

# BONENG



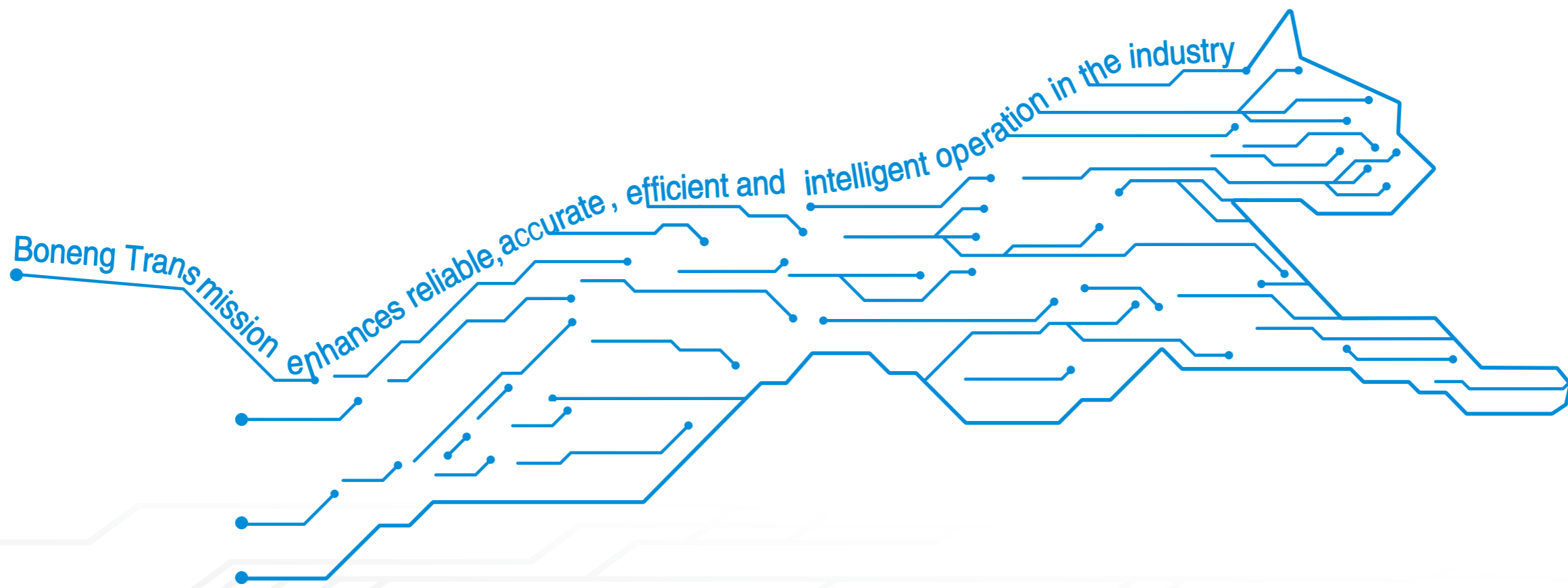
PN-MN行星通用  
齿轮伺服马达&AN  
伺服驱动器

PN-MN Planetary  
Current Servo  
Gearmotor & AN  
Servo Drives

(0.28kW~3.98kW)

Edit date 05/2024  
Selection Catalogue: C05.0056

## Boneng Transmission



控制器/驱动器/马达/  
齿轮马达/齿轮箱

Controller/ Drive/ Motor/  
Gearmotor/ Gearbox

## 造型注意事项

- ◆ 结构示意图、外形图及其它附图只属范例，无严格比例要求。(未注尺寸单位：mm)
- ◆ 所注重量仅为平均值，并不具有约束力。

## ⚠使用注意事项

- ◆ 为防止意外事故发生，所有旋转部件均按照使用者所在国家和地区的安全规范由购置方加罩保护。
- ◆ 试运行之前必须认真阅读使用说明书。
- ◆ 行星齿轮马达应由熟悉相关安全要求的专业人员安装；安装时必须有安全装置以防止事故发生，安装位置必须符合规定。

## Selection precautions

- ◆ The structural schematic diagram, exterior diagram, and other accompanying drawings are only examples and do not have strict scale requirements. (Size units not specified:mm).
- ◆ The weight indicated is only the average value and does not have any binding force.

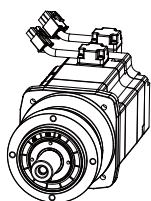
## ⚠Precautions for use

- ◆ To prevent accidents, all rotating parts are covered and protected by the purchaser in accordance with the safety regulations of the user's country and regio.
- ◆ Before trial operation, it is necessary to carefully read the user manual.
- ◆ Planetary gear motors should be installed by professionals familiar with relevant safety requirements; Safety devices must be installed to prevent accidents, ensuring safetyThe installation position must comply with regulations.

