39
扭矩常数 Torque Constant	N.m/A	0.02
线电阻 Phase Resistance	Ω	0.62
线电感 Phase Inductance	mH	0.43
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	Dual encoder/ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN /EtherCAT
绝缘等级 Insulation grade	—	F

* **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



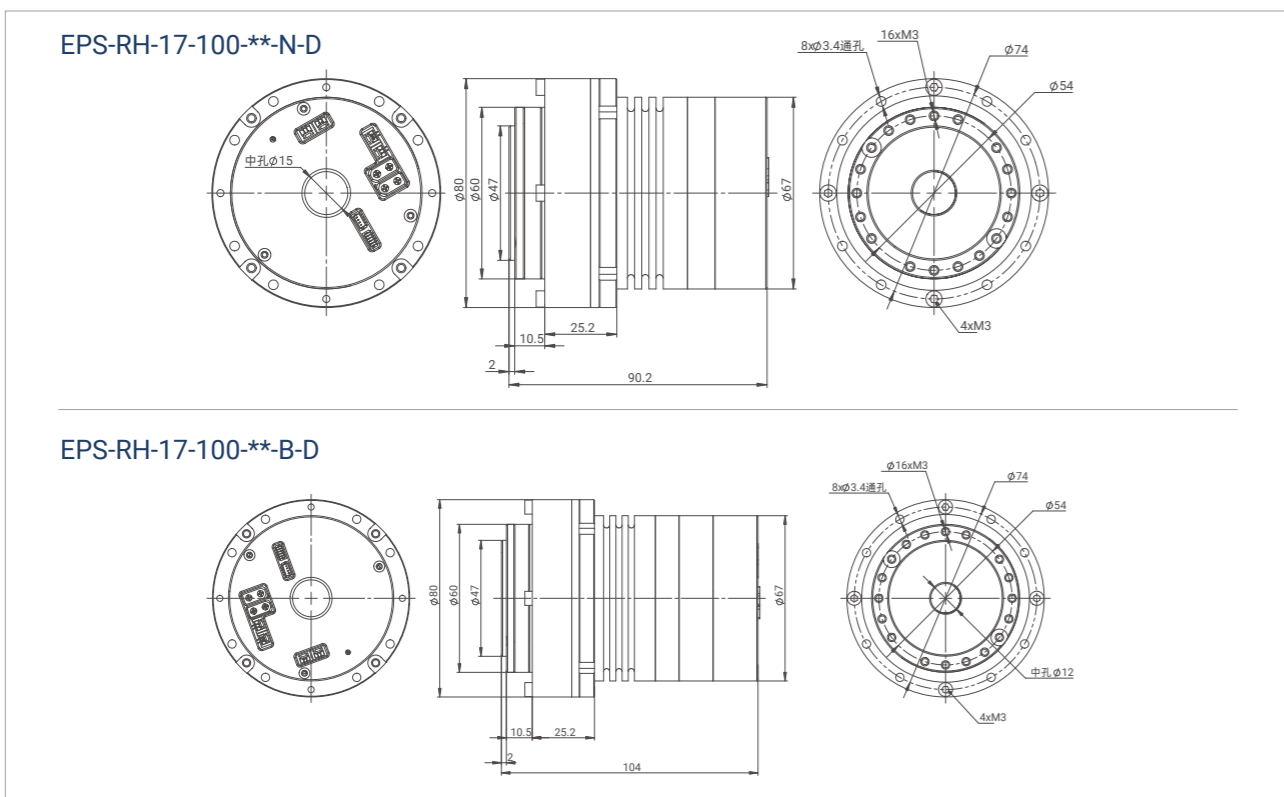
双编码器Dual encoder + EtherCAT

离轴编码器 Off Axis Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-17-100-C-N-D	N (without brake)	Dual encoder
EPS-RH-17-100-E-N-D	N (without brake)	Dual encoder
EPS-RH-17-100-C-B-D	B (with brake)	Dual encoder
EPS-RH-17-100-E-B-D	B (with brake)	Dual encoder

- * 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.
- * 2. 标准品电机没有防水功能，如需IP54请订单一联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 3. 标准品电机支持CAN BUS和EtherCAT。The standard motor support CAN BUS and EtherCAT.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-17
减速比 Gear ratio		100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	1.45
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	35
额定功率 Rated Power	W	180
额定电流 Rated Current	A	9
峰值扭矩 Peak Torque	N.m	54
峰值电流 Peak Current	A	13.86
反电势常数 Back-EMF Constant	Vdc/Krpm	2.79
扭矩常数 Torque Constant	N.m/A	0.04
线电阻 Phase Resistance	Ω	0.7
线电感 Phase Inductance	mH	0.47
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	Dual encoder/ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN /EtherCAT
绝缘等级 Insulation grade	—	F

* 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-20



双编码器 Dual encoder + EtherCAT

离轴编码器 Off Axis Encoder

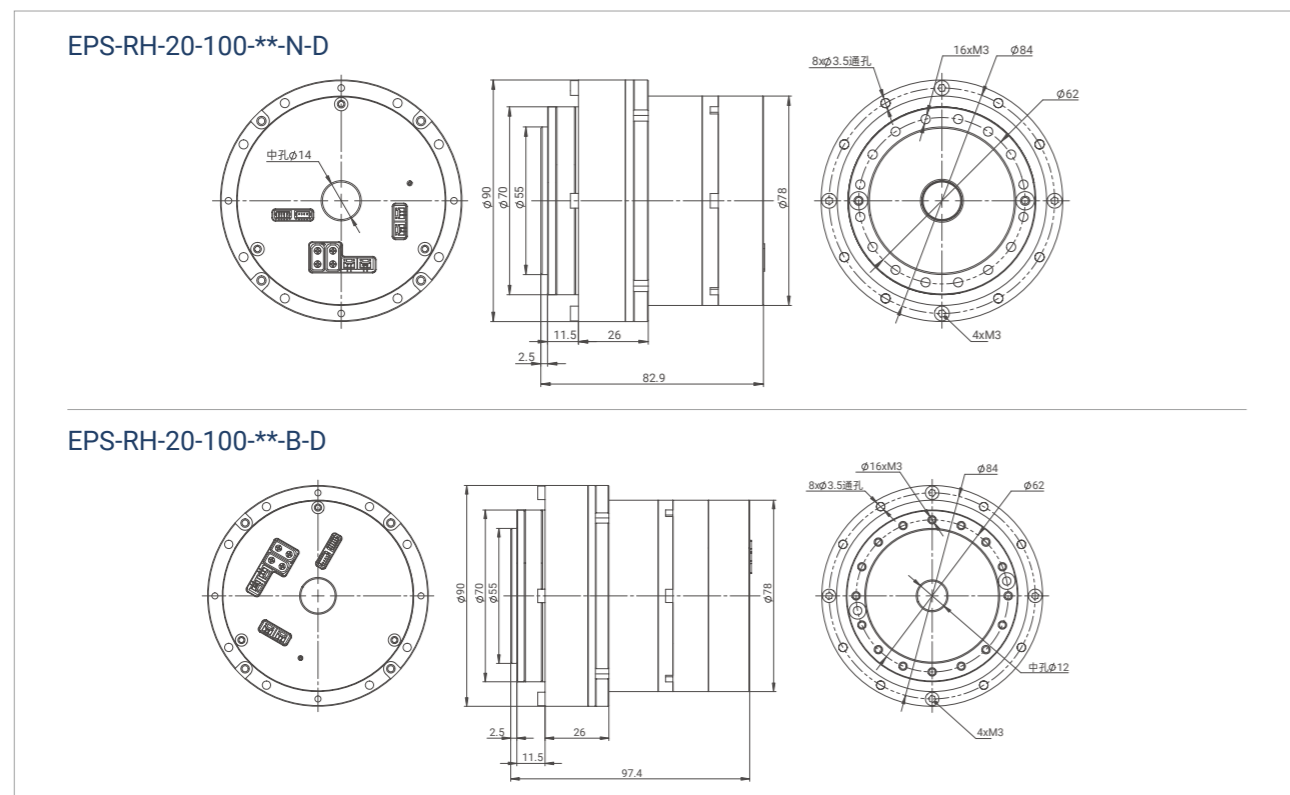
型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-20-100-C-N-D	N (without brake)	Dual encoder
EPS-RH-20-100-E-N-D	N (without brake)	Dual encoder
EPS-RH-20-100-C-B-D	B (with brake)	Dual encoder
EPS-RH-20-100-E-B-D	B (with brake)	Dual encoder

* 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.

* 2. 标准品电机没有防水功能，如需IP54请订单一联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.

* 3. 标准品电机支持CAN BUS和EtherCAT。The standard motor support CAN BUS and EtherCAT.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-20
减速比 Gear ratio		100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	2.59
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	50
额定功率 Rated Power	W	250
额定电流 Rated Current	A	13
峰值扭矩 Peak Torque	N.m	80
峰值电流 Peak Current	A	20.8
反电势常数 Back-EMF Constant	Vdc/Krpm	2.79
扭矩常数 Torque Constant	N.m/A	0.04
线电阻 Phase Resistance	Ω	0.36
线电感 Phase Inductance	mH	0.51
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	Dual encoder/ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN /EtherCAT
绝缘等级 Insulation grade	—	F

* 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-25



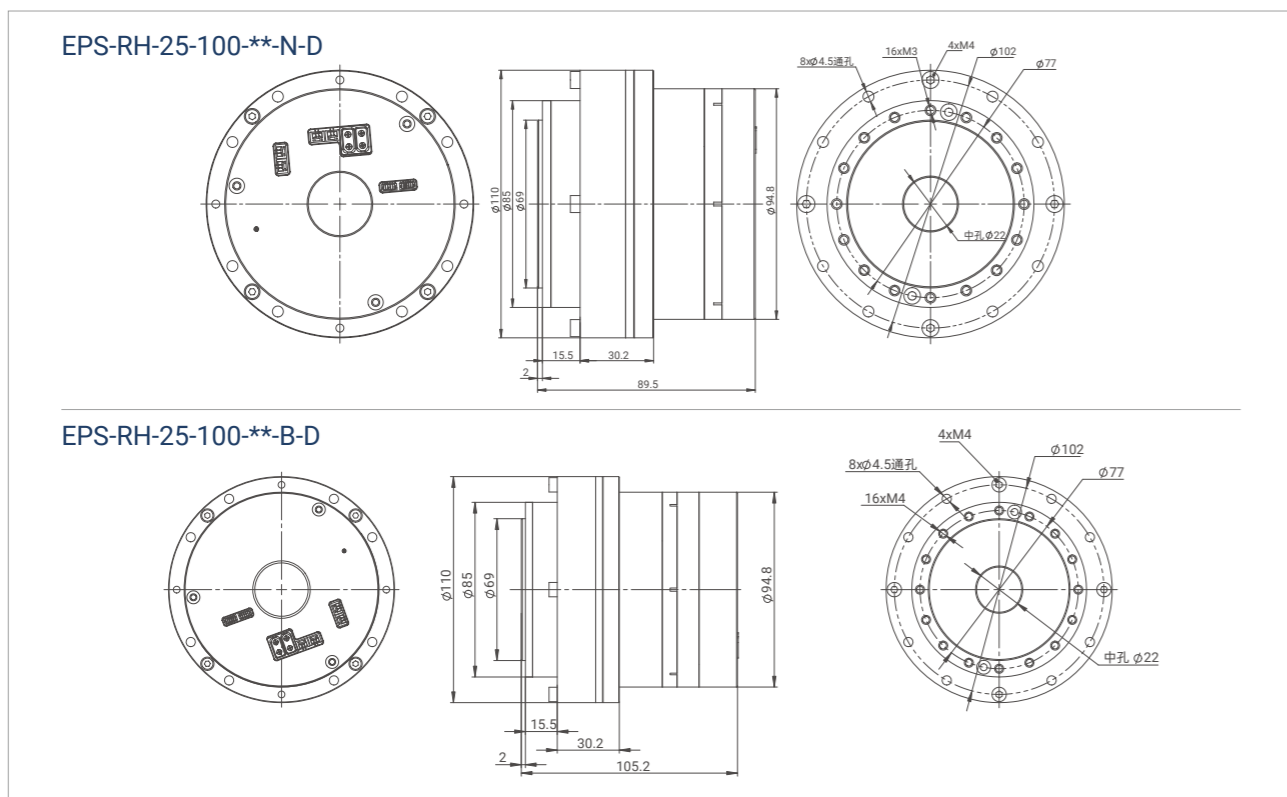
双编码器 Dual encoder + EtherCAT

离轴编码器 Off Axis Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-25-100-C-N-D	N (without brake)	Dual encoder
EPS-RH-25-100-E-N-D	N (without brake)	Dual encoder
EPS-RH-25-100-C-B-D	B (with brake)	Dual encoder
EPS-RH-25-100-E-B-D	B (with brake)	Dual encoder

- * 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.
- * 2. 标准品电机没有防水功能，如需IP54请订单前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 3. 标准品电机支持CAN BUS和EtherCAT。The standard motor support CAN BUS and EtherCAT.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-25
减速比 Gear ratio		100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	1.61
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	108
额定功率 Rated Power	W	400
额定电流 Rated Current	A	16
峰值扭矩 Peak Torque	N.m	157
峰值电流 Peak Current	A	23.2
反电势常数 Back-EMF Constant	Vdc/Krpm	4.89
扭矩常数 Torque Constant	N.m/A	0.07
线电阻 Phase Resistance	Ω	0.155
线电感 Phase Inductance	mH	0.33
极对数 Pole Pair	-	10
接线方式 3 Phase Connection	-	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	-	Dual encoder/ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	-	CAN /EtherCAT
绝缘等级 Insulation grade	-	F

* 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-32



双编码器 Dual encoder + EtherCAT

离轴编码器 Off Axis Encoder

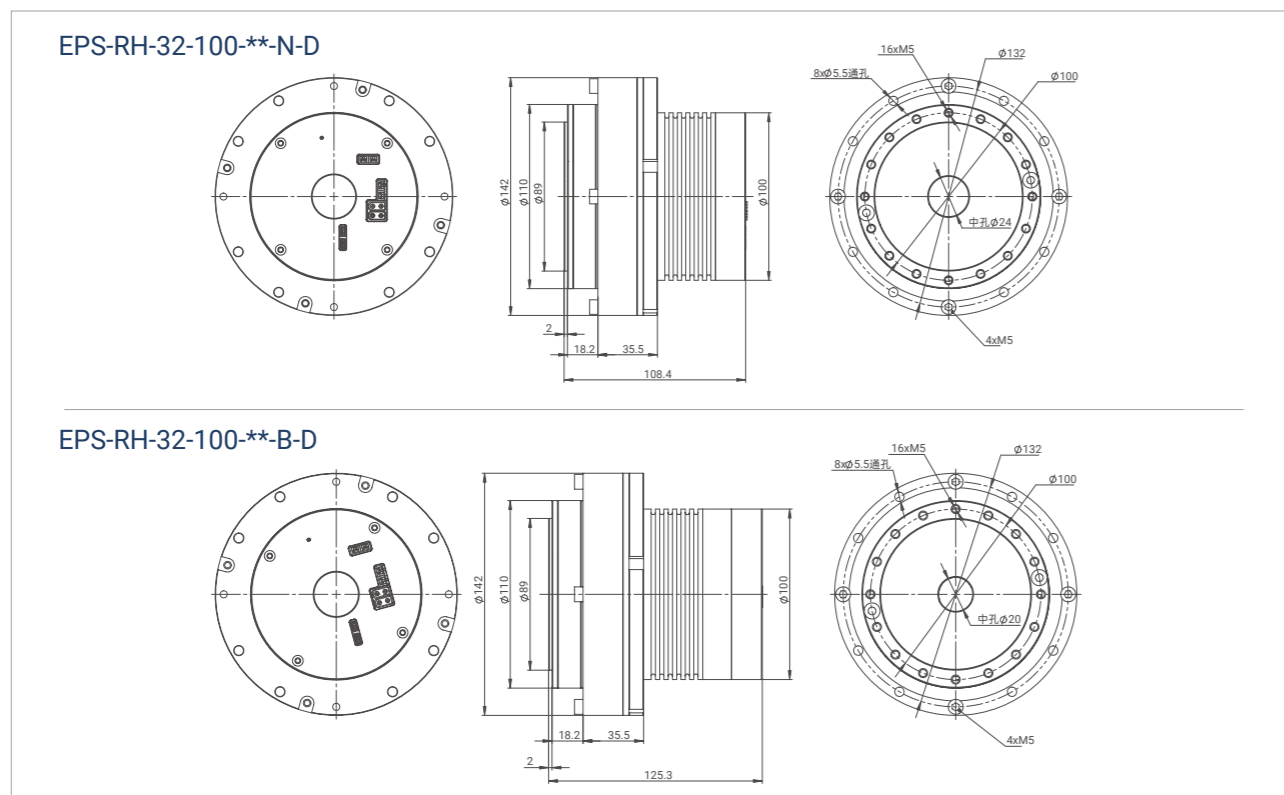
型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-32-100-C-N-D	N (without brake)	Dual encoder
EPS-RH-32-100-E-N-D	N (without brake)	Dual encoder
EPS-RH-32-100-C-B-D	B (with brake)	Dual encoder
EPS-RH-32-100-E-B-D	B (with brake)	Dual encoder

* 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.

* 2. 标准品电机没有防水功能，如需IP54请订单前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.

* 3. 标准品电机支持CAN BUS和EtherCAT。The standard motor support CAN BUS and EtherCAT.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-32
减速比 Gear ratio		100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	20
空载电流 No Load Current	A	3.9
额定转速 Rated Speed	RPM	18
额定转矩 Rated Torque	N.m	150
额定功率 Rated Power	W	700
额定电流 Rated Current	A	20
峰值扭矩 Peak Torque	N.m	229
峰值电流 Peak Current	A	33.44
反电势常数 Back-EMF Constant	Vdc/Krpm	6.28
扭矩常数 Torque Constant	N.m/A	0.09
线电阻 Phase Resistance	Ω	0.08
线电感 Phase Inductance	mH	0.18
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	Dual encoder/ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN /EtherCAT
绝缘等级 Insulation grade	—	F

* 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.

一体化谐波模组
Integrated Harmonic Module

RH中空-系列

RH -Harmonic-Series

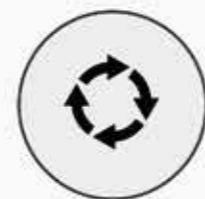
一体化设计、耐振动
Integrated Design、Vibration Resistance



懂你的心 更懂如何用心

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

|||



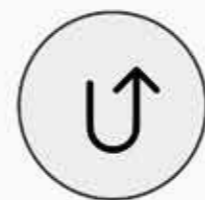
低速稳
STABLE AT LOW SPEED



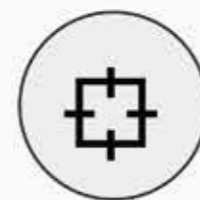
低噪音
LOW NOISE



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

DIVERSIFIED APPLICATION SCENARIOS

多元化适用场景



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

EPS-RH系列产品命名规则

EPS-RH SERIES NAMING CONVENTIONS

EPS-RH-17-100-C-B-S

① ② ③ ④ ⑤ ⑥ ⑦

- ① 品牌名称: EPS
Brand Name E-Efficiency P-Precision S-Smart
- ② RH代表系列名: 一体化谐波模组
RH Stands For The Series Name: Integrated Harmonic Actuator
- 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
Communication C: CAN BUS
- ⑥ N: 不抱闸 B: 抱闸
N: Without Brake B: with Brake
- ⑦ S: 单编码器 D: 双编码器
S: Single encoder D: Dual encoder

例如 For example

型号 EPS-RH-20-100-C-N-S

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
 N: 不抱闸
 S: 单编码器

Model EPS-RH-20-100-C-N-S

Illustrate
 EPS: Brand Name
 RH: Hollow harmonic module
 20: Harmonic model
 100: Harmonic gear ratio 100:1
 C: Communication C: CAN BUS
 N: Without Brake
 S: Single Encoder

系列名 Series Name

EPS-RH

电机简称 Motor Simplified Name

RH-14



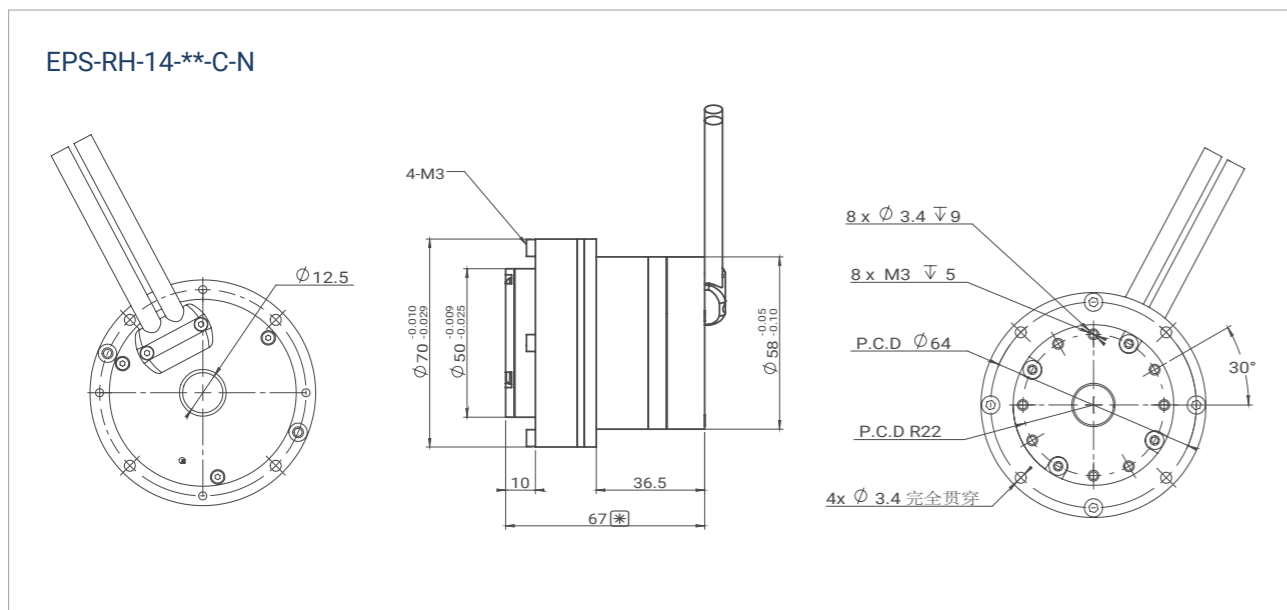
单编码器 Single Encoder + CAN BUS

离轴编码器 Off Axis Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-14-100-C-N-S	N (without brake)	Single Encoder

- * 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.
- * 2. 标准品电机没有防水功能，如需IP54请订单前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 3. 标准品电机只支持CAN BUS。The standard motor only support CAN BUS communication.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-14
减速比 Gear ratio	-	100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	0.9
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	11
额定功率 Rated Power	W	100
额定电流 Rated Current	A	6.5
峰值扭矩 Peak Torque	N.m	28
峰值电流 Peak Current	A	16.25
反电势常数 Back-EMF Constant	Vdc/Krpm	1.39
扭矩常数 Torque Constant	N.m/A	0.02
线电阻 Phase Resistance	Ω	0.9
线电感 Phase Inductance	mH	0.4
极对数 Pole Pair	-	10
接线方式 3 Phase Connection	-	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	-	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	-	CAN BUS
重量 Weight (N)	Kg	0.71
重量 Weight (B)	Kg	/
绝缘等级 Insulation grade	-	F

* 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

单编码器 Single Encoder + CAN BUS

离轴编码器 Off Axis Encoder



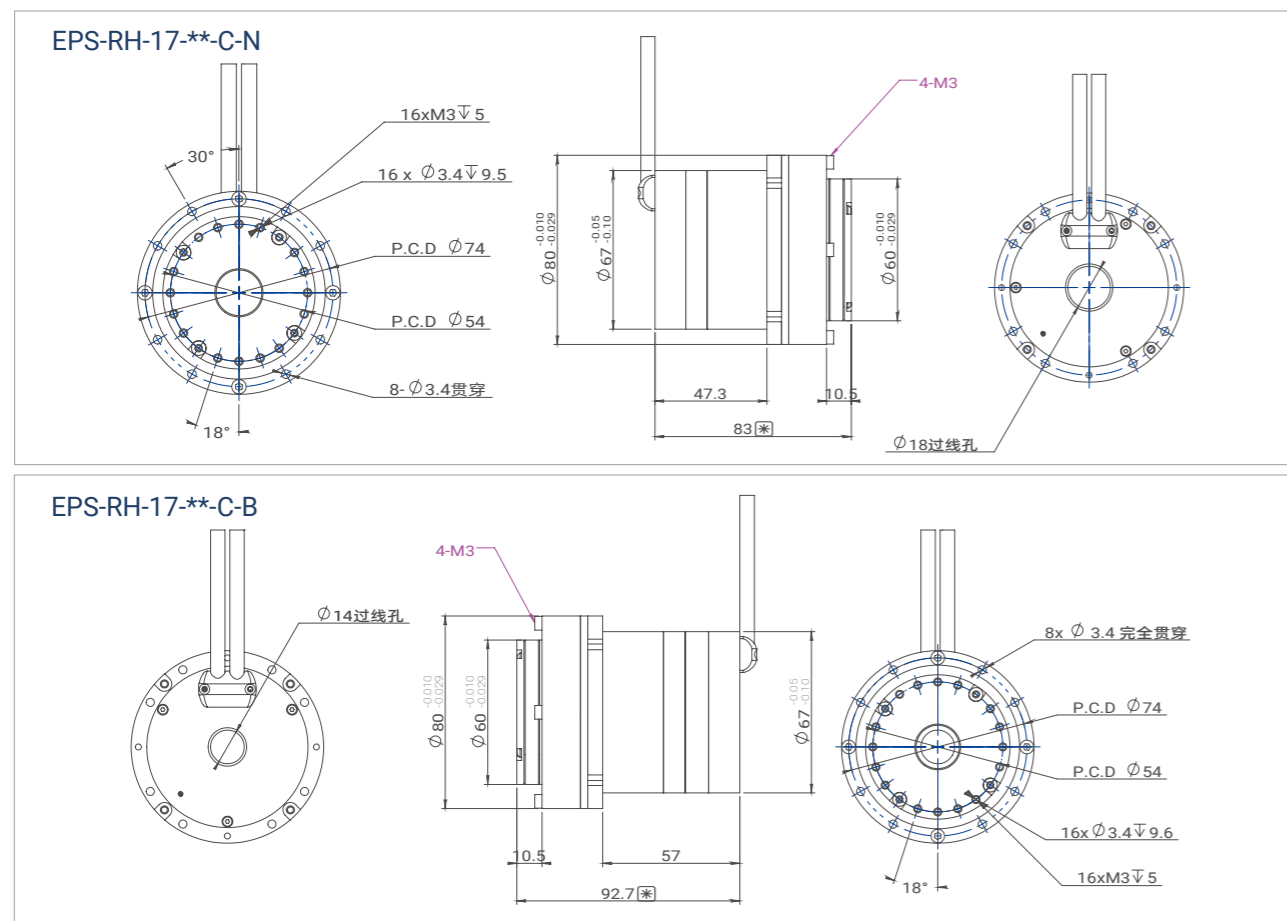
型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-17-100-C-N-S	N (without brake)	Single Encoder
EPS-RH-17-100-C-B-S	B (with brake)	Single Encoder

* 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.

* 2. 标准品电机没有防水功能，如需IP54请订单一前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.

* 3. 标准品电机只支持CAN BUS。The standard motor only support CAN BUS communication.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-17
减速比 Gear ratio	—	100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	1.45
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	35
额定功率 Rated Power	W	180
额定电流 Rated Current	A	9
峰值扭矩 Peak Torque	N.m	54
峰值电流 Peak Current	A	13.86
反电势常数 Back-EMF Constant	Vdc/Krpm	2.79
扭矩常数 Torque Constant	N.m/A	0.04
线电阻 Phase Resistance	Ω	0.77
线电感 Phase Inductance	mH	0.38
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN BUS
重量 Weight (N)	Kg	1.1
重量 Weight (B)	Kg	1.25
绝缘等级 Insulation grade	—	F

* 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-20

单编码器 Single Encoder + CAN BUS

离轴编码器 Off Axis Encoder



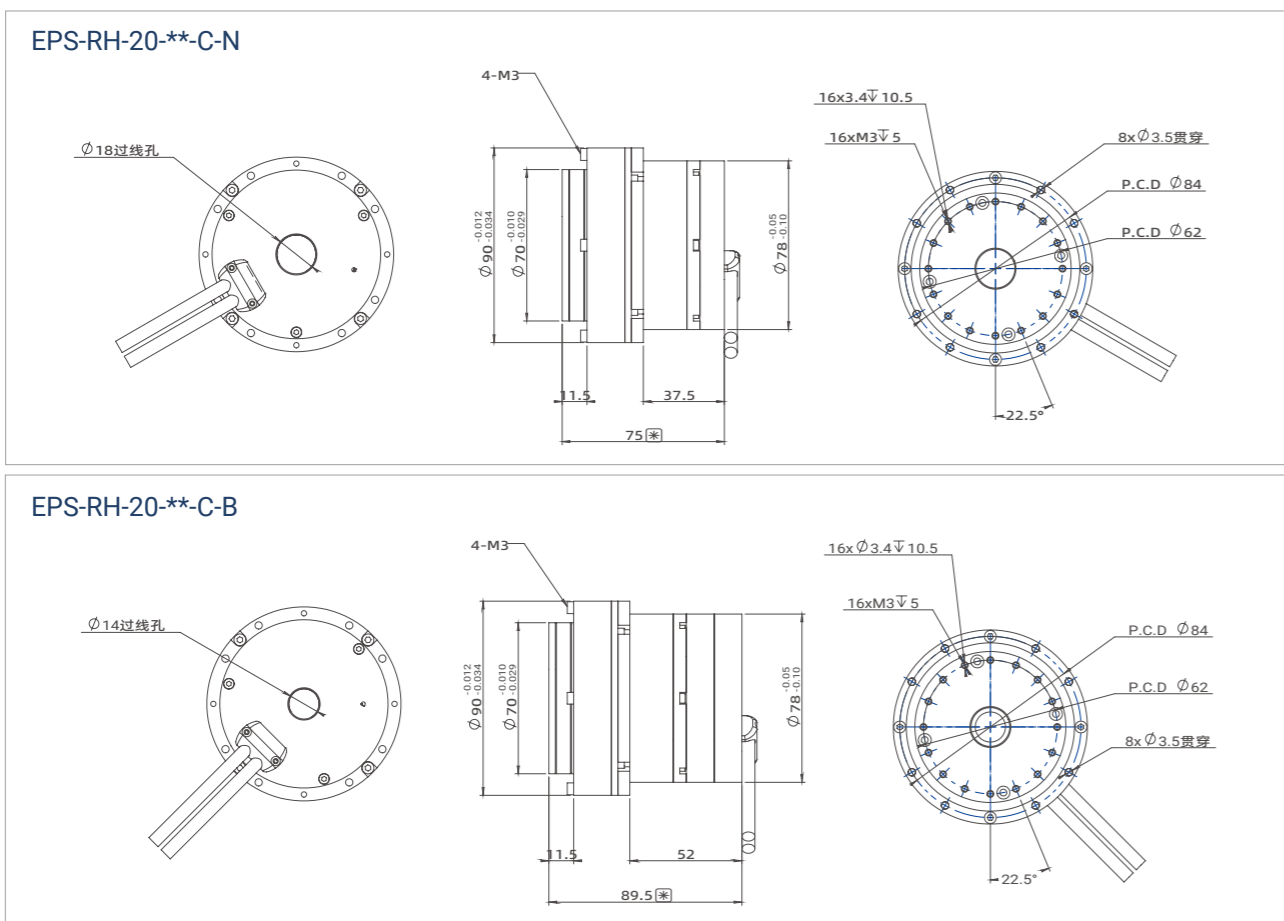
型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-20-100-C-N-S	N (without brake)	Single Encoder
EPS-RH-20-100-C-B-S	B (with brake)	Single Encoder

* 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.

* 2. 标准品电机没有防水功能，如需IP54请订单前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.

* 3. 标准品电机只支持CAN BUS。The standard motor only support CAN BUS communication.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-20
减速比 Gear ratio	—	100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	2.59
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	50
额定功率 Rated Power	W	250
额定电流 Rated Current	A	13
峰值扭矩 Peak Torque	N.m	80
峰值电流 Peak Current	A	20.8
反电势常数 Back-EMF Constant	Vdc/Krpm	2.79
扭矩常数 Torque Constant	N.m/A	0.04
线电阻 Phase Resistance	Ω	0.38
线电感 Phase Inductance	mH	0.33
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN BUS
重量 Weight (N)	Kg	1.45
重量 Weight (B)	Kg	1.6
绝缘等级 Insulation grade	—	F

* 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-25



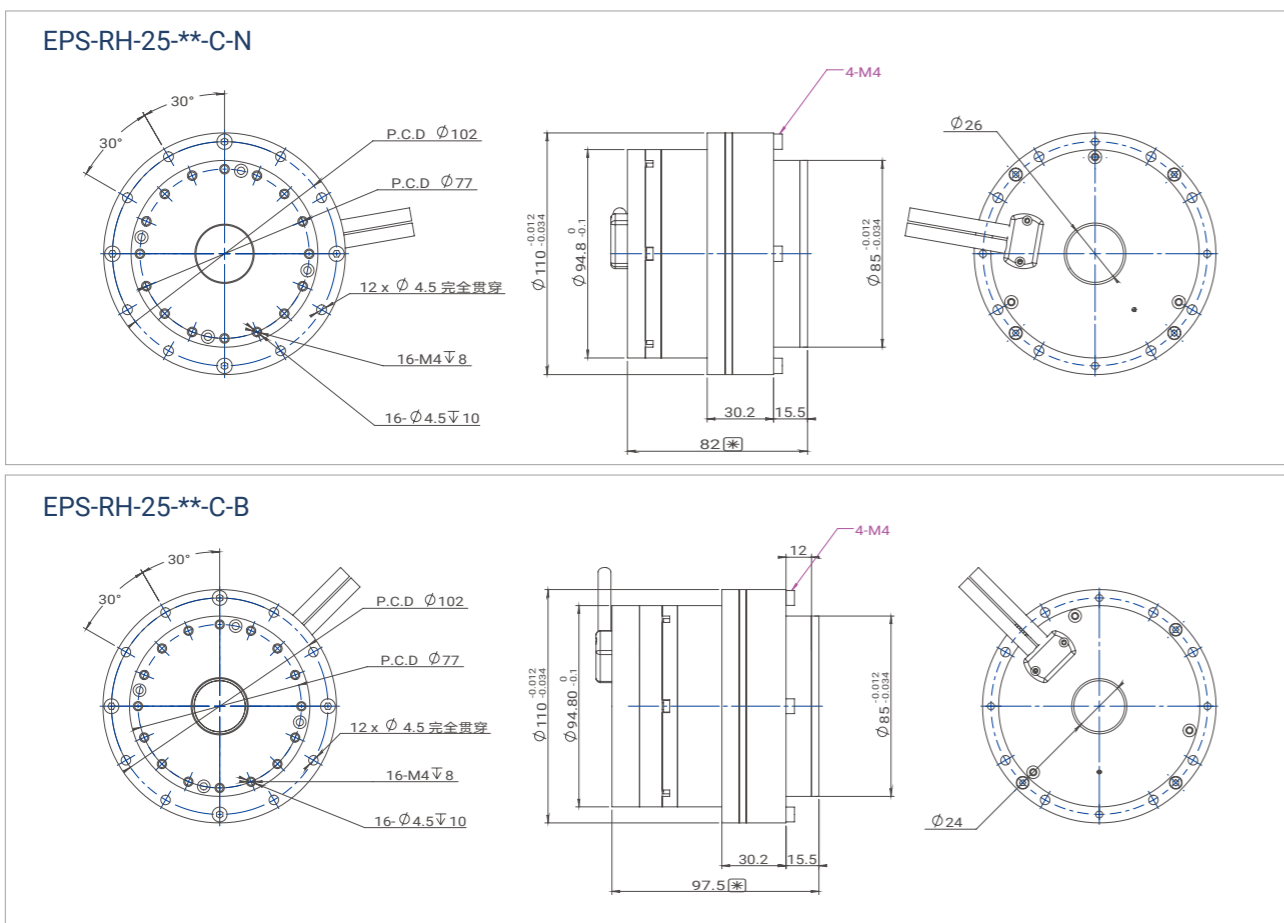
单编码器 Single Encoder + CAN BUS

离轴编码器 Off Axis Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-25-100-C-N-S	N (without brake)	Single Encoder
EPS-RH-25-100-C-B-S	B (with brake)	Single Encoder

- * 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.
- * 2. 标准品电机没有防水功能，如需IP54请订单一前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.
- * 3. 标准品电机只支持CAN BUS。The standard motor only support CAN BUS communication.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-25
减速比 Gear ratio	—	100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	30
空载电流 No Load Current	A	1.61
额定转速 Rated Speed	RPM	25
额定转矩 Rated Torque	N.m	108
额定功率 Rated Power	W	400
额定电流 Rated Current	A	16
峰值扭矩 Peak Torque	N.m	157
峰值电流 Peak Current	A	23.2
反电势常数 Back-EMF Constant	Vdc/Krpm	4.89
扭矩常数 Torque Constant	N.m/A	0.07
线电阻 Phase Resistance	Ω	0.23
线电感 Phase Inductance	mH	0.3
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN BUS
重量 Weight (N)	Kg	2.3
重量 Weight (B)	Kg	2.82
绝缘等级 Insulation grade	—	F

- * **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-32



单编码器 Single Encoder + CAN BUS

离轴编码器 Off Axis Encoder

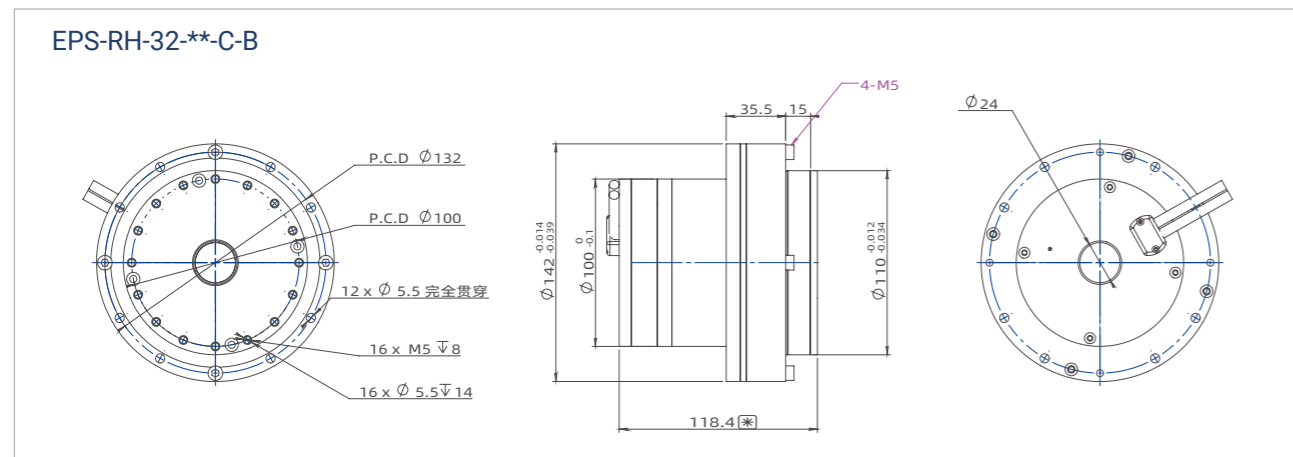
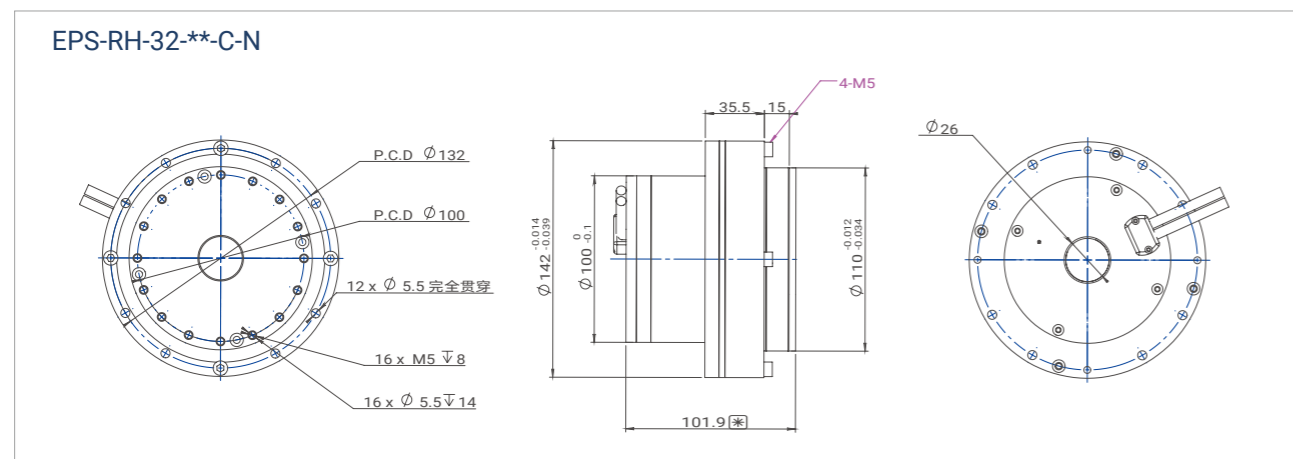
型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	编码器 Encoder
EPS-RH-32-100-C-N-S	N (without brake)	Single Encoder
EPS-RH-32-100-C-B-S	B (with brake)	Single Encoder

* 1. 标准品电机可支持抱闸或不抱闸。The standard motor can support both brake or without brake.

* 2. 标准品电机没有防水功能，如需IP54请订单一前联系销售。The standard motor no IP protection. If need IP54 please contact salesman before order.

* 3. 标准品电机只支持CAN BUS。The standard motor only support CAN BUS communication.

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-32
减速比 Gear ratio	—	100
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	20
空载电流 No Load Current	A	3.9
额定转速 Rated Speed	RPM	18
额定转矩 Rated Torque	N.m	150
额定功率 Rated Power	W	700
额定电流 Rated Current	A	20
峰值扭矩 Peak Torque	N.m	229
峰值电流 Peak Current	A	33.44
反电势常数 Back-EMF Constant	Vdc/Krpm	6.28
扭矩常数 Torque Constant	N.m/A	0.09
线电阻 Phase Resistance	Ω	0.08
线电感 Phase Inductance	mH	0.13
极对数 Pole Pair	—	10
接线方式 3 Phase Connection	—	Y
背隙 Backlash	Arcsec	< 20
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01
通信方式 Communication	—	CAN BUS
重量 Weight (N)	Kg	4.3
重量 Weight (B)	Kg	4.7
绝缘等级 Insulation grade	—	F

* 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.