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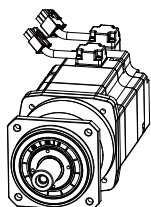
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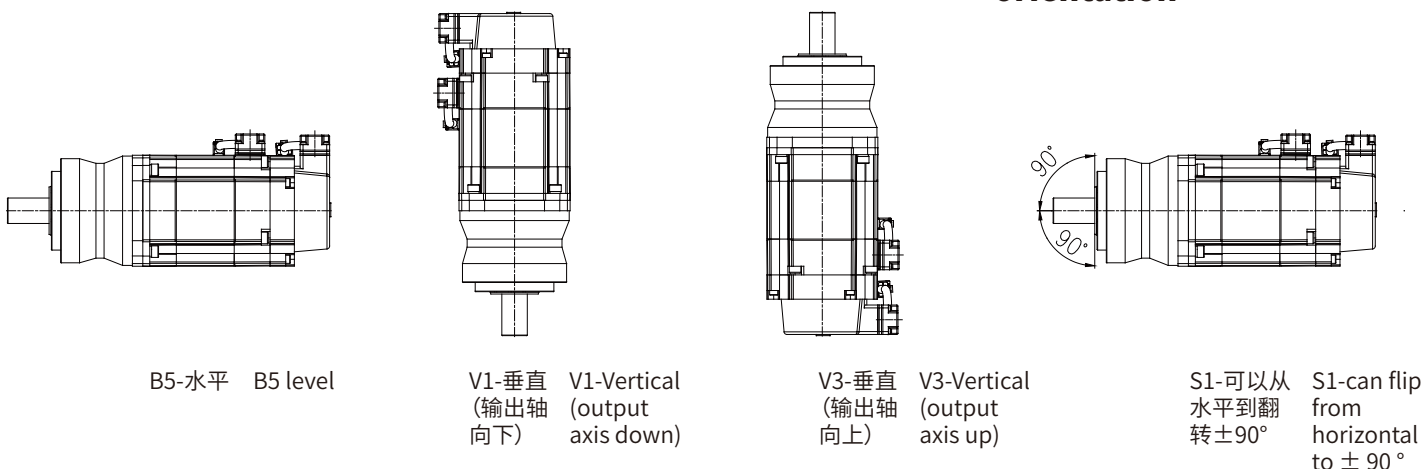
## PN...L-MN行星 通用齿轮伺服马达 1 型号表示方法

## PN...L-MN Planetary Current Servo Gearmotor 1 Model representation method

		PN	2	03	L	A	-	C20	-	B5	S	1	1	-	
<b>产品分类代号</b>	<b>Product classification code</b>														
PN=通用型	PN=Current type														
<b>行星齿轮级数</b>	<b>Planetary gear series</b>														
1=1级	1=1stage														
2=2级	2=2stage														
<b>机座号</b>	<b>Frame size</b>														
01/02/03/04/05	01/02/03/04/05														
<b>产品系列代号</b>	<b>Product series code</b>														
L=圆法兰	L=Round flange														
<b>输出轴形式代号</b>	<b>Output shaft form code</b>														
A=光滑实心轴	A=Smooth solid shaft														
B=平键实心轴	B=Flat key solid shaft														
C=外花键实心轴	C=External spline solid shaft														
<b>公称速比代号</b>	<b>Nominal speed ratio code</b>														
<b>安装方位</b>	<b>Installation orientation</b>														
B5/V1/V3/S1	B5/V1/V3/S1														
<b>回程间隙</b>	<b>Return clearance</b>														
S=标准间隙	S=Standard clearance														
<b>输出轴轴承配置</b>	<b>Output shaft bearing configuration</b>														
1=深沟球轴承+深沟球轴承 (输出轴承配置1典型应用 场合: 联轴器、径向力较小的 直齿轮等)	1=Deep groove ball bearing+Deep groove ball bearing (Output bearing configuration 1 Typical application scenarios: Couplings, spur gears with small radial force, etc.)														
<b>润滑油代号</b>	<b>Lubricating oil code</b>														
1=合成润滑油	1=Synthetic lubricating oil														
2=合成润滑脂	2=Synthetic lubricating grease														
3=食品级润滑油	3=Food grade lubricating oil														
4=食品级润滑脂	4=Food grade lubricating grease														

### 2 PN...L-MN安装方位

### 2 PN...L-MN Installation orientation



MN 048S 1 E30 F P 1 - N 3 A 0 5 - 1 2 1

连接器位置

Connector location

连接器类型

Connector type

2=规格2

2=specifications2

连接器方位

Connector orientation

防护等级

Protection class

5=IP65

5=IP65

热保护

Thermal protection

0=无绕组保护

0=Without thermal protection

制动器

Brake

N=无制动器

N=Without brake

A=永磁制动器

A=With brake

编码器

Encoder

3=编码器

3=Encoder

冷却方式

Cooling method

N=自然冷却

N=Natural cooling

轴孔径代号

Axis aperture code

1、2、3...