一体化中空直驱模组
Integrated hollow direct drive module

RMD-H-中空系列

RMD-H-Hollow Series

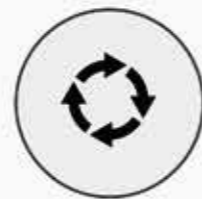
驱动集成 / 高精度 / 大空洞 / 高速
Drive integration / high precision / large hollow / high speed



懂你的心 更懂如何用心

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

11



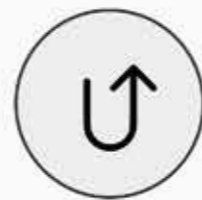
低速稳
STABLE AT LOW SPEED



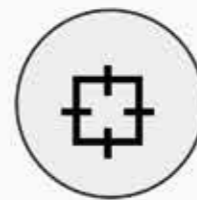
低噪音
LOW NOISE



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

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-70-15-200-C

① ② ③ ④ ⑤ ⑥

- ① 品牌名称: RMD (Reducer Motor Drive)
Brand Name R-Reducer M-Motor D-Drive
- ② H代表系列名: 一体化中空直驱模组
H Stands For The Series Name: Integrated Hollow Direct Drive Actuator
- ③ 70代表基座号 例如: 50/70/90等
70 Represent Motor Model Number e.g: 50/70/90 etc
- ④ 定子叠高 15
Stator stack height 15
- ⑤ 电机功率 200
Motor power
- ⑥ 通信方式 C: CAN BUS E: Ethercat
Communication C: CAN BUS E: Ethercat

例如 For example

型号 RMD-H-90-15-400-C

说明
RMD: 品牌名
H: 中空直驱系列
90: 基座号
15: 定子叠高
400: 电机功率
C: CAN bus 通信

Model RMD-H-90-15-400-C

Illustrate
RMD: Brand Name
H: Hollow Direct Drive Series
90: Motor Model Number
15: Stator stack height
400: Motor power
C: Communication C: CAN Bus

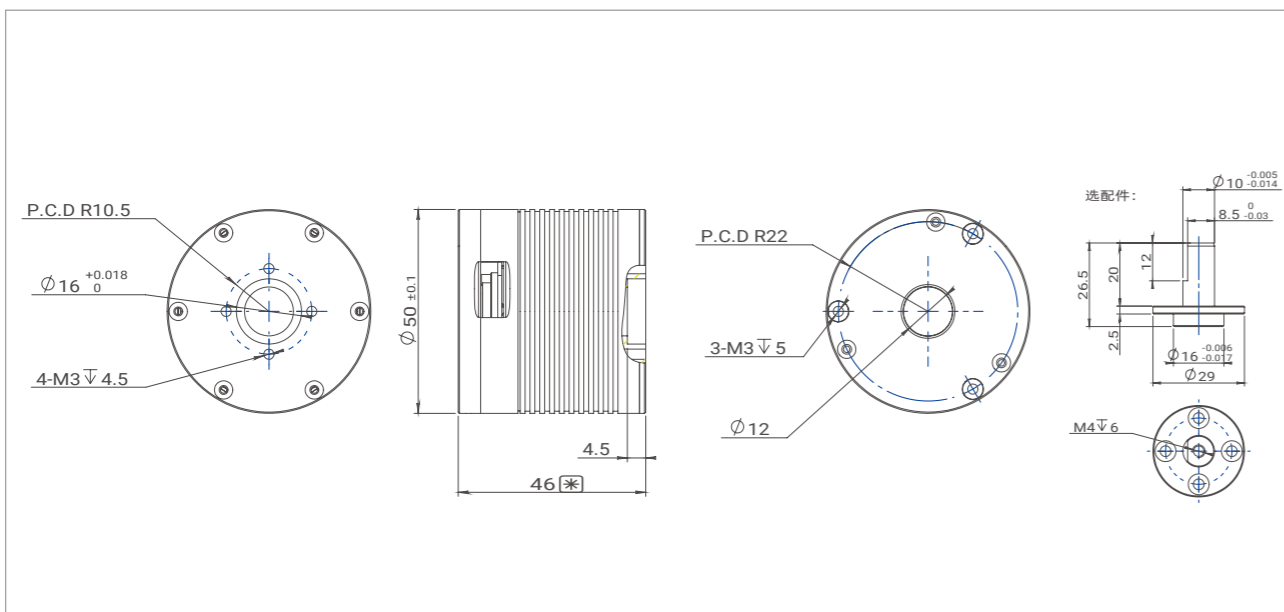
系列名 Series Name
RMD-H
 电机简称 Motor Simplified Name
H-50-15



单编码器 Single Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	通信方式 Communication
RMD-H-50-15-100-C	N (without brake)	CAN BUS

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	H-50-15
输入电压 Input Voltage	V	24
空载转速 No Load Speed	RPM	3200
空载电流 No Load Current	A	0.4
额定转速 Rated Speed	RPM	2500
额定转矩 Rated Torque	N.m	0.35
额定功率 Rated Power	W	91.6
额定电流 Rated Current	A	4.9
峰值扭矩 Peak Torque	N.m	0.9
峰值电流 Peak Current	A	12.4
效率 Efficiency	%	>83%
反电势常数 Back-EMF Constant	Vdc/Krpm	7.93
扭矩常数 Torque Constant	N.m/A	0.07
线电阻 Phase Resistance	Ω	0.4
线电感 Phase Inductance	mH	0.19
极对数 Pole Pair	—	13
齿槽转矩 Cogging Torque	mN.m	12
接线方式 3 Phase Connection	—	Y
最大轴向负载 Max Axial Payload	N	489
最大径向负载 Max Radial Payload	N	100
转动惯量 Inertia	Kg.m ²	0.005
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01 Degree
通信方式 Communication	—	CAN
重量 Weight	Kg	0.24
绝缘等级 insulation grade	—	F

系列名 Series Name
RMD-H
 电机简称 Motor Simplified Name
H-70-15



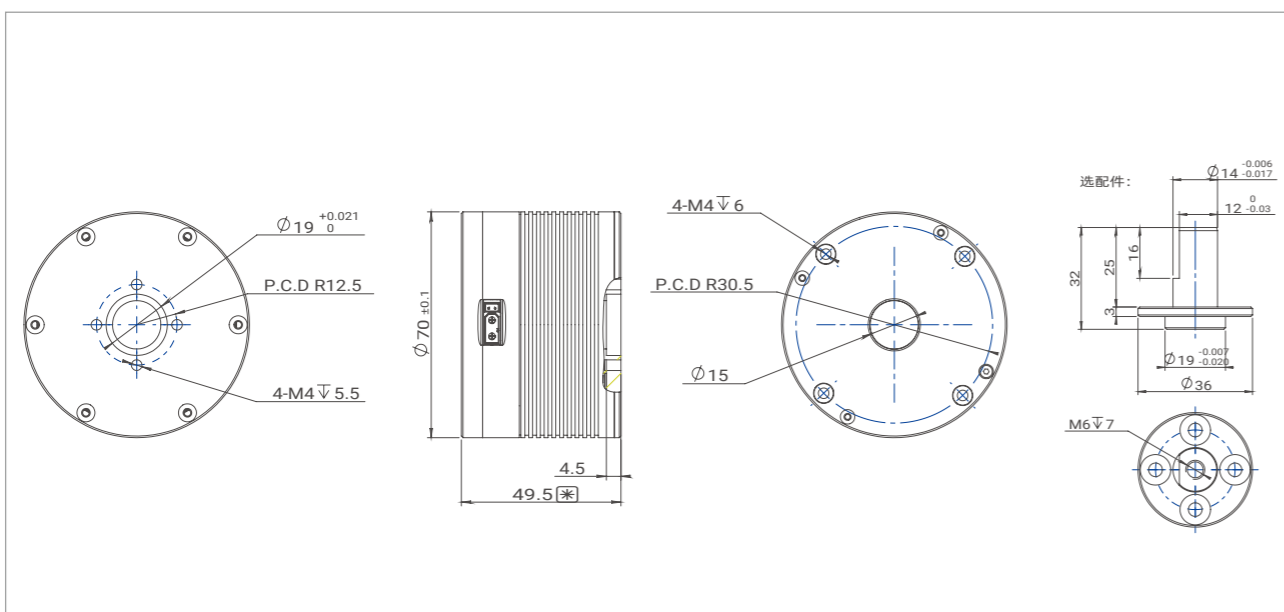
单编码器 Single Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	通信方式 Communication
RMD-H-70-15-200-C	N (without brake)	CAN BUS

产品参数 Product Parameters

参数 Parameters	单位 Unit	H-70-15
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	2800
空载电流 No Load Current	A	0.18
额定转速 Rated Speed	RPM	2400
额定转矩 Rated Torque	N.m	0.8
额定功率 Rated Power	W	200
额定电流 Rated Current	A	4.4
峰值扭矩 Peak Torque	N.m	2
峰值电流 Peak Current	A	13.2
效率 Efficiency	%	>84%
反电势常数 Back-EMF Constant	Vdc/Krpm	17
扭矩常数 Torque Constant	N.m/A	0.18
线电阻 Phase Resistance	Ω	0.5
线电感 Phase Inductance	mH	0.55
极对数 Pole Pair	—	13
齿槽转矩 Cogging Torque	mN.m	30.83
接线方式 3 Phase Connection	—	Y
最大轴向负载 Max Axial Payload	N	1870
最大径向负载 Max Radial Payload	N	440
转动惯量 Inertia	Kg.m ²	0.01
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01 Degree
通信方式 Communication	—	CAN
重量 Weight	Kg	0.47
绝缘等级 insulation grade	—	F

尺寸安装图 Installation Drawing



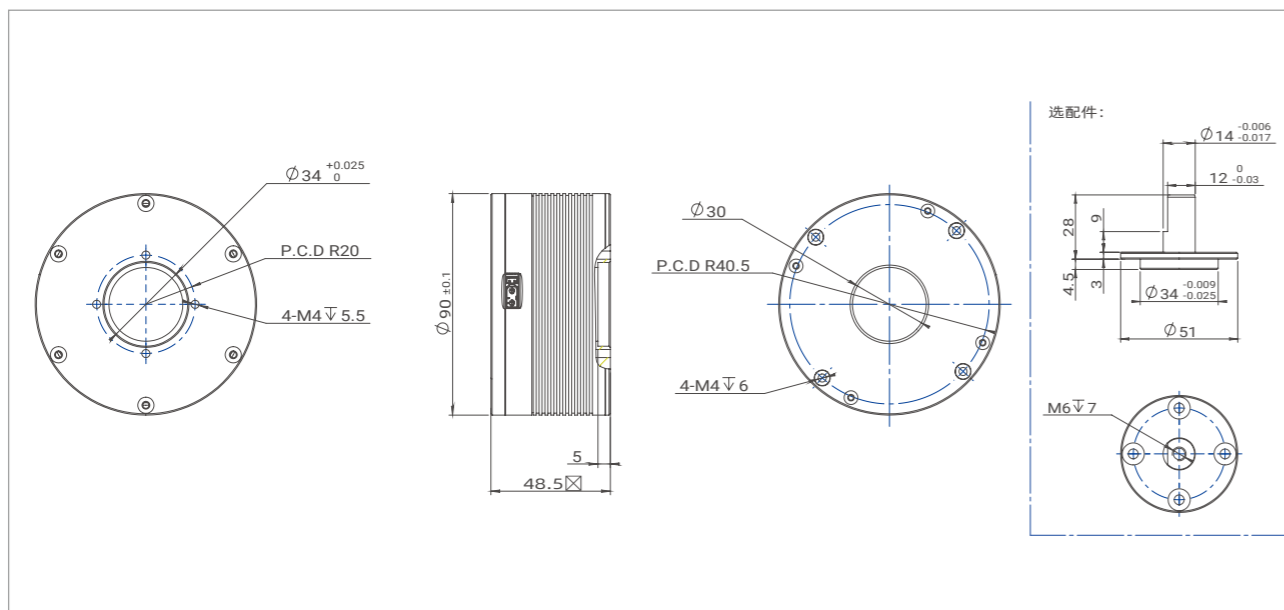
系列名 Series Name
RMD-H
电机简称 Motor Simplified Name
H-90-15



单编码器 Single Encoder

型号 Actuator Full Name	抱闸/非抱闸 With Brake/Without Brake	通信方式 Communication
RMD-H-90-15-400-C	N (without brake)	CAN BUS

尺寸安装图 Installation Drawing



产品参数 Product Parameters

参数 Parameters	单位 Unit	H-90-15
输入电压 Input Voltage	V	48
空载转速 No Load Speed	RPM	2000
空载电流 No Load Current	A	0.35
额定转速 Rated Speed	RPM	1600
额定转矩 Rated Torque	N.m	1.5
额定功率 Rated Power	W	252
额定电流 Rated Current	A	6.6
峰值扭矩 Peak Torque	N.m	3.75
峰值电流 Peak Current	A	19.8
效率 Efficiency	%	>83%
反电势常数 Back-EMF Constant	Vdc/Krpm	21.1
扭矩常数 Torque Constant	N.m/A	0.23
线电阻 Phase Resistance	Ω	0.35
线电感 Phase Inductance	mH	0.28
极对数 Pole Pair	—	16
齿槽转矩 Cogging Torque	mN.m	64
接线方式 3 Phase Connection	—	Y
最大轴向负载 Max Axial Payload	N	2350
最大径向负载 Max Radial Payload	N	770
转动惯量 Inertia	Kg.m ²	0.05
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01 Degree
通信方式 Communication	—	CAN
重量 Weight	Kg	0.71
绝缘等级 insulation grade	—	F

RMD-L-系列

RMD-L-SERIES

驱动一体 大扭矩 高转速

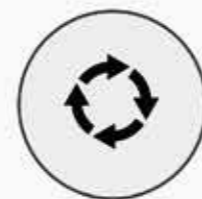
Integrated Drive With High Torque And High Speed



六大核心优势

Six core advantages

11



高顺滑度
HIGH SMOOTHNESS



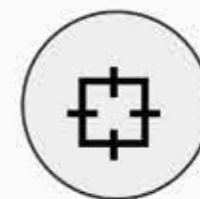
低噪音
LOW NOISE



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

RMD-L-4005-100-C



- ① 品牌名称: RMD (Reducer Motor Drive)
Brand Name R-Reducer M-Motor D-Drive
- ② L代表系列名: 一体化直驱模组
L Stands For The Series Name: Integrated Direct Drive Actuator
- 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

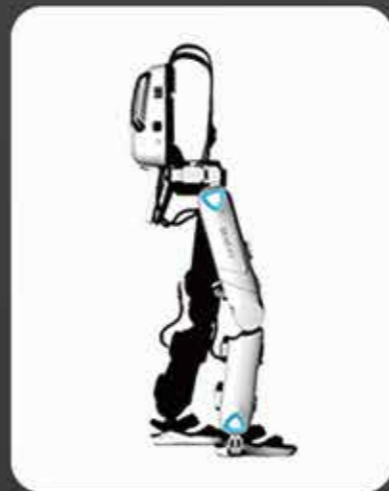
Illustrate
RMD: Brand Name
L: Direct Drive Series
5005: Motor Model Number
100: Rated Power
C: Communication C: CAN BUS



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

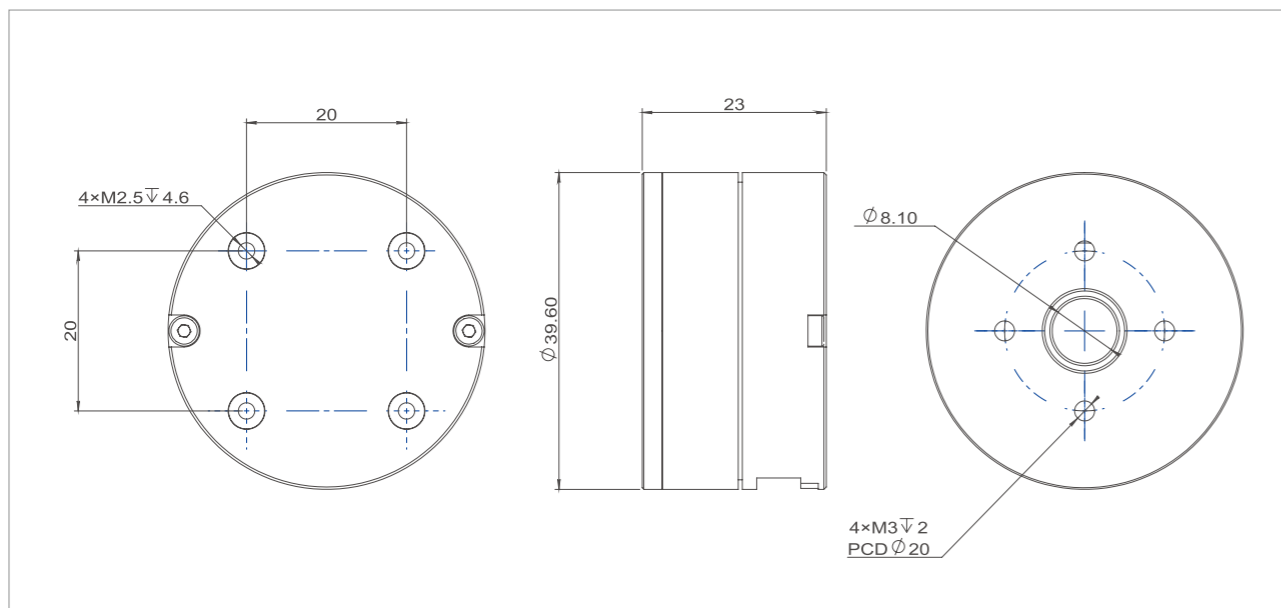
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-4005



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-4005-100-C	CAN	110102062506
RMD-L-4005-100-R	RS485	110102062505

尺寸安装图 Installation Drawing

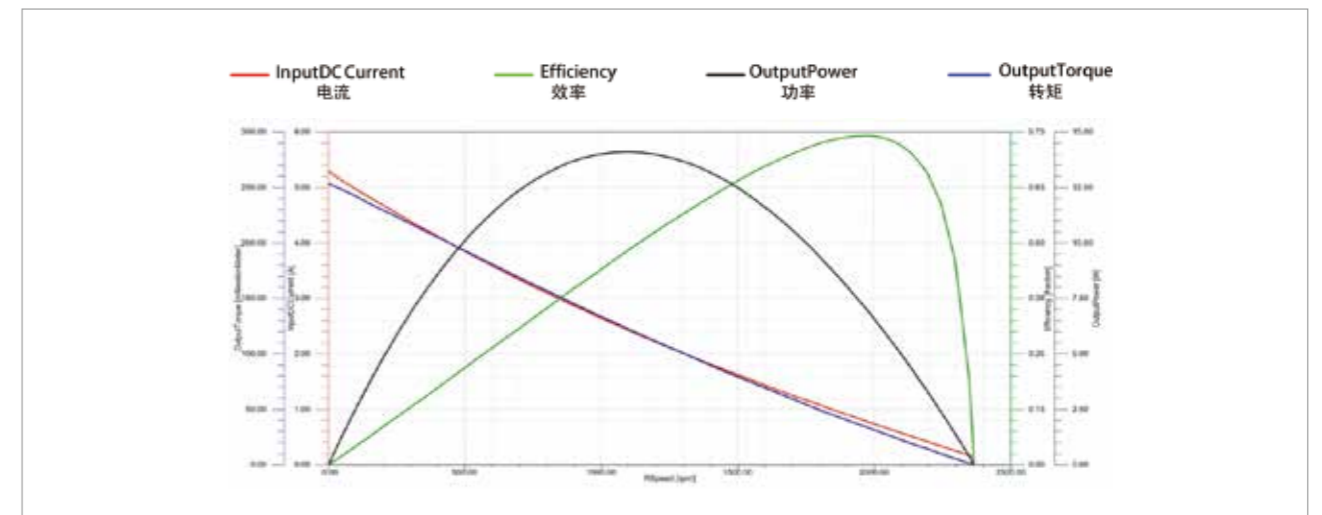


产品参数 Product Parameters

产品名称 Item Name		L-4005
额定电压 Nominal Voltage	V	24
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 ²	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 ~ 55 C)
最高退磁温度 Max Demagnetize Temperature	C	120 C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver		适配驱动器 Matched Driver
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	12~24
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

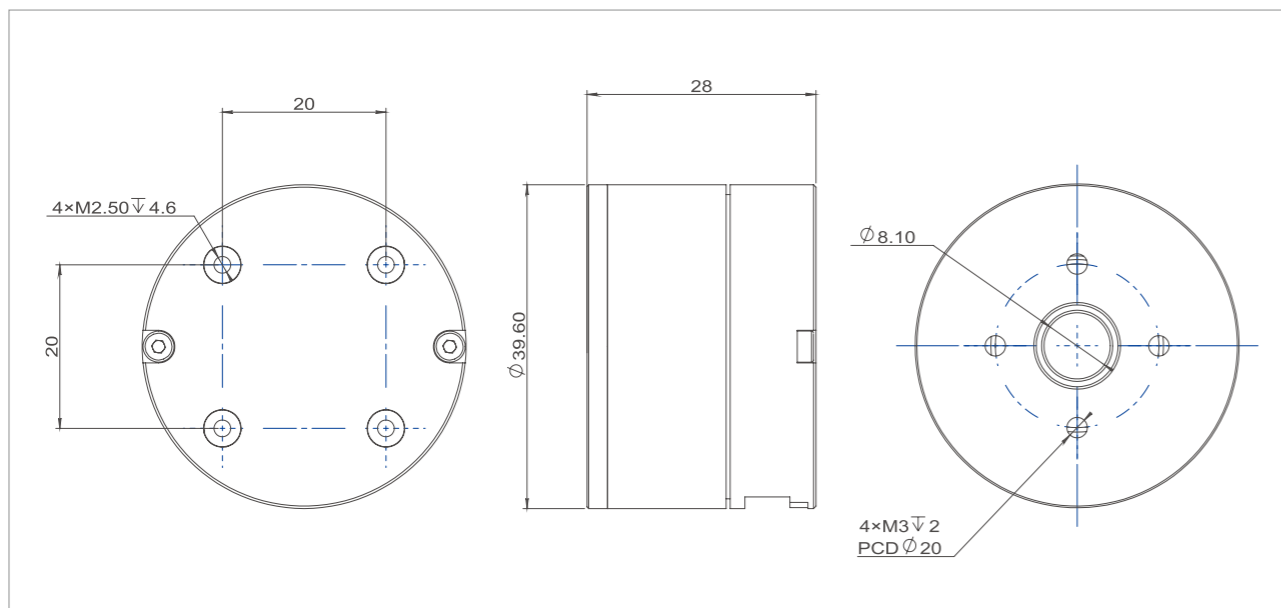
L-4010



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-4010-100-C	CAN	110102072706
RMD-L-4010-100-R	RS485	110102072705

尺寸安装图 Installation Drawing

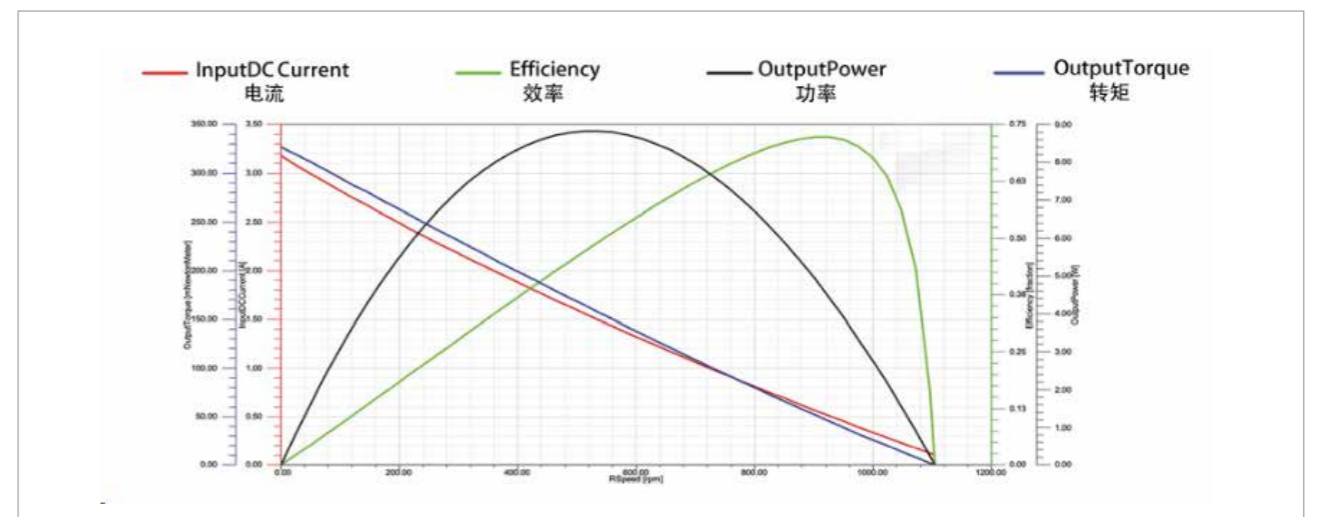


产品参数 Product Parameters

产品名称 Item Name		L-4010
额定电压 Nominal Voltage	V	24
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 ²	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	℃	(-20 ~ 55 ℃)
最高退磁温度 Max Demagnetize Temperature	℃	120 ℃
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver		适配驱动器 Matched Driver
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	12~24
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



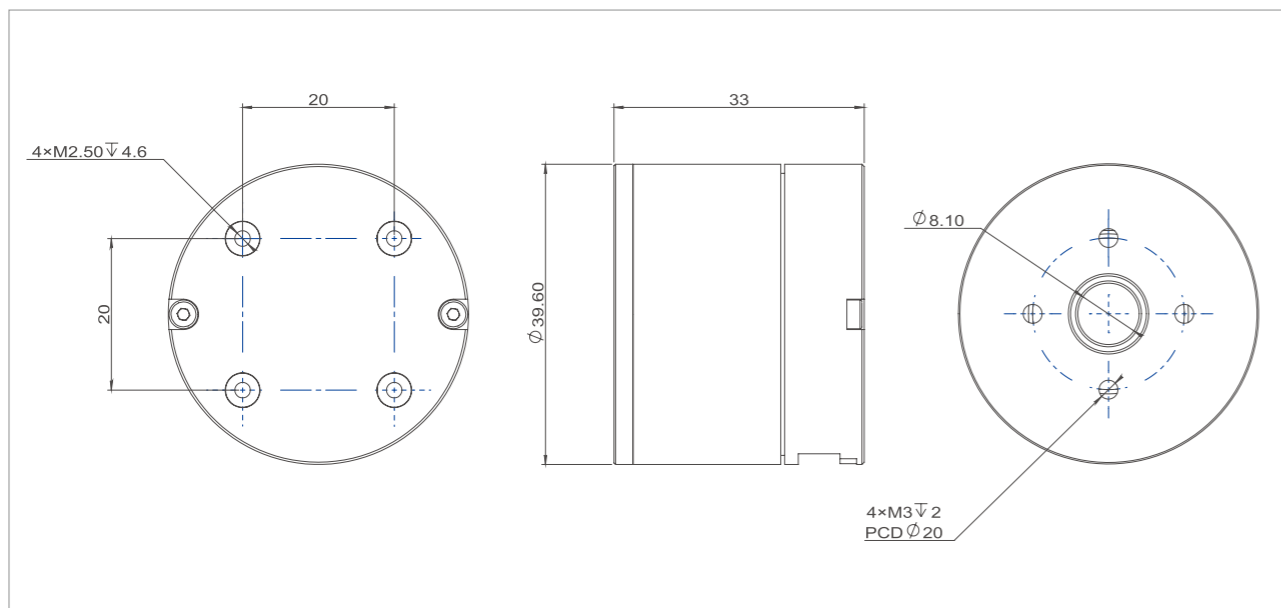
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-4015



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-4015-100-C	CAN	110102082006
RMD-L-4015-100-R	RS485	110102082005

尺寸安装图 Installation Drawing



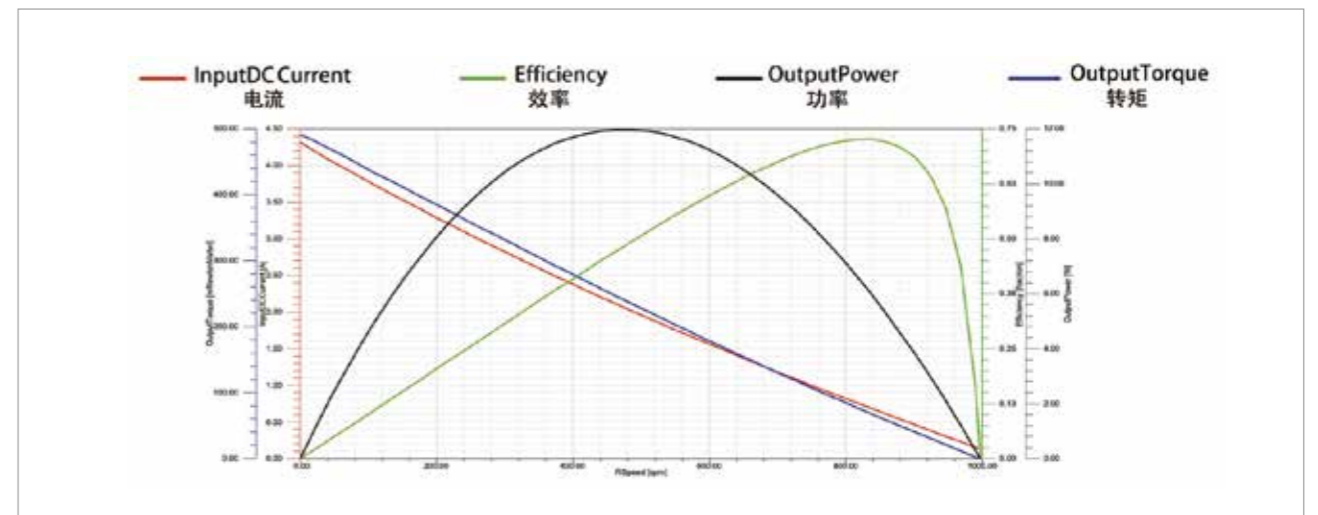
产品参数 Product Parameters

产品名称 Item Name	L-4015	
额定电压 Nominal Voltage	V	24
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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver	适配驱动器 Matched Driver	
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	12~24
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



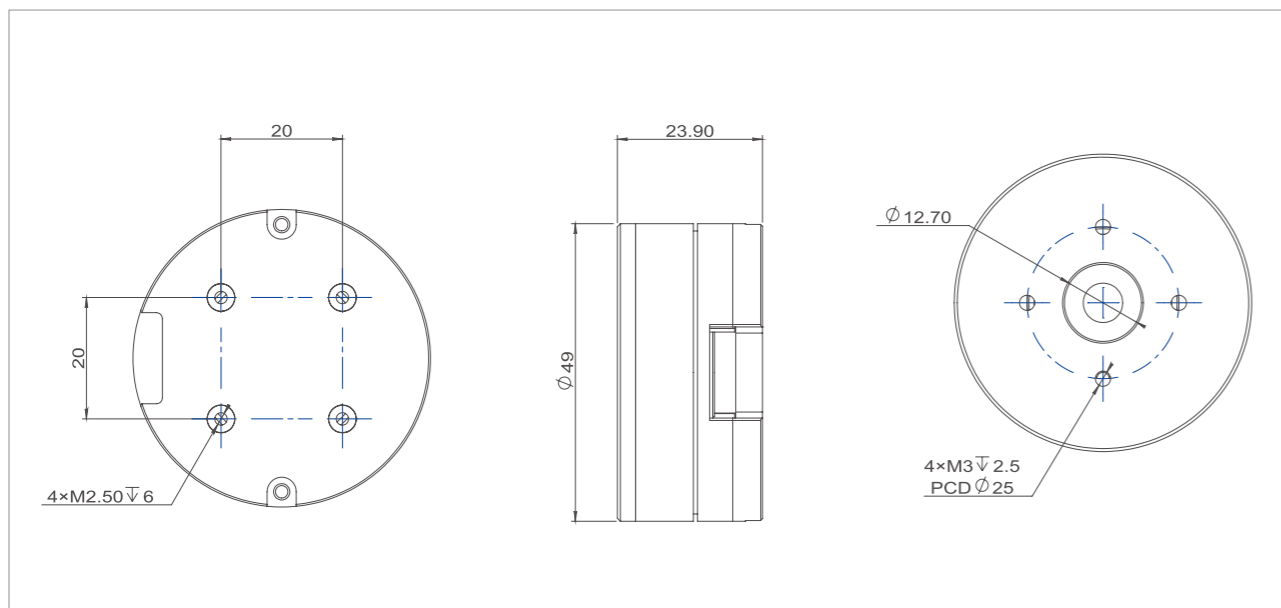
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-5005



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-5005-100-C	CAN	110103013506
RMD-L-5005-100-R	RS485	110103013505

尺寸安装图 Installation Drawing



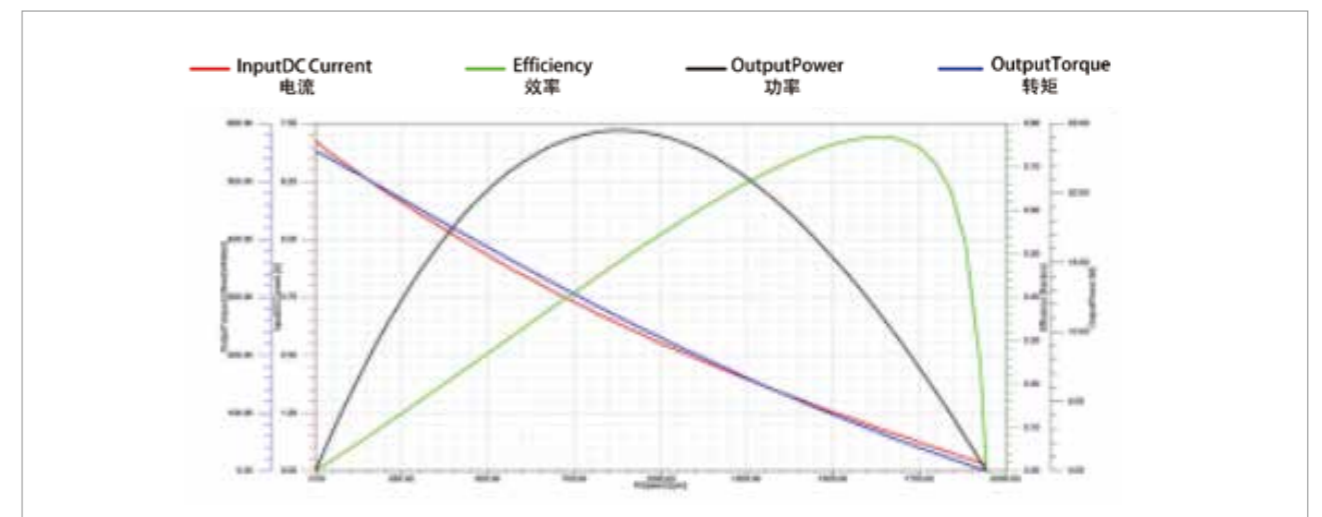
产品参数 Product Parameters

产品名称 Item Name	L-5005	
额定电压 Nominal Voltage	V	24
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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver	适配驱动器 Matched Driver	
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	12~24
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



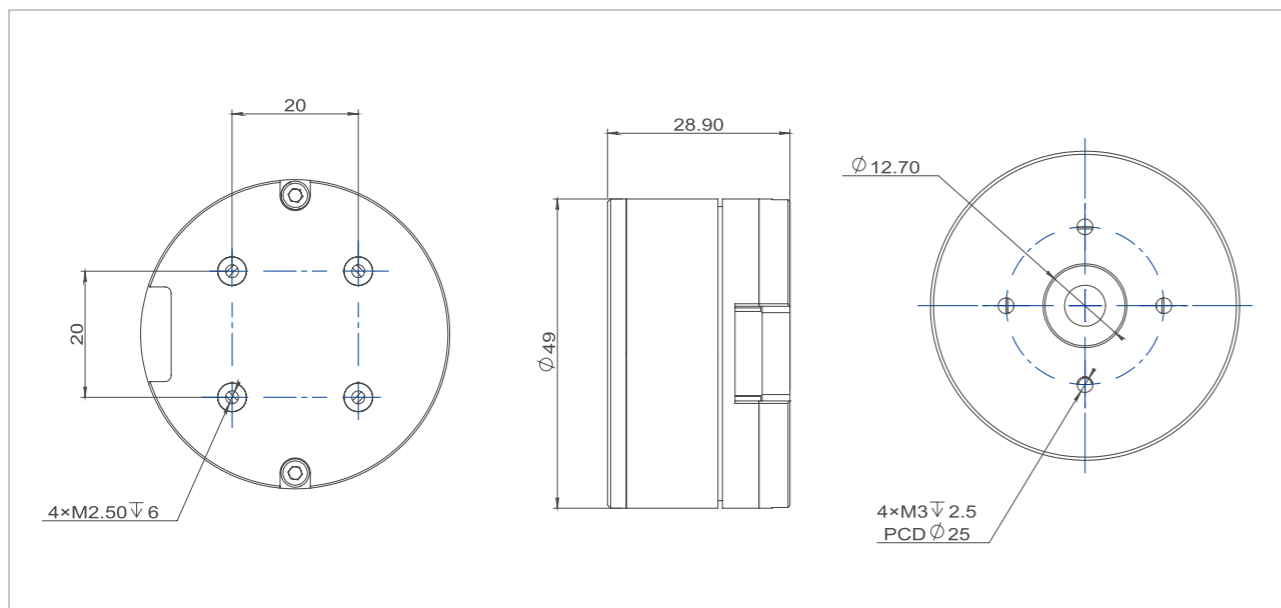
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-5010



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-5010-100-C	CAN	110103023506
RMD-L-5010-100-R	RS485	110103023505

尺寸安装图 Installation Drawing



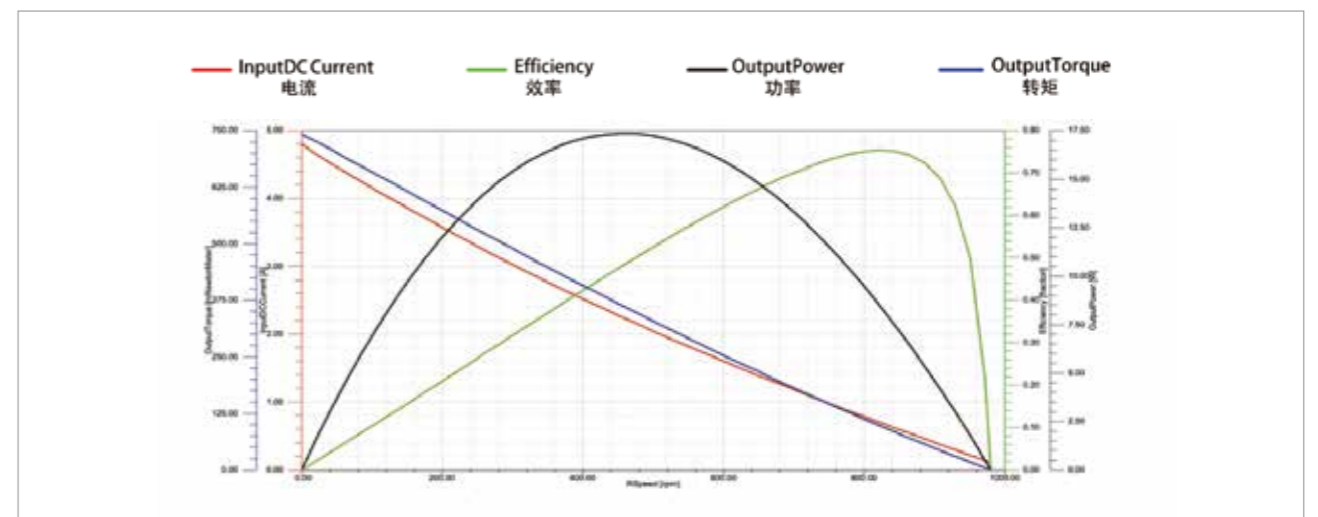
产品参数 Product Parameters

产品名称 Item Name	L-5010	
额定电压 Nominal Voltage	V	24
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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver	适配驱动器 Matched Driver	
适配驱动类型 Drive	-	MC100
驱动器输入电压范围 Input Voltage	V	12~24
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



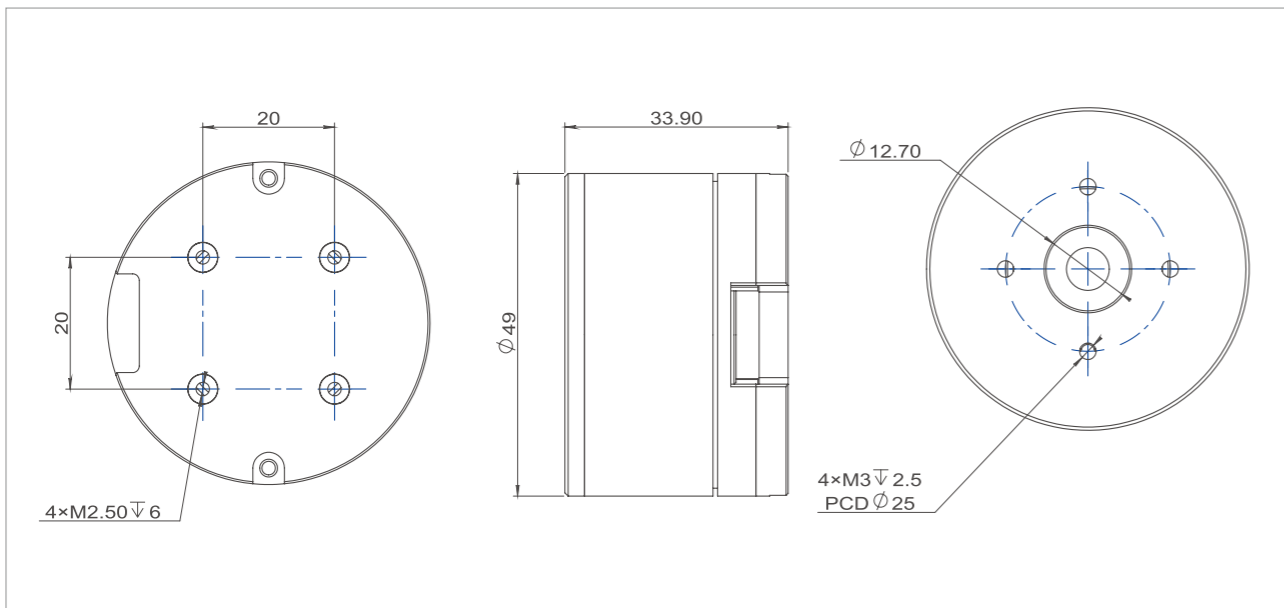
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-5015



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-5015-100-C	CAN	110103033506
RMD-L-5015-100-R	RS485	110103033505

尺寸安装图 Installation Drawing



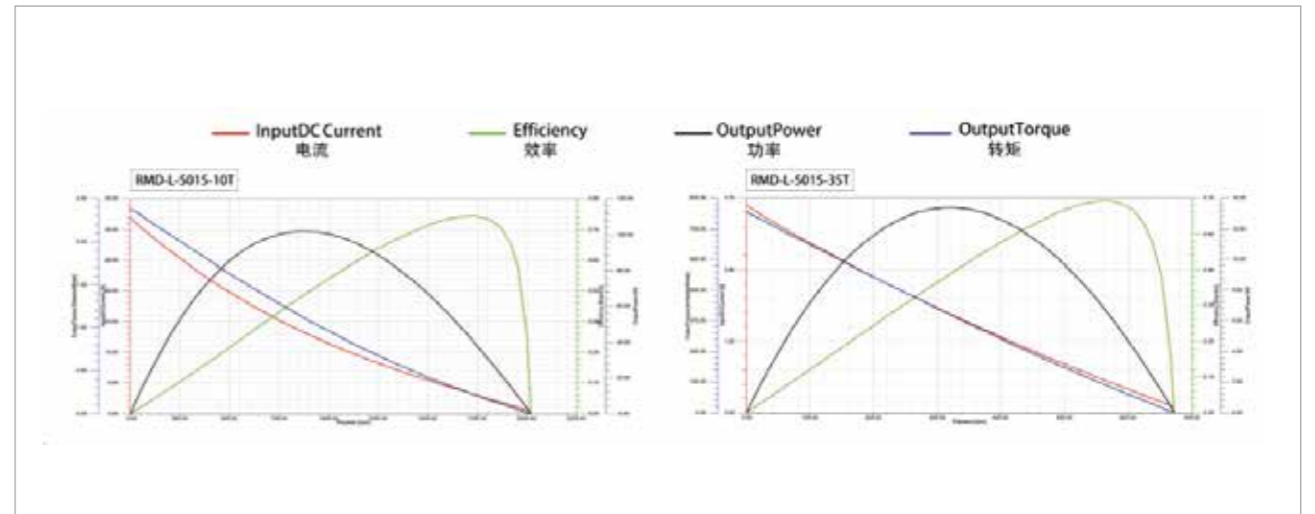
产品参数 Product Parameters

产品名称 Item Name	L-5015	
额定电压 Nominal Voltage	V	24
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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver	适配驱动器 Matched Driver
适配驱动类型 Drive	- MC100
驱动器输入电压范围 Input Voltage	V 12~24
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



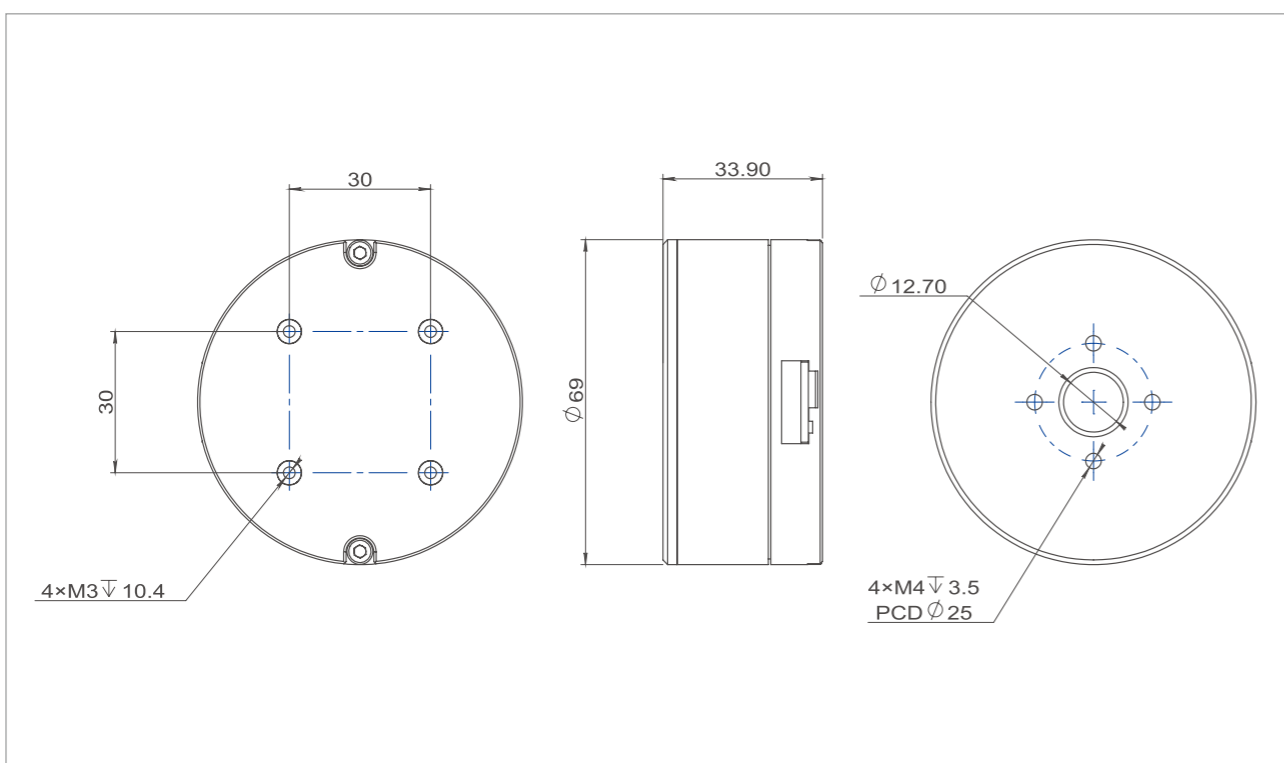
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-7015