1、2、3...

轴伸形式P

Axis extension form P

法兰形式F/L

Flange form F/L

额定转速代号

Rated speed code

E20=2000r/min

E20=2000r/min

E30=3000r/min

E30=3000r/min

结构形式

Structure type

1=紧凑型

1=Compact

机座号

Frame size

三相交流同步  
伺服马达

Three Phase AC  
Synchronous  
Servomotor

### 3 PN...L-MN传动能力表 和外形尺寸图

### 3 PN...L-MN Transmission capacity table and external dimension diagram

伺服马达: 0.28kW 0.9N.m  
0.9A 3000r/min

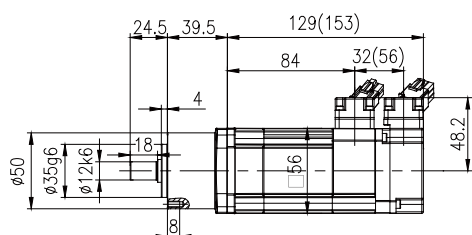
Servo motor: 0.28kW 0.9N.m  
0.9A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
1000	2.6	B30	3	3/1	7	15	19	35	0.18	5		2.67
750	3.5	B40	4	4/1	11	22	28	40	0.16	5		3.15
600	4.4	B50	5	5/1	11	22	28	40	0.16	5		2.52
429	6.1	B70	7	7/1	11	22	28	40	0.155	5		1.80
429	6.1	B70	7	7/1	28	52	70	110	0.18	4		4.58
300	8.7	C10	10	10/1	28	40	55	105	0.17	4		3.21
250	10.3	C12	12	12/1	32	40	50	100	0.17	4		3.12
188	13.7	C16	16	16/1	42	52	60	110	0.17	4		3.07
150	17.1	C20	20	20/1	42	52	60	110	0.16	4		2.46
120	21.4	C25	25	25/1	42	52	70	110	0.16	4		1.96
107	23.9	C28	28	28/1	42	52	60	110	0.16	4		1.75
100	25.7	C30	30	30/1	32	40	50	100	0.15	4		1.25
86	29.9	C35	35	35/1	42	52	70	110	0.16	4		1.40
75	34.2	C40	40	40/1	42	52	60	110	0.15	4		1.23
107	23.9	C28	28	28/1	105	132	132	255	0.19	4		4.39
100	25.7	C30	30	30/1	88	110	110	200	0.17	4		3.43
86	29.9	C35	35	35/1	110	138	165	255	0.19	4		3.68
75	34.2	C40	40	40/1	105	132	132	255	0.16	4		3.07
60	42.8	C50	50	50/1	110	138	165	255	0.16	4		2.57
43	59.9	C70	70	70/1	95	118	118	255	0.16	4		1.59

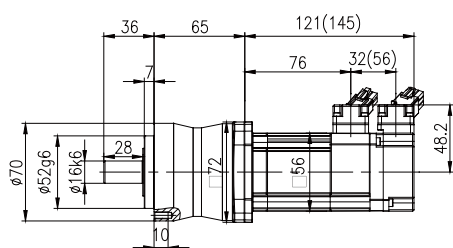
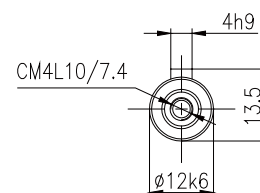
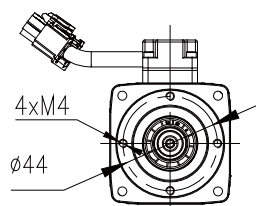
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101L□-B30-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101L□-B40-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101L□-B50-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101L□-B70-□□□□-MN028S1E30FP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B70-□□□□-MN028S1E30LP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-C10-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C12-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C16-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C20-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C25-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C28-□□□□-MN028S1E30FP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C30-□□□□-MN028S1E30FP3	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C35-□□□□-MN028S1E30FP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C40-□□□□-MN028S1E30FP3	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C28-□□□□-MN028S1E30LP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C30-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C35-□□□□-MN028S1E30LP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C40-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C50-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C70-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake	18	(Length 3m)B30	Without	10	B30(Length 3m)
			battery box		
With brake	16	(Length 5m)B50			B50(Length 5m)
		(Length 7m)B70	With	11	B70(Length 7m)
		(Length 10m)C10	battery box		C10(Length 10m)