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-7015-200-C	CAN	110104022306
RMD-L-7015-200-R	RS485	110104022305

尺寸安装图 Installation Drawing



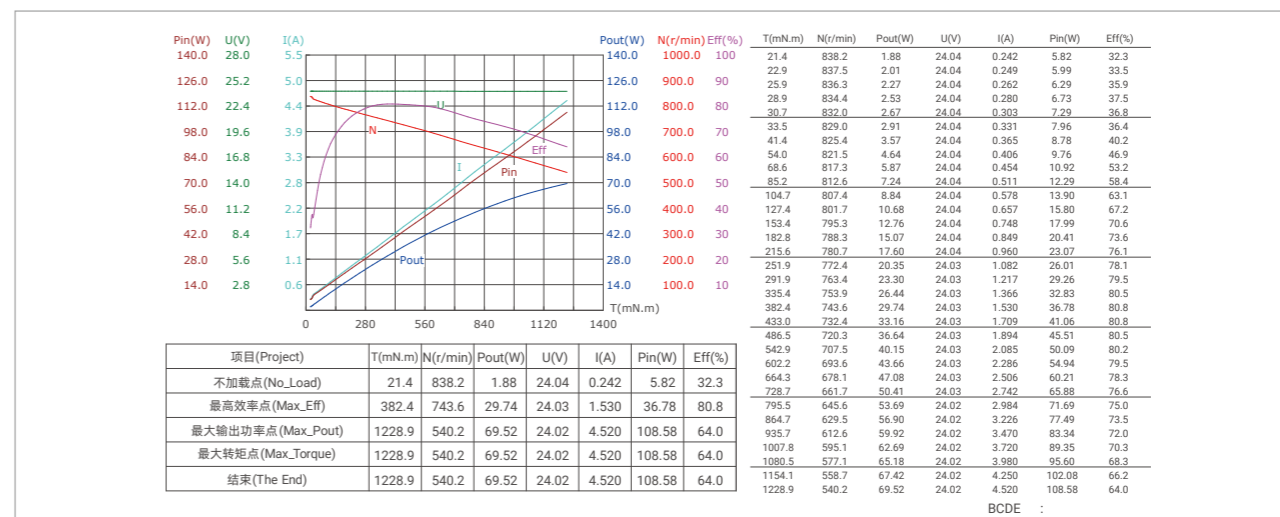
产品参数 Product Parameters

产品名称 Item Name	L-7015	
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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver	适配驱动器 Matched Driver
适配驱动类型 Drive	V MC200
驱动器输入电压范围 Input Voltage	A 12~24
驱动器电流范围 Current	W Normal:8A Instant:15A
额定功率 Normminal Power	- 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



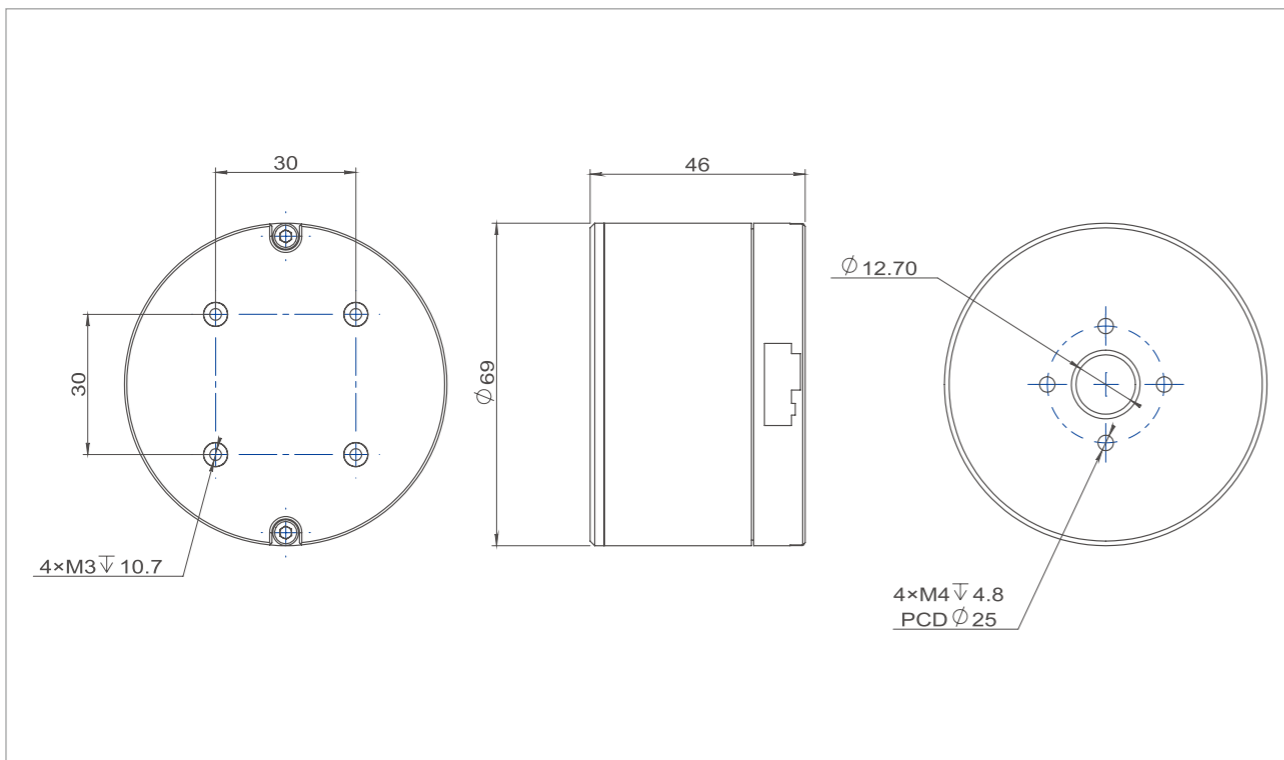
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-7025



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-7025-200-C	CAN	110104032806
RMD-L-7025-200-R	RS485	110104032805

尺寸安装图 Installation Drawing



产品参数 Product Parameters

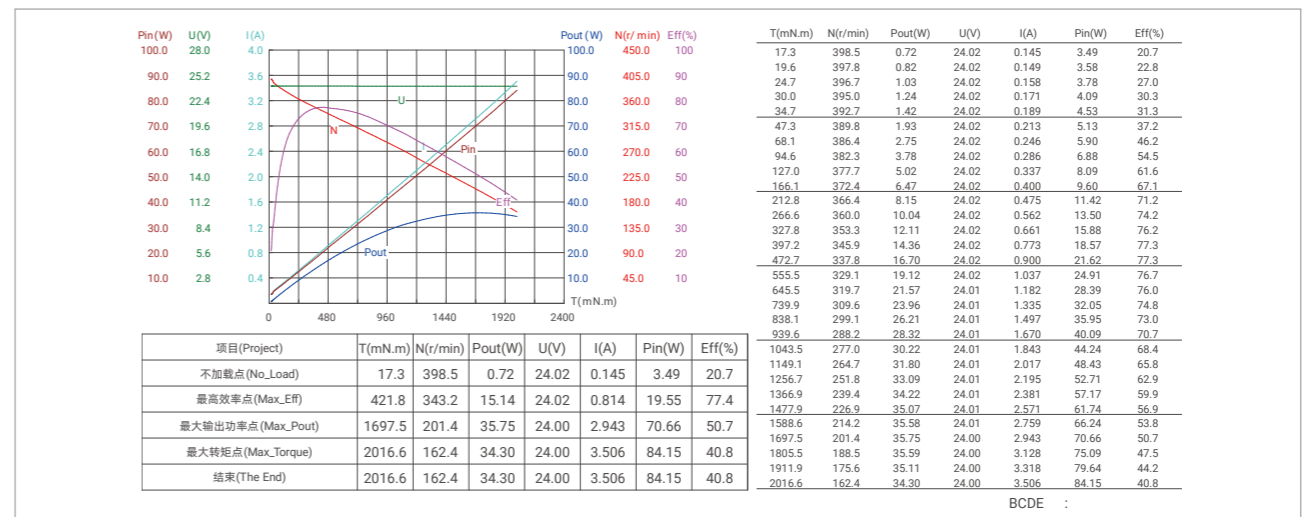
产品名称 Item Name	L-7025	
额定电压 Nominal Voltage	V	24
额定电流 Nominal Current	A	3
额定扭矩 Nominal Torque	N.M	1.6
额定转速 Nominal Speed	RPM	280
最大空载转速 Max Speed	RPM	510
最大瞬时扭矩 Max Instant Torque	N.M	4.1
最大瞬时电流 Max Instant Current	A	8.5
线电阻 Line Resistance	Ω	2.2
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	mH	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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver

适配驱动类型 Drive	-	MC200
驱动器输入电压范围 Input Voltage	V	12~24
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



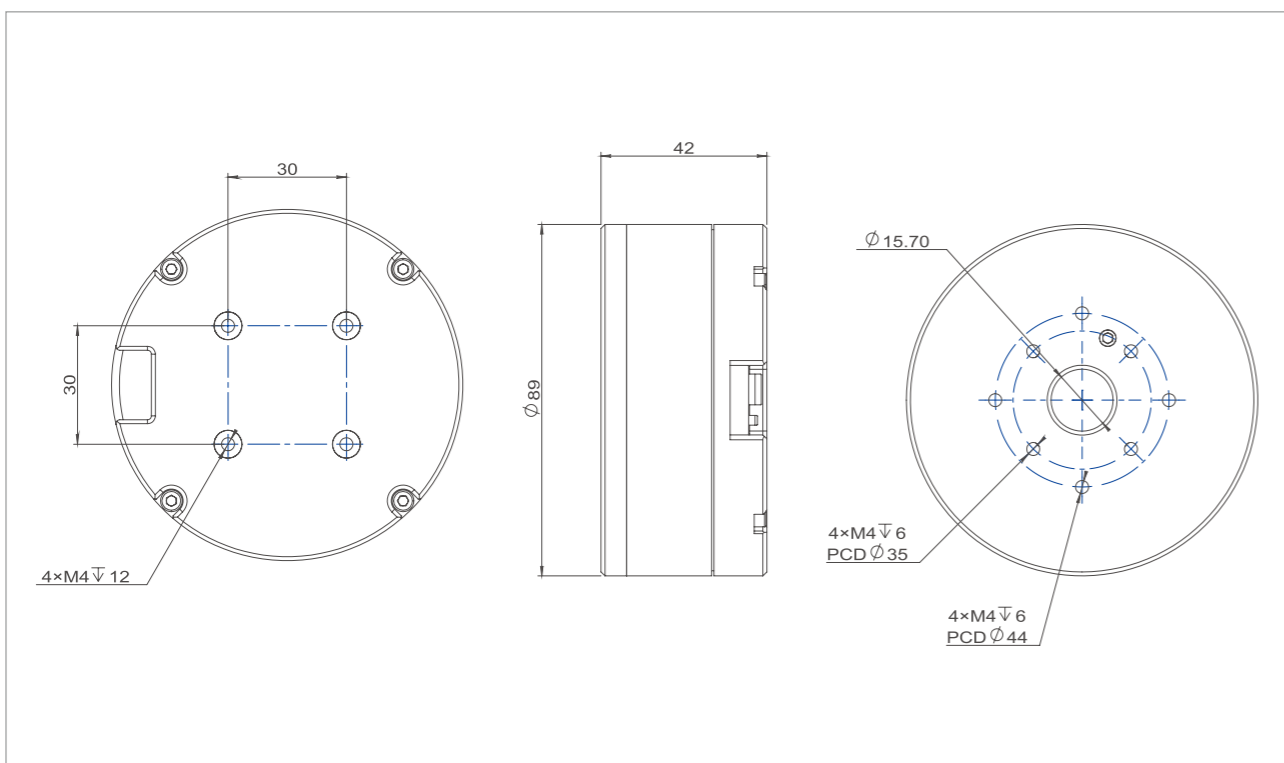
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-9015



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-9015-200-C	CAN	110105023506
RMD-L-9015-200-R	RS485	110105023505

尺寸安装图 Installation Drawing



产品参数 Product Parameters

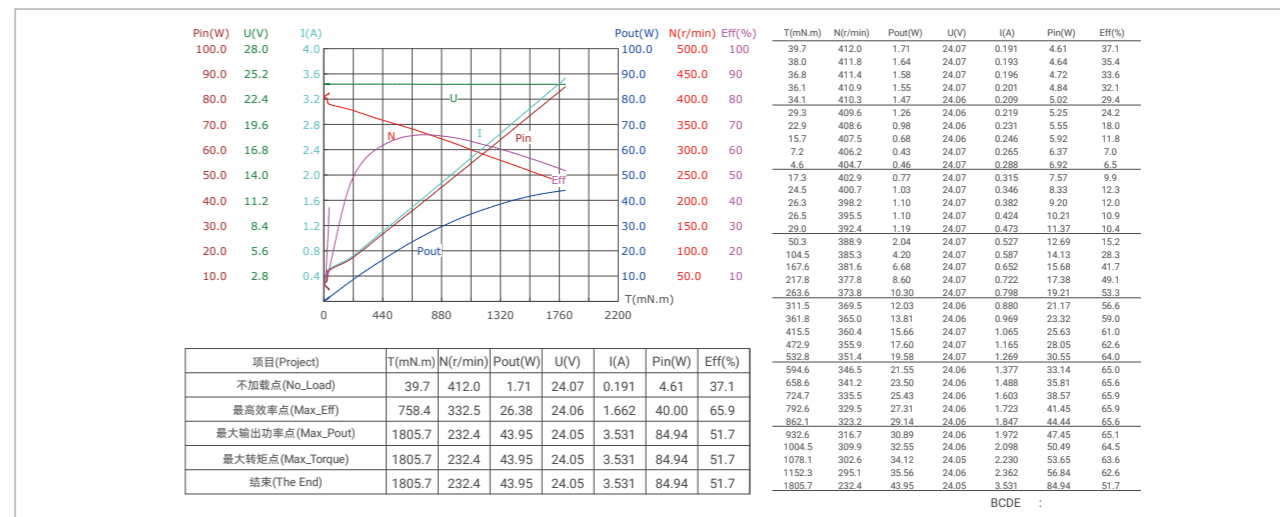
产品名称 Item Name	L-9015	
额定电压 Nominal Voltage	V	24
额定电流 Nominal Current	A	3.34
额定扭矩 Nominal Torque	N.M	1.67
额定转速 Nominal Speed	RPM	290
最大空载转速 Max Speed	RPM	500
最大瞬时扭矩 Max Instant Torque	N.M	5
最大瞬时电流 Max Instant Current	A	11
线电阻 Line Resistance	Ω	1.51
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver

适配驱动类型 Drive	-	MC200
驱动器输入电压范围 Input Voltage	V	12~24
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



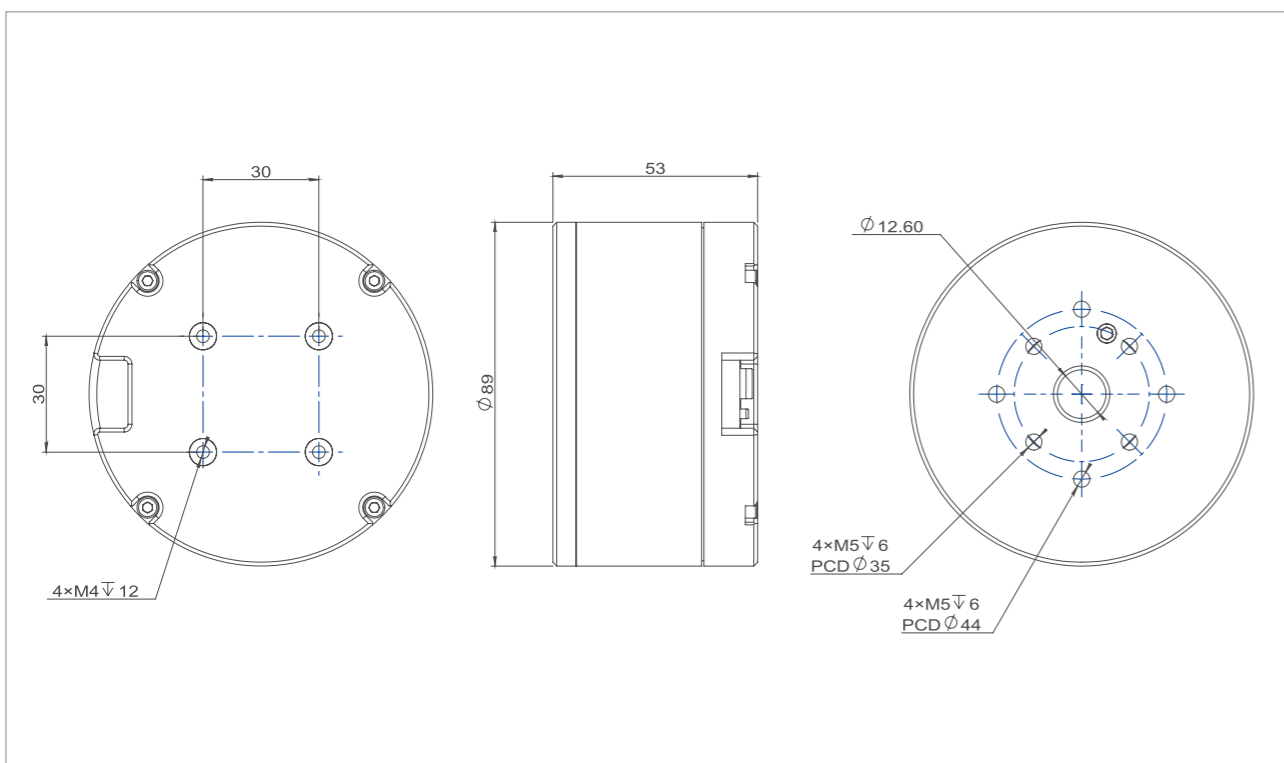
系列名 Series Name
RMD-L
电机简称 Motor Simplified Name
L-9025



单编码器 Single Encoder

型号 Actuator Full Name	通信方式 Communication	货品编码 Product Code
RMD-L-9025-200-C	CAN	110105033506
RMD-L-9025-200-R	RS485	110105033505

尺寸安装图 Installation Drawing



产品参数 Product Parameters

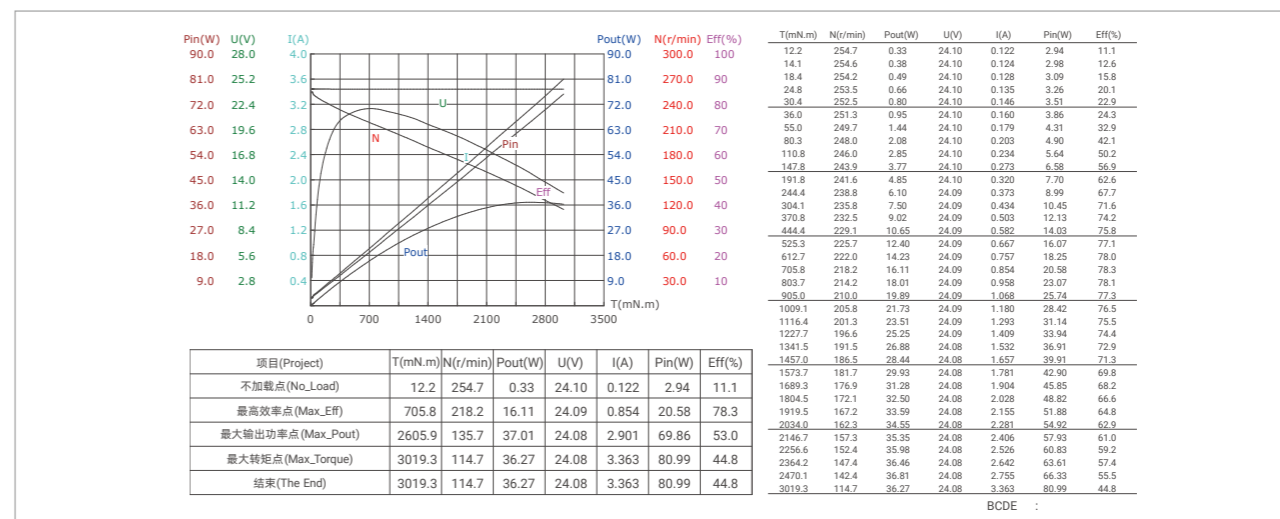
产品名称 Item Name	L-9025	
额定电压 Nominal Voltage	V	24
额定电流 Nominal Current	A	3.46
额定扭矩 Nominal Torque	N.M	2.79
额定转速 Nominal Speed	RPM	130
最大空载转速 Max Speed	RPM	280
最大瞬时扭矩 Max Instant Torque	N.M	5.8
最大瞬时电流 Max Instant Current	A	7.6
线电阻 Line Resistance	Ω	1.9
接线方式 Wire Connect	-	Y
相间电感 Phase to Phase Inductance	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 ²	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 ~ 55 °C)
最高退磁温度 Max Demagnetize Temperature	°C	120 °C
控制精度 Control Precision	°	0.001°

适配驱动器 Matched Driver

适配驱动器 Matched Driver

适配驱动类型 Drive	-	MC200
驱动器输入电压范围 Input Voltage	V	12~24
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



RMD-X 系列 Series

一体化行星模组

HIGH INTEGRATION PLANETARY ACTUATORS
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-N

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: 一体化行星减速模组, 4代表基座号 例如: X4 X6 X8 X10等
X Stands For The Series Name: Integrated Planetary Actuator, 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
Communication C: CAN BUS R: RS485
- ⑥ N: 无抱闸
N: Without 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: 无抱闸

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

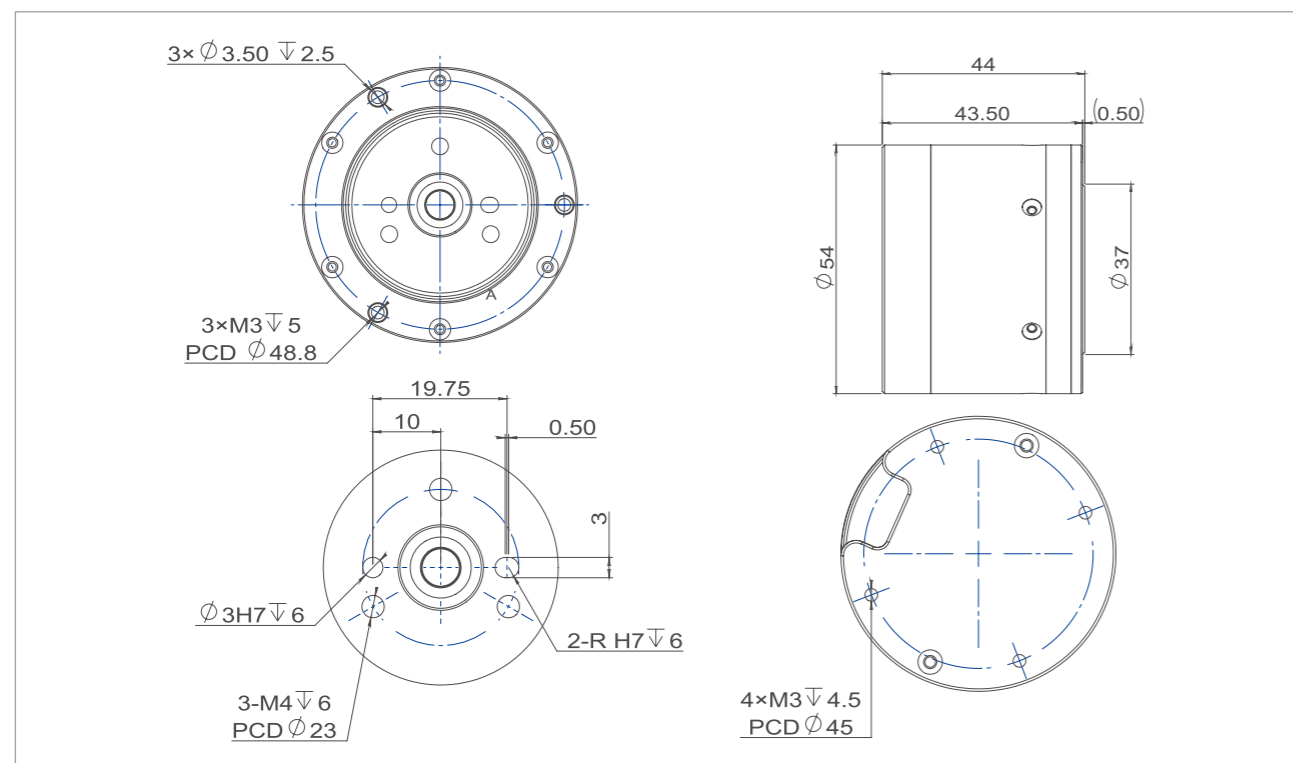


单编码器 Single Encoder

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)

- * 1. 标准品电机不支持抱闸，如需可定制抱闸。The standard motor doesn't support brake, support customization.
- * 2. 标准品电机不支防水，如需可定制IP54。The standard motor doesn't support IP54, support customization.
- * 3. 标准品电机支持CAN BUS和RS485。The standard motor support CAN BUS and RS485.

尺寸安装图 Installation Drawing

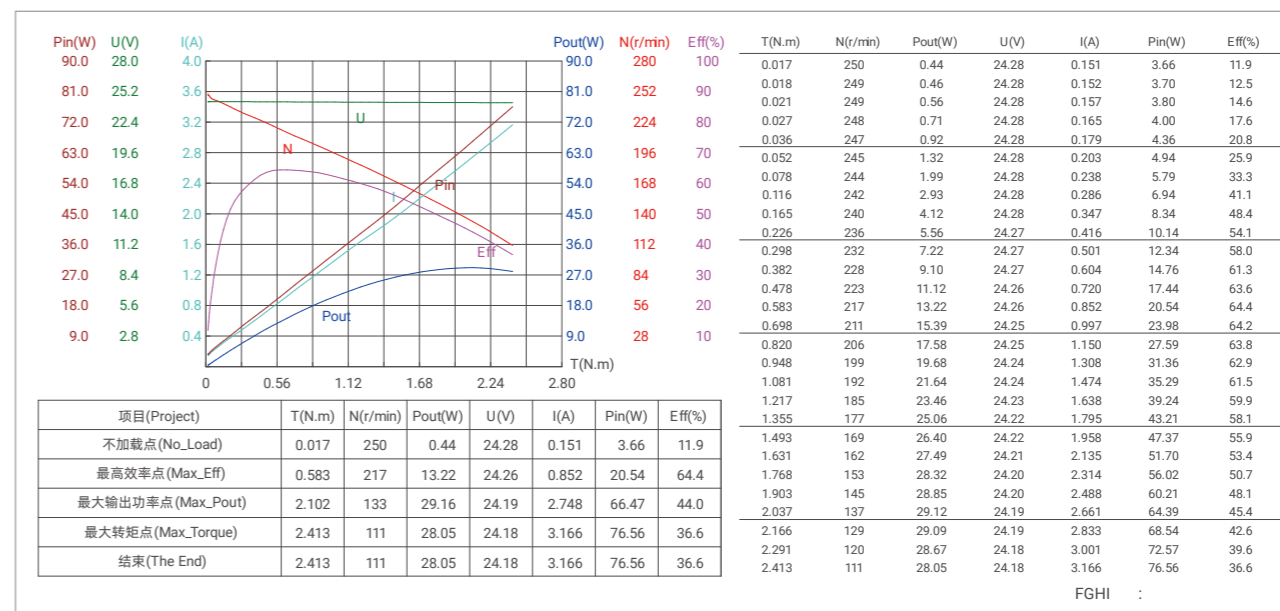


产品参数 Product Parameters

参数 Parameters	单位 Unit	X4-3
减速比 Gear ratio		6
输入电压 Input Voltage	V	24
额定转速 Rated Speed	RPM	200
额定转矩 Rated Torque	N.m	1.5
额定功率 Rated Power	W	30
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
效率 Efficiency	%	60
极对数 Pole Pair	-	14
反驱力矩 Anti-Force Torque	N.m	0.06
背隙 Backlash	Arcmin	10
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
编码器类型 Encoder Type	bit	18
通信方式 Communication	-	CAN:1M/RS485:115200/500K/1M/2.5M
重量 Weight	kg	0.3

- * **额定转矩测试方法:** 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

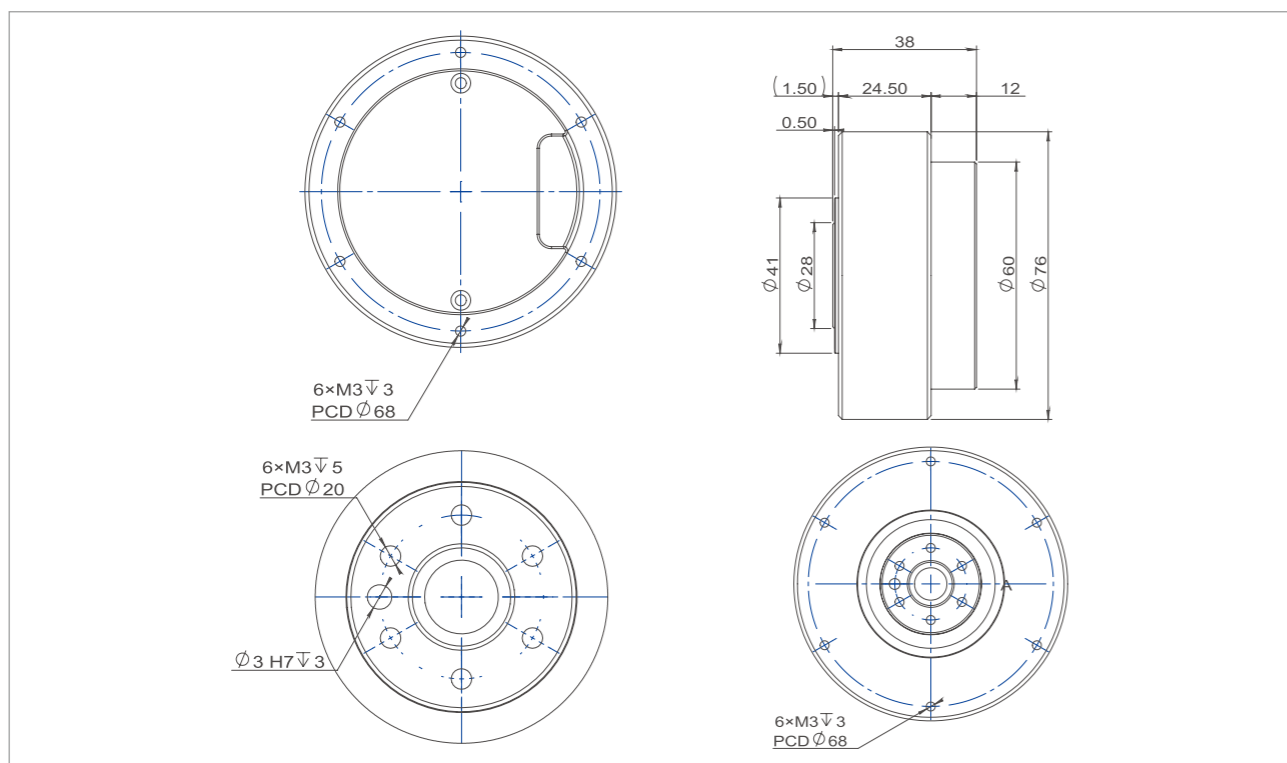


单编码器 Single Encoder

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)

- * 1. 标准品电机不支持抱闸，如需可定制抱闸。The standard motor doesn't support brake, support customization.
- * 2. 标准品电机不支防水，如需可定制IP54。The standard motor doesn't support IP54, support customization.
- * 3. 标准品电机支持CAN BUS和RS485。The standard motor support CAN BUS and RS485.

尺寸安装图 Installation Drawing



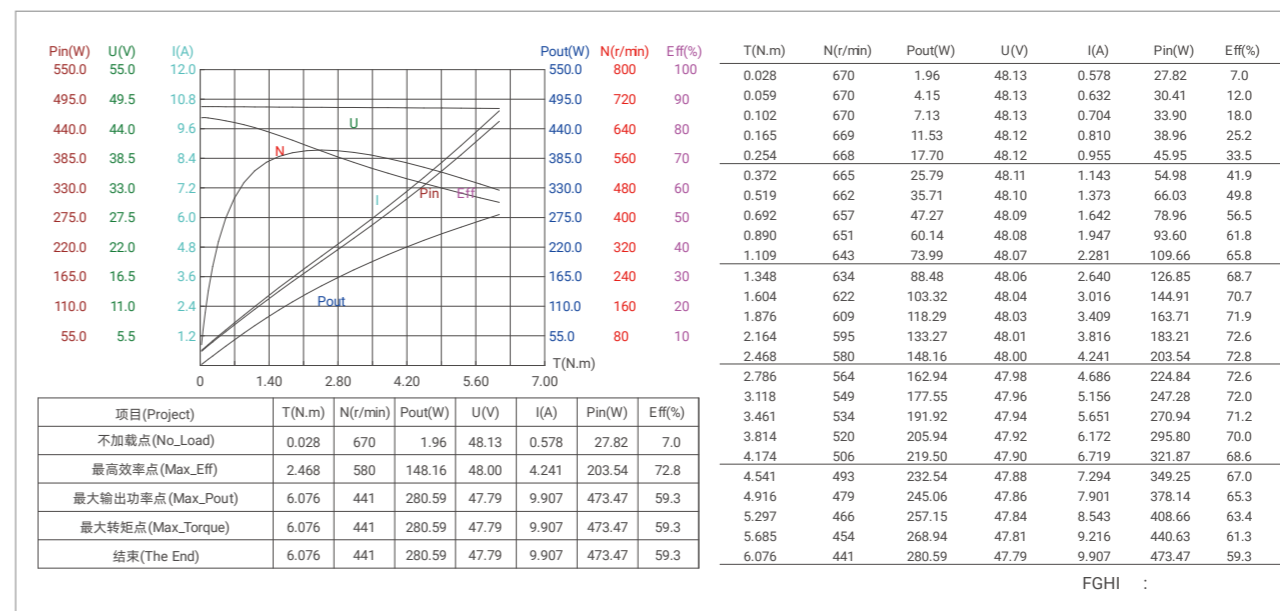
产品参数 Product Parameters

参数 Parameters	单位 Unit	X6-7
减速比 Gear ratio		6
输入电压 Input Voltage	V	48
额定转速 Rated Speed	RPM	400
额定转矩 Rated Torque	N.m	3.5
额定功率 Rated Power	W	150
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
效率 Efficiency	%	70
极对数 Pole Pair	-	14
反驱力矩 Anti-Force Torque	N.m	0.08
背隙 Backlash	Arcmin	10
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
编码器类型 Encoder Type	bit	18
通信方式 Communication	-	CAN:1M/RS485:115200/500K/1M/2.5M
重量 Weight	kg	0.35

* 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 S2 1:36 V2
电机简称 Motor Simplified Name
X6-40

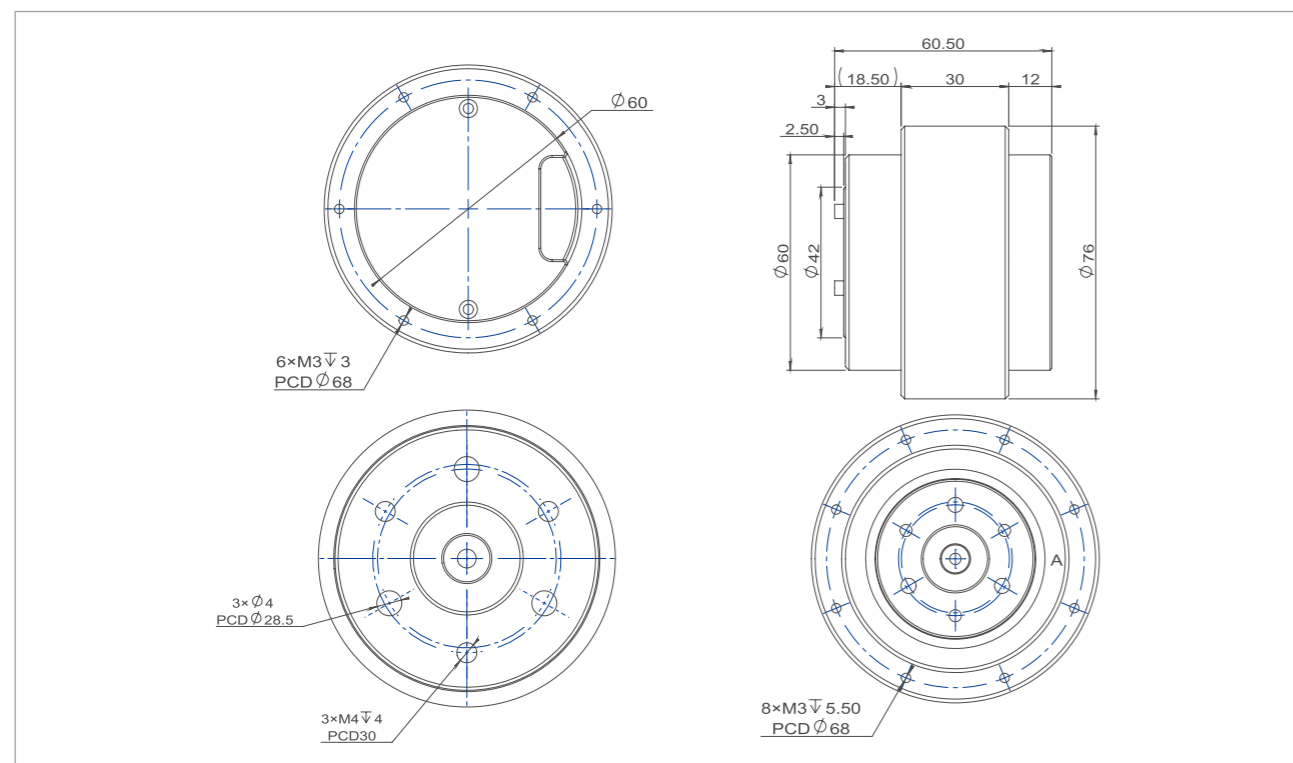


单编码器 Single Encoder

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)

- * 1. 标准品电机不支持抱闸，如需可定制抱闸。The standard motor doesn't support brake, support customization.
- * 2. 标准品电机不支防水，如需可定制IP54。The standard motor doesn't support IP54, support customization.
- * 3. 标准品电机支持CAN BUS和RS485。The standard motor support CAN BUS and RS485.

尺寸安装图 Installation Drawing



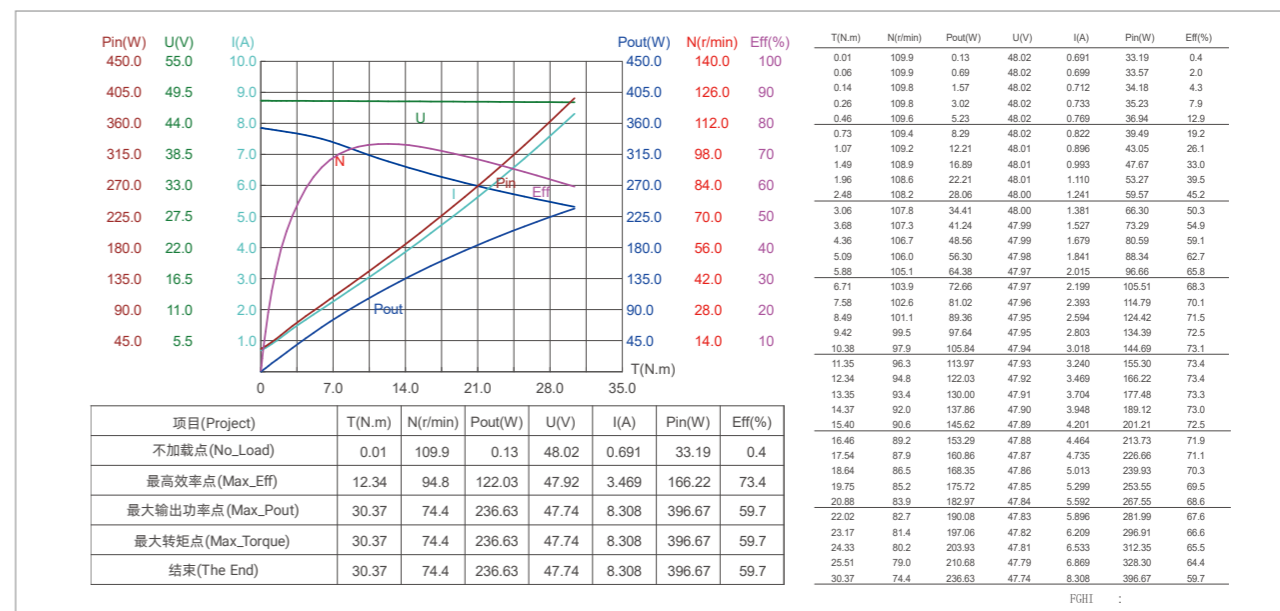
产品参数 Product Parameters

参数 Parameters	单位 Unit	X6-40
减速比 Gear ratio		36
输入电压 Input Voltage	V	48
额定转速 Rated Speed	RPM	90
额定转矩 Rated Torque	N.m	18
额定功率 Rated Power	W	170
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
效率 Efficiency	%	70
极对数 Pole Pair	-	14
反驱力矩 Anti-Force Torque	N.m	0.91
背隙 Backlash	Arcmin	15
轴向负载 Axial Payload	N	775
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm ²	28.8
编码器类型 Encoder Type	bit	18
通信方式 Communication	-	CAN:1M/RS485:115200/500K/1M/2.5M
重量 Weight	kg	0.59

* 额定转矩测试方法：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



项目(Project)	T(N.m)	N(r/min)	Pout(W)	U(V)	I(A)	Pin(W)	Eff(%)
不加负载(No_Load)	0.01	109.9	0.13	48.02	0.691	33.19	0.4
最高效率点(Max_Eff)	12.34	94.8	122.03	47.92	3.469	166.22	73.4
最大输出功率点(Max_Pout)	30.37	74.4	236.63	47.74	8.308	396.67	59.7
最大转矩点(Max_Torque)	30.37	74.4	236.63	47.74	8.308	396.67	59.7
结束(The End)	30.37	74.4	236.63	47.74	8.308	396.67	59.7

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

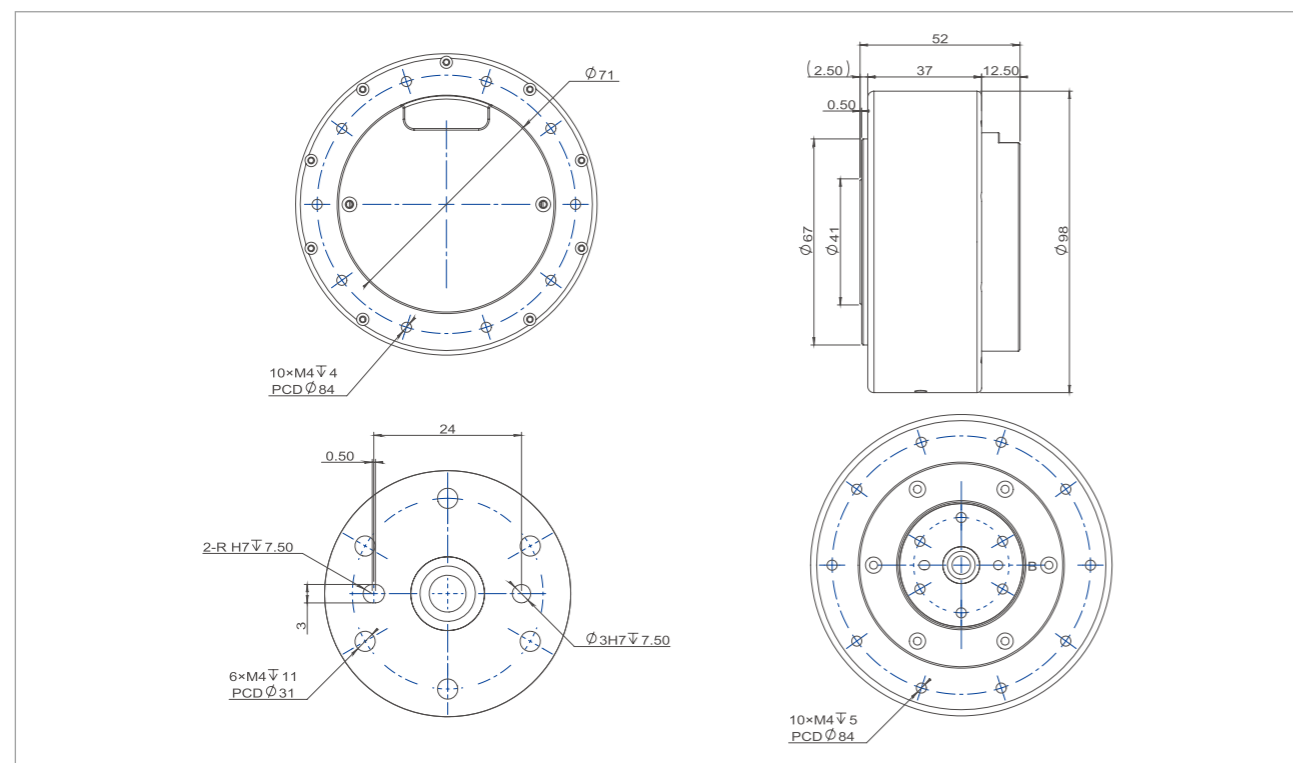


双编码器 Dual Encoder

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)

- * 1. 标准品电机不支持抱闸，如需可定制抱闸。The standard motor doesn't support brake, support customization.
- * 2. 标准品电机不支防水，如需可定制IP54。The standard motor doesn't support IP54, support customization.
- * 3. 标准品电机支持CAN BUS和RS485。The standard motor support CAN BUS and RS485.

尺寸安装图 Installation Drawing

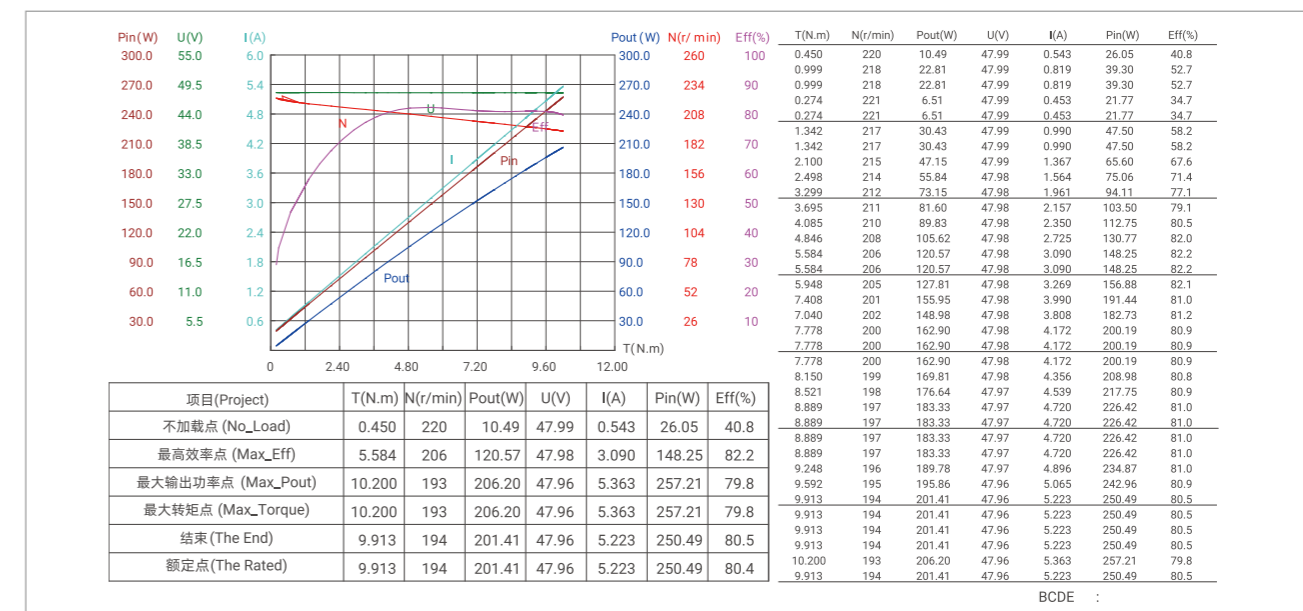


产品参数 Product Parameters

参数 Parameters	单位 Unit	X8-20
减速比 Gear ratio		6
输入电压 Input Voltage	V	48
额定转速 Rated Speed	RPM	190
额定转矩 Rated Torque	N.m	10
额定功率 Rated Power	W	200
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
效率 Efficiency	%	80
极对数 Pole Pair	-	20
反驱力矩 Anti-Force Torque	N.m	0.4
背隙 Backlash	Arcmin	10
轴向负载 Axial Payload	N	985
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm ²	20
编码器类型 Encoder Type	bit	14 / 14
通信方式 Communication	-	CAN:1M/RS485:115200/500K/1M/2.5M
重量 Weight	kg	0.78

- * 额定转矩测试方法：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

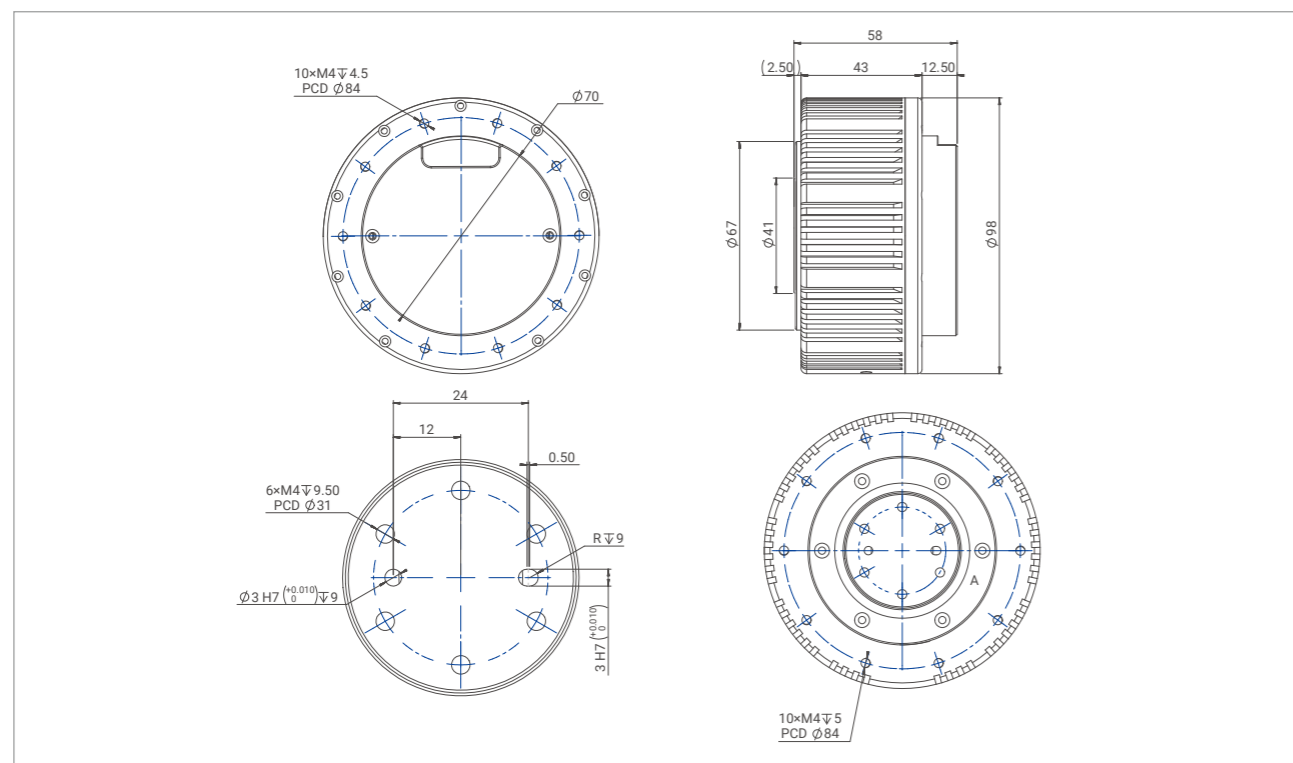


双编码器 Dual Encoder

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)

- * 1. 标准品电机不支持抱闸，如需可定制抱闸。The standard motor doesn't support brake, support customization.
- * 2. 标准品电机不支防水，如需可定制IP54。The standard motor doesn't support IP54, support customization.
- * 3. 标准品电机支持CAN BUS和RS485。The standard motor support CAN BUS and RS485.

尺寸安装图 Installation Drawing



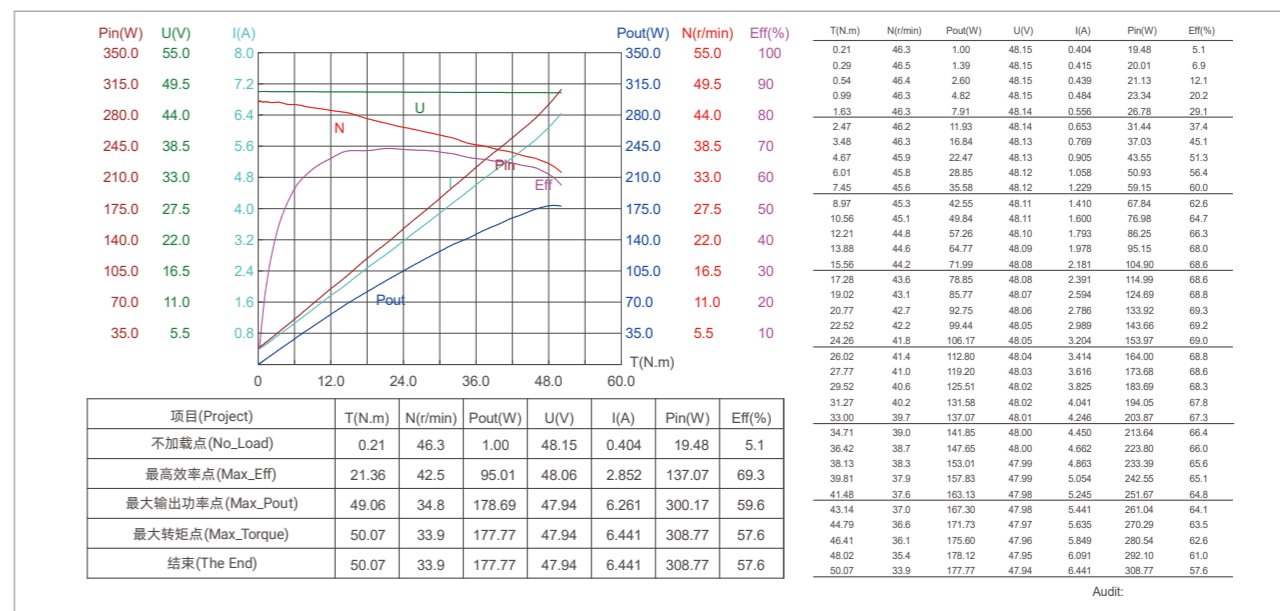
产品参数 Product Parameters

参数 Parameters	单位 Unit	X8-60
减速比 Gear ratio		36
输入电压 Input Voltage	V	48
额定转速 Rated Speed	RPM	40
额定转矩 Rated Torque	N.m	30
额定功率 Rated Power	W	130
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
效率 Efficiency	%	69
极对数 Pole Pair	-	20
反驱力矩 Anti-Force Torque	N.m	1
背隙 Backlash	Arcmin	15
轴向负载 Axial Payload	N	985
径向负载 Radial Payload	N	1250
转动惯量 Inertia	Kg.cm ²	96
编码器类型 Encoder Type	bit	14 / 14
通信方式 Communication	-	CAN:1M/RS485:115200/500K/1M/2.5M
重量 Weight	kg	0.9

* 额定转矩测试方法：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-X10 1:7 V3
电机简称 Motor Simplified Name
X10-40

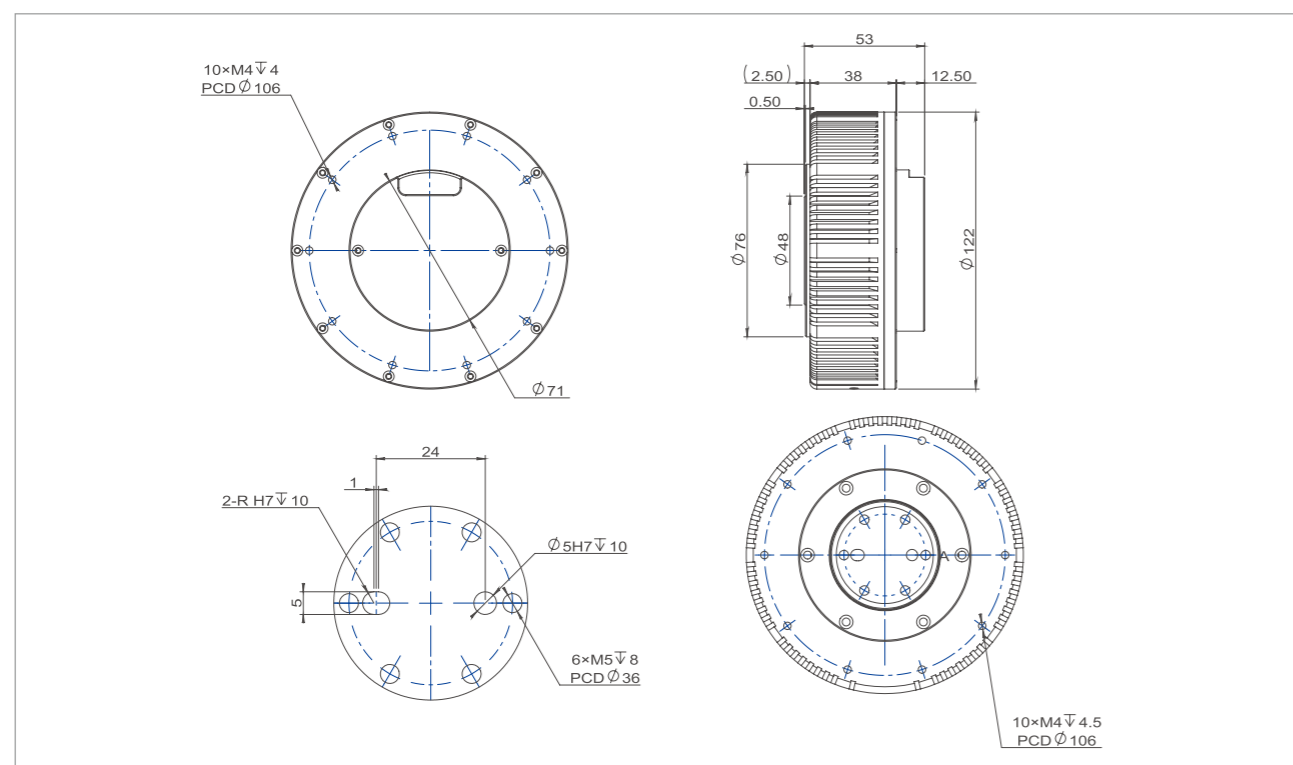


双编码器 Dual Encoder

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)

- * 1. 标准品电机不支持抱闸，如需可定制抱闸。The standard motor doesn't support brake, support customization.
- * 2. 标准品电机不支防水，如需可定制IP54。The standard motor doesn't support IP54, support customization.
- * 3. 标准品电机支持CAN BUS和RS485。The standard motor support CAN BUS and RS485.

尺寸安装图 Installation Drawing



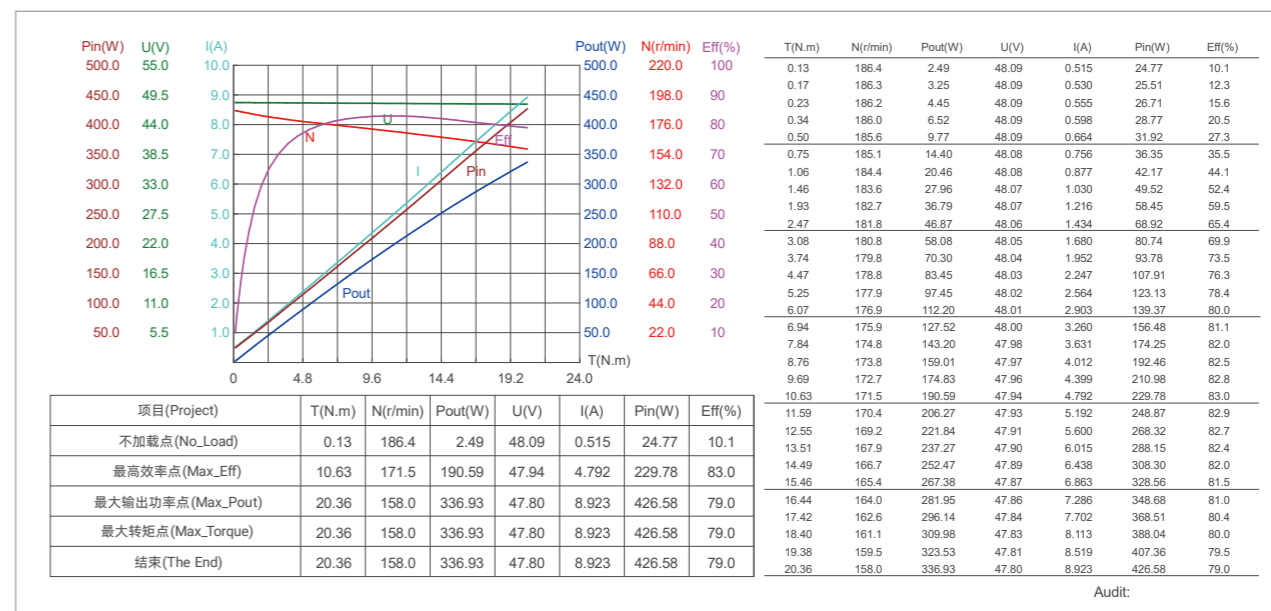
产品参数 Product Parameters

参数 Parameters	单位 Unit	X10-40
减速比 Gear ratio		7
输入电压 Input Voltage	V	48
额定转速 Rated Speed	RPM	165
额定转矩 Rated Torque	N.m	15
额定功率 Rated Power	W	265
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
效率 Efficiency	%	82
极对数 Pole Pair	-	21
反驱力矩 Anti-Force Torque	N.m	0.62
背隙 Backlash	Arcmin	10
轴向负载 Axial Payload	N	1625
径向负载 Radial Payload	N	2250
转动惯量 Inertia	Kg.cm ²	39.7
编码器类型 Encoder Type	bit	14 / 14
通信方式 Communication	-	CAN:1M/RS485:115200/500K/1M/2.5M
重量 Weight	kg	1.15

* 额定转矩测试方法：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

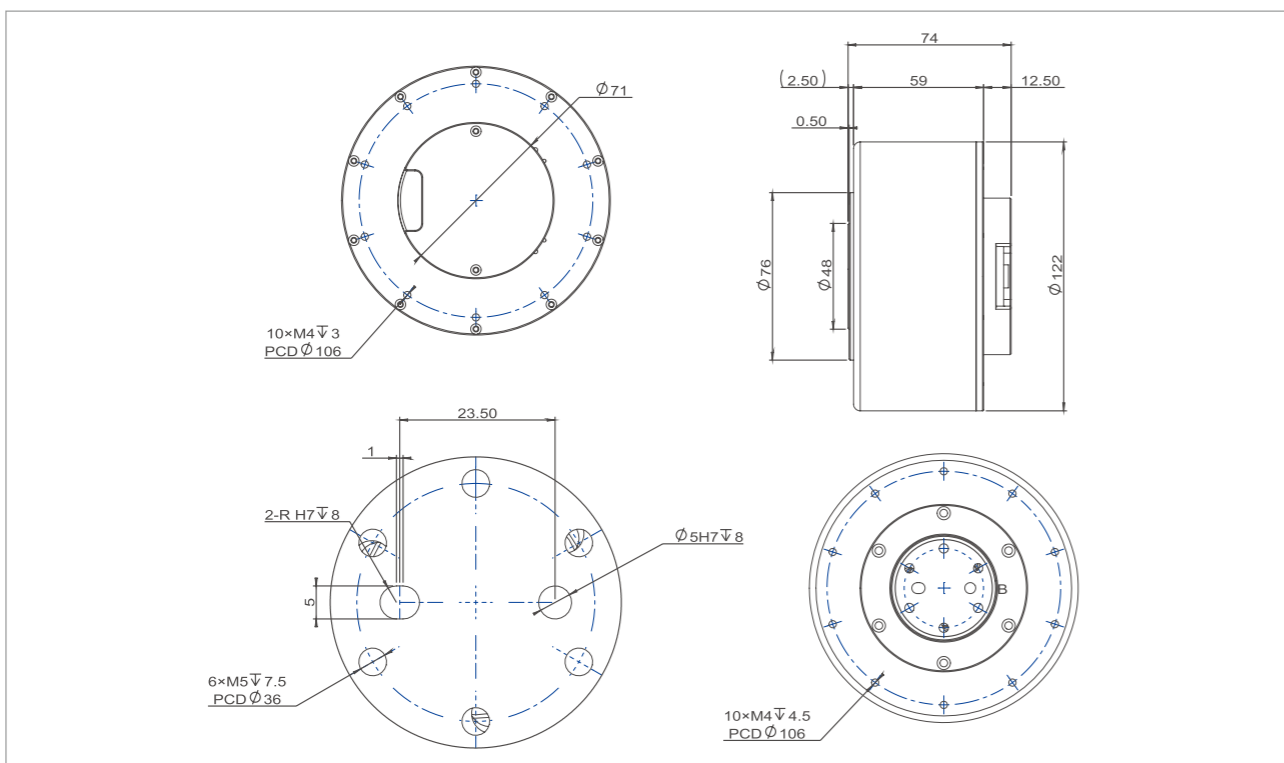


双编码器 Dual Encoder

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)

- * 1. 标准品电机不支持抱闸，如需可定制抱闸。The standard motor doesn't support brake, support customization.
- * 2. 标准品电机不支防水，如需可定制IP54。The standard motor doesn't support IP54, support customization.
- * 3. 标准品电机支持CAN BUS和RS485。The standard motor support CAN BUS and RS485.

尺寸安装图 Installation Drawing



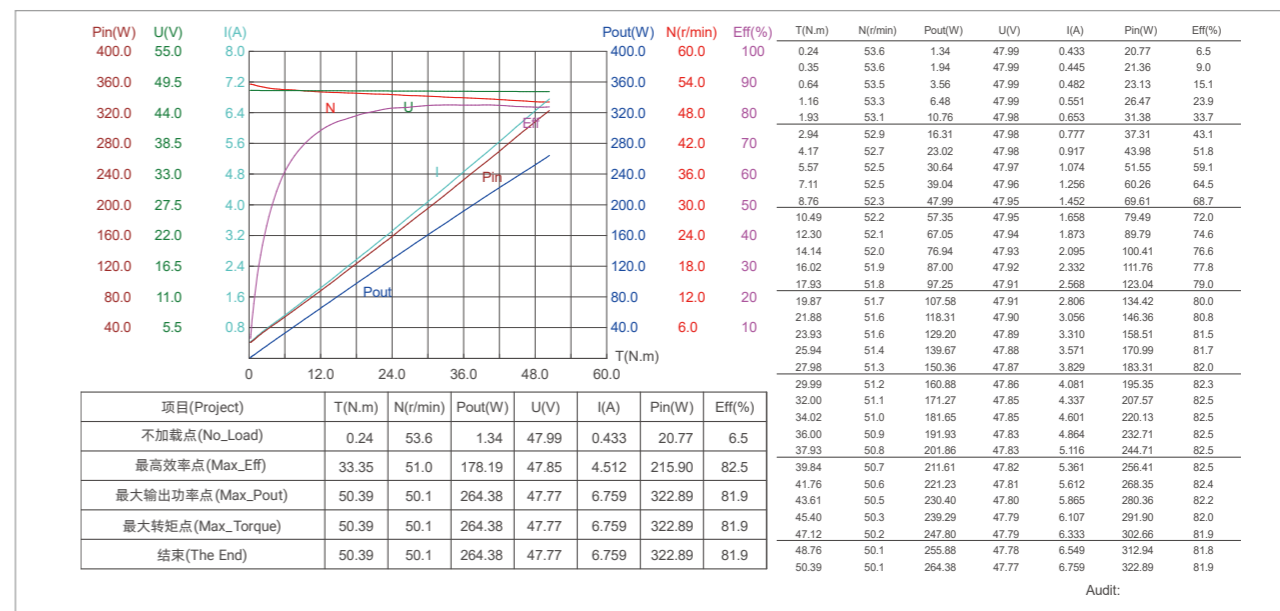
产品参数 Product Parameters

参数 Parameters	单位 Unit	X10-100
减速比 Gear ratio		35
输入电压 Input Voltage	V	48
额定转速 Rated Speed	RPM	50
额定转矩 Rated Torque	N.m	50
额定功率 Rated Power	W	265
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
效率 Efficiency	%	82
极对数 Pole Pair	-	21
反驱力矩 Anti-Force Torque	N.m	2.88
背隙 Backlash	Arcmin	15
轴向负载 Axial Payload	N	1625
径向负载 Radial Payload	N	2250
转动惯量 Inertia	Kg.cm ²	198.6
编码器类型 Encoder Type	bit	14 / 14
通信方式 Communication	-	CAN:1M/RS485:115200/500K/1M/2.5M
重量 Weight	kg	1.7

* 额定转矩测试方法：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

X4-24

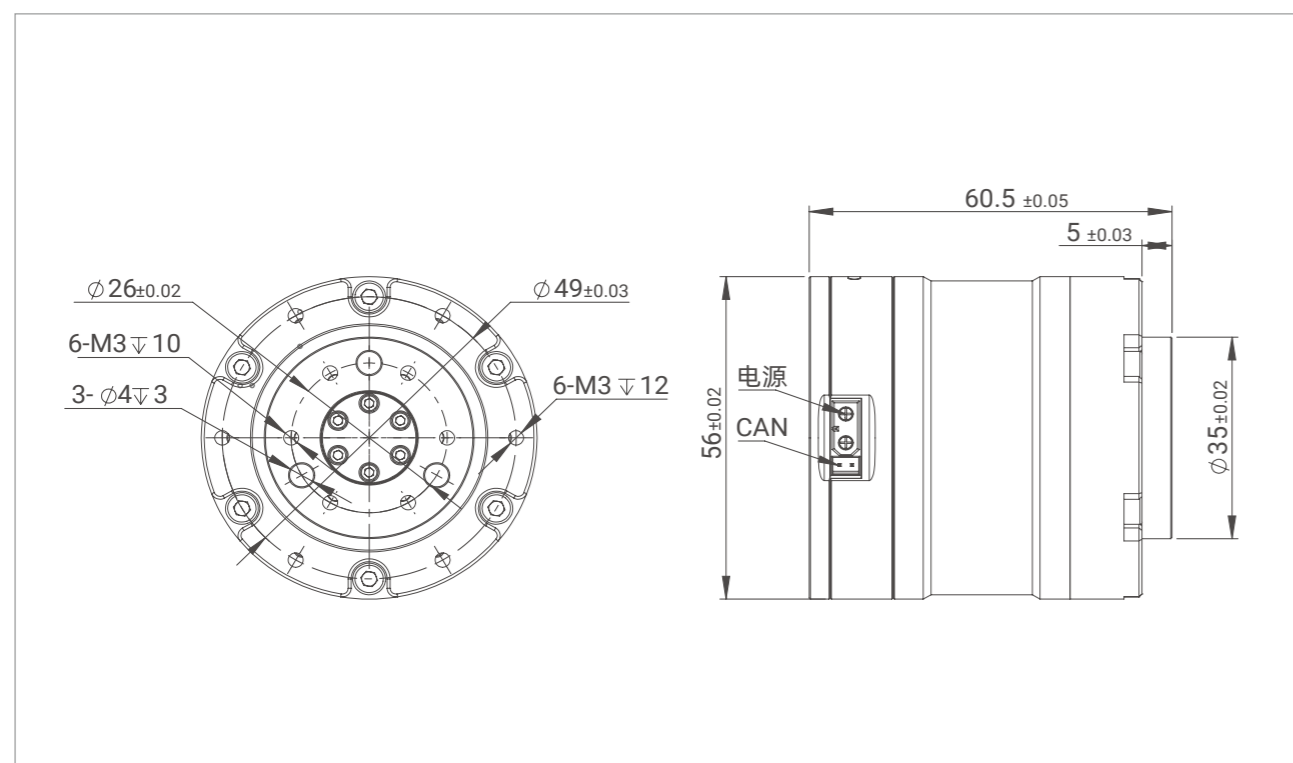


双编码器 Dual Encoder

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)

* 标准品电机只支持CAN BUS。The standard motor only support CAN bus communication.

尺寸安装图 Installation Drawing



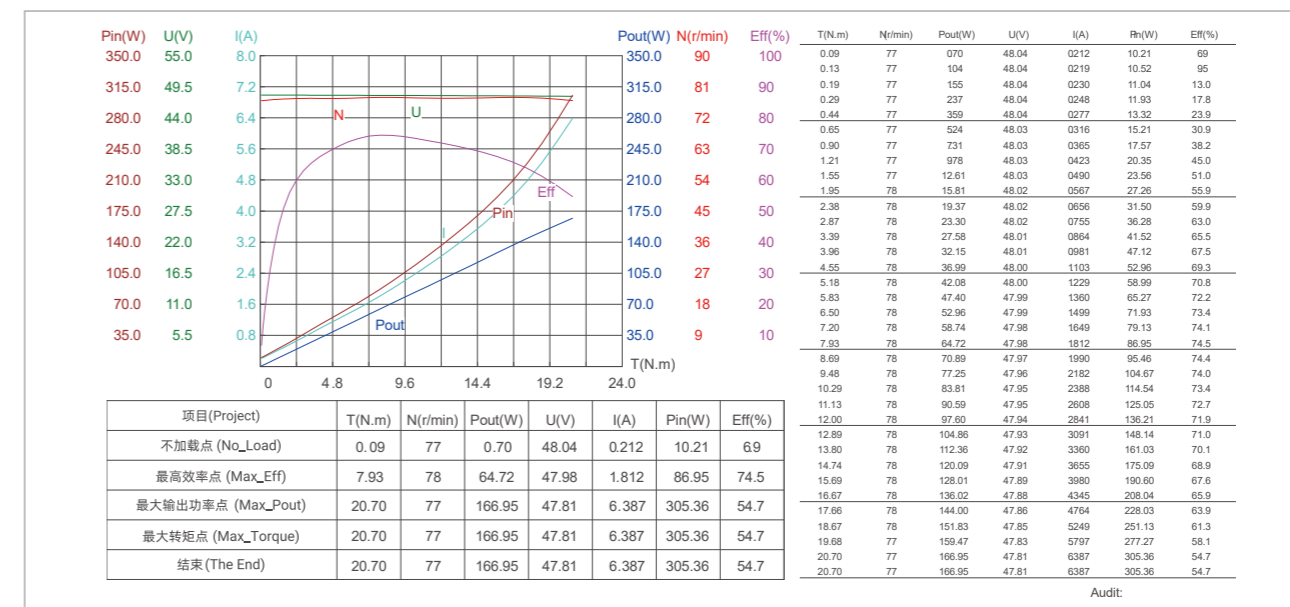
产品参数 Product Parameters

参数 Parameters	单位 Unit	X4-24
减速比 Gear ratio		36
输入电压 Input Voltage	V	48
额定转速 Rated Speed	RPM	100
额定转矩 Rated Torque	N.m	9
额定功率 Rated Power	W	150
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
效率 Efficiency	%	75
极对数 Pole Pair	-	14
反驱力矩 Anti-Force Torque	N.m	0.87
背隙 Backlash	Arcmin	15
轴向负载 Axial Payload	N	1900
径向负载 Radial Payload	N	1900
转动惯量 Inertia	Kg.cm ²	6.8
编码器类型 Encoder Type	bit	14 / 14
通信方式 Communication	-	CAN:1M
重量 Weight	kg	0.38

* 额定转矩测试方法: 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



项目(Project)	T(N.m)	N(r/min)	Pout(W)	U(V)	I(A)	Pin(W)	Eff(%)
不加载点 (No_Load)	0.09	77	0.70	48.04	0.212	10.21	6.9
最高效率点 (Max_Eff)	7.93	78	64.72	47.98	1.812	86.95	74.5
最大输出功率点 (Max_Pout)	20.70	77	166.95	47.81	6.387	305.36	54.7
最大转矩点 (Max_Torque)	20.70	77	166.95	47.81	6.387	305.36	54.7
结束 (The End)	20.70	77	166.95	47.81	6.387	305.36	54.7

Audit:

Design for Bionic Robot

系列名 Series Name

RMD-X Series

电机简称 Motor Simplified Name

X15-400

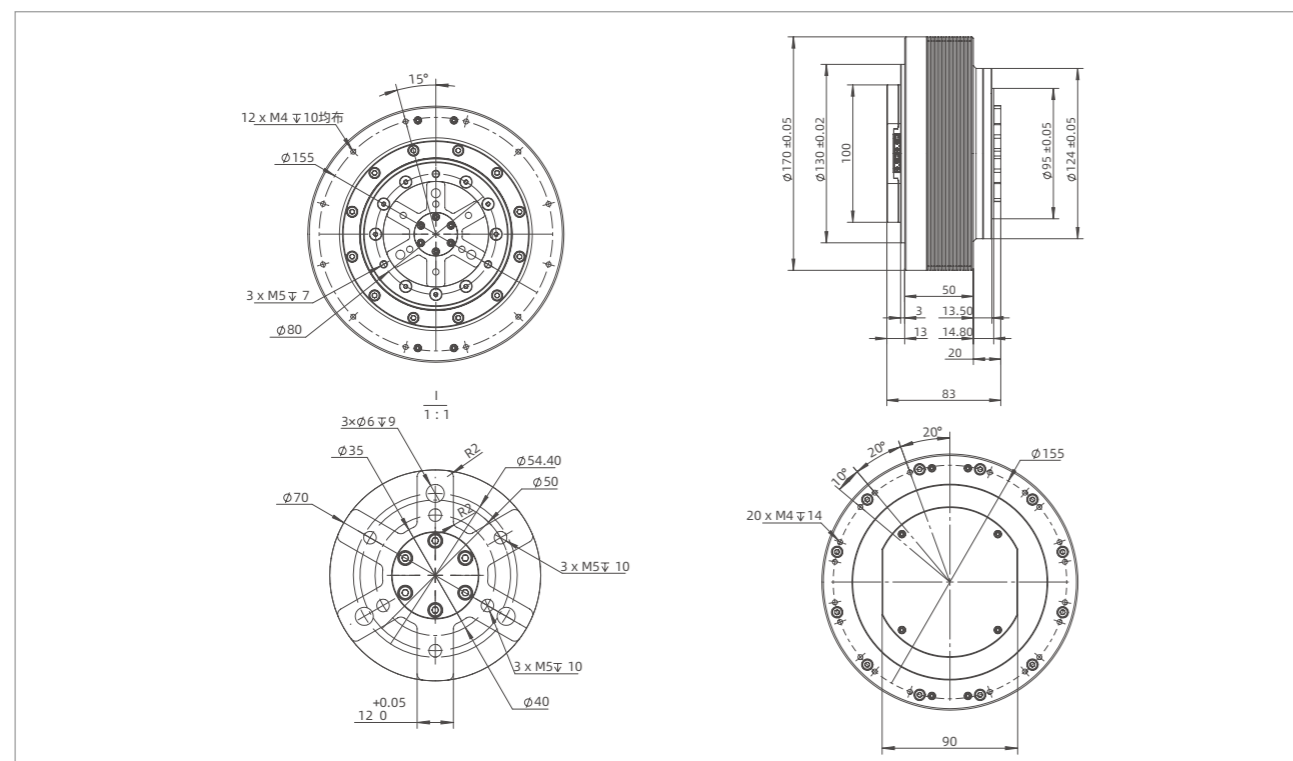


双编码器 Dual Encoder

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)

* 标准品电机只支持CAN BUS。The standard motor only support CAN bus communication.

尺寸安装图 Installation Drawing



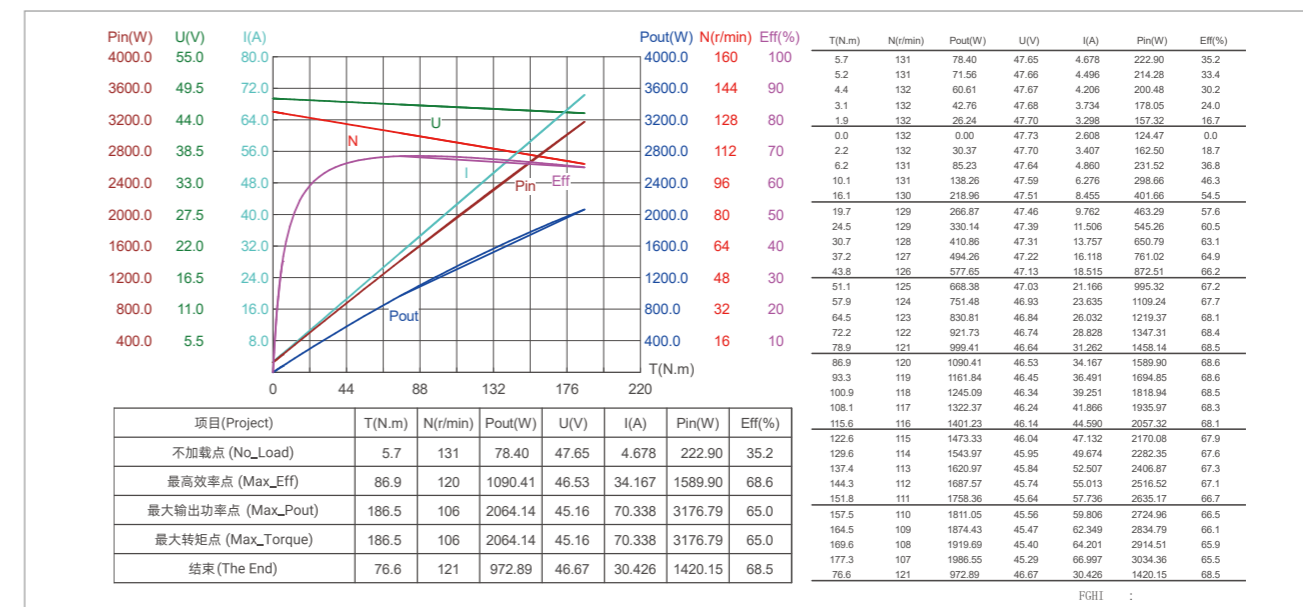
产品参数 Product Parameters

参数 Parameters	单位 Unit	X15-400
减速比 Gear ratio		11.4
输入电压 Input Voltage	V	60
额定转速 Rated Speed	RPM	80
额定转矩 Rated Torque	N.m	130
额定功率 Rated Power	W	1500
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
效率 Efficiency	%	83
极对数 Pole Pair	-	21
反驱力矩 Anti-Force Torque	N.m	2.15
背隙 Backlash	Arcmin	10
轴向负载 Axial Payload	N	6700
径向负载 Radial Payload	N	6700
转动惯量 Inertia	Kg.cm ²	175
编码器类型 Encoder Type	bit	14 / 14
通信方式 Communication	-	CAN:1M
重量 Weight	kg	3.1

* 额定转矩测试方法: 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



应用案例

睿柏机器人

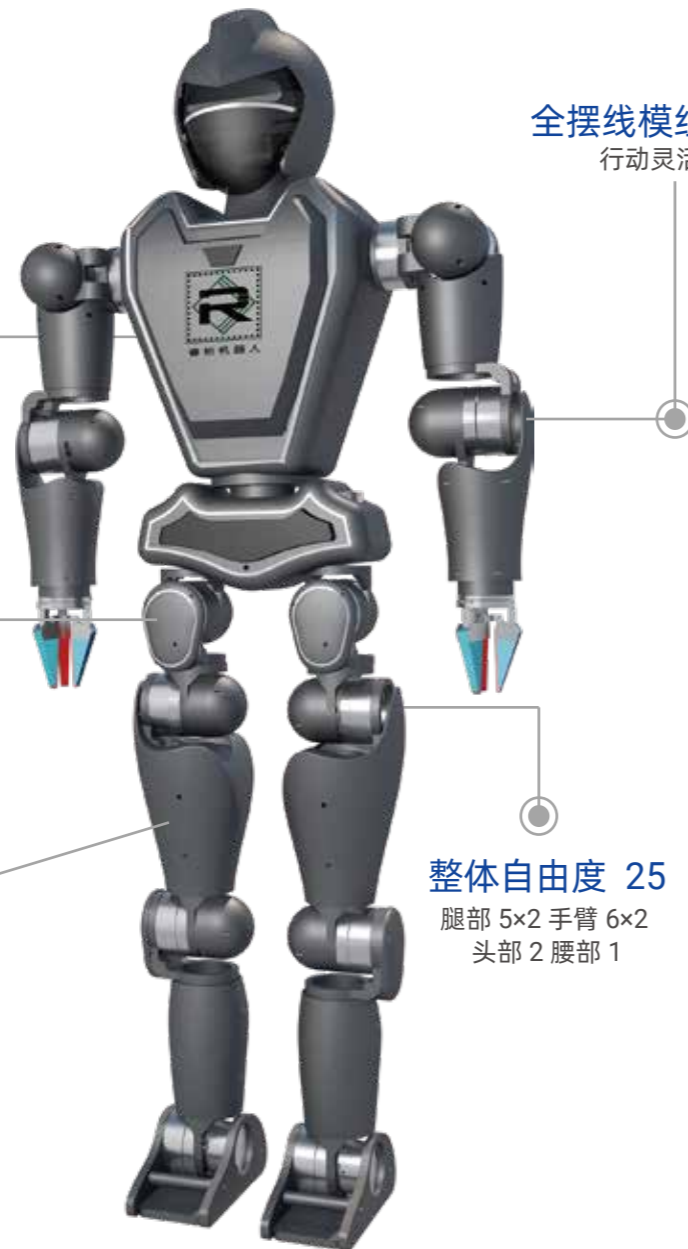
轻量化可定制结构
(140cm 仅35kg)

全摆线模组关节设计
行动灵活自由

全铝内骨骼
兼顾环保与强度

整体自由度 25
腿部 5×2 手臂 6×2
头部 2 腰部 1

采用RV模组
具备高耐冲击性



超轻体重

整体机身仅35kg

高精度

重复定位精度: ±0.05 毫米

长续航

站立姿态低至20w 续航3-6h

高负载

单臂最高可负载5kg

快响应

手臂移动速度: 1 m/s

高自由度

整体自由度25

睿柏机器人

型号	Raybot
机构	人形机器人
手腕可搬运重量	5kg
重复定位精度	±0.05mm
本体重量	35kg

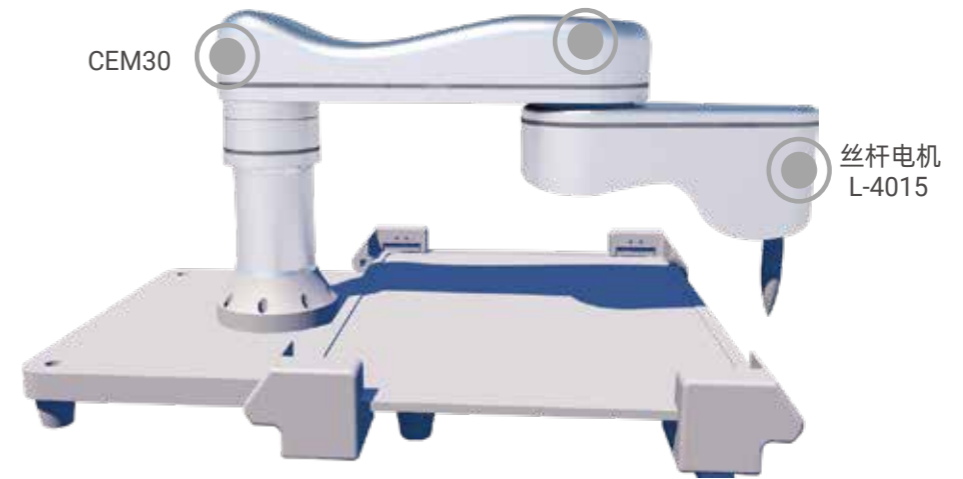
应用案例

六轴谐波机械臂



NV6 机械臂参数		
额定负载	3 kg	
工作半径	630 mm	
关节最大角速度	120 °/s	
末端最大线速度	1.3 m/s	
关节活动范围	J1	± 360°
	J2	± 90°
	J3	± 150°
	J4	± 360°
	J5	± 360°
	J6	± 360°
重复定位精度	±0.05 mm	
IP 等级	IP54	
噪声	60 dB(A)	
温度范围	0 °C ~ 50 °C	
湿度范围	≤95%，非冷凝	
供电电压	24V	
功耗	典型值	36 W
	最大值	240 W
控制方式	WOSC@802.11b/g/n or CAN	
材质	航空铝合金+高分子复合材料	
本体重量	6.5 kg	

SCARA



名称	Raybot-S300D		Raybot-S400H		
工作半径	300MM		400MM		
额定功率	300w		500W		
额定电压	48V		48v		
额定电流	6.25A		10A		
整机质量	2.5kg		5Kg		
关节数据		运动范围	最高速度	运动范围	最高速度
	J1	± 360°	720°/s	± 360°	360°/s
	J2	± 360°	720°/s	± 360°	360°/s
	J3	50mm	50mm/s	50mm	50mm/s
最高重复定位精度	0.05mm		0.05mm		
末端负载	500g		5kg		
通讯方式	485/CAN/WIFI/Ethercat		485/CAN/WIFI/Ethercat		

力控夹爪

名称	Raybot-G1
夹取行程	120mm
最高夹取速度	50mm/s
最高重复定位精度	0.1mm
整体高度	165mm
法兰直径	80mm
额定功率	60W
额定电压	24V
额定电流	2.5A
整机质量	360g
最大负重	2Kg
最大夹持力	20N





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