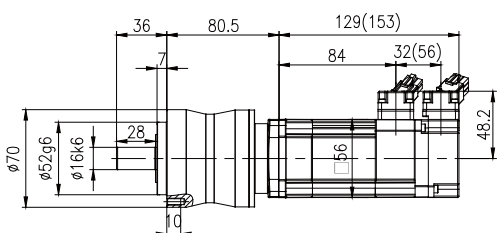
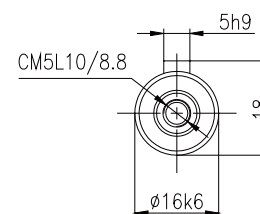
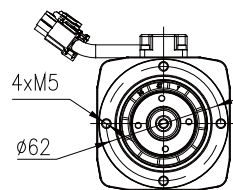
## MN028S outline dimension diagram



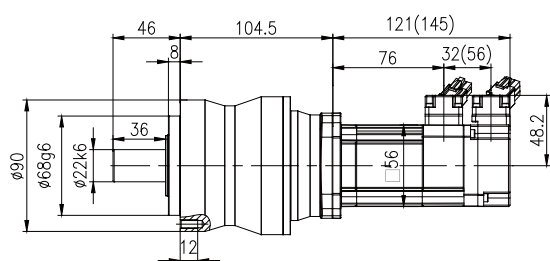
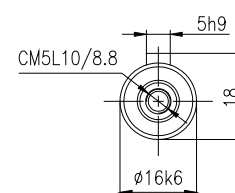
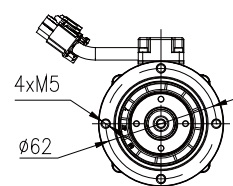
PN101L□-□□□-□□□□-**MN028S1E30FP2**



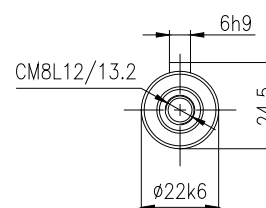
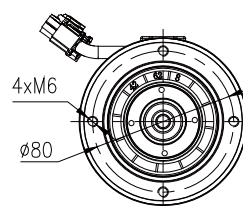
PN102L□-□□□-□□□□-**MN028S1E30LP1**



PN202L□-□□□-□□□□-**MN028S1E30FP3**



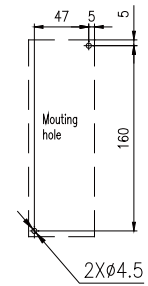
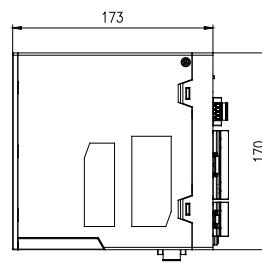
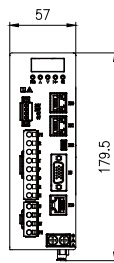
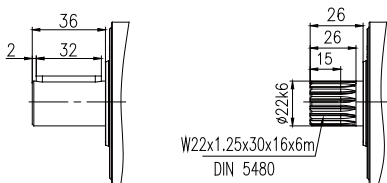
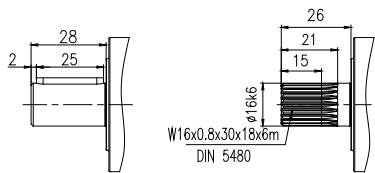
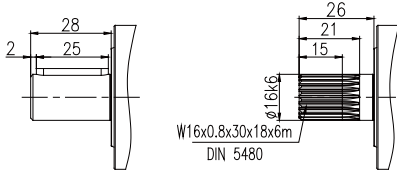
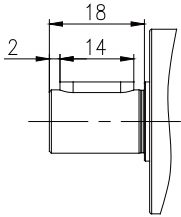
PN203L□-□□□-□□□□-**MN028S1E30LP1**



注：( ) 为带制动器尺寸

Note: ( ) is the size with brake

**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC

伺服马达: 0.42kW 1.3N.m  
1A 3000r/min

Servo motor: 0.42kW 1.3N.m  
1A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
1000	3.8	B30	3	3/1	7	15	19	35	0.28	5		1.85
750	5.0	B40	4	4/1	11	22	28	40	0.26	5		2.18
600	6.3	B50	5	5/1	11	22	28	40	0.26	5		1.74
429	8.8	B70	7	7/1	28	52	70	110	0.28	4		3.17
300	12.6	C10	10	10/1	28	40	55	105	0.27	4		2.22
250	14.8	C12	12	12/1	32	40	50	100	0.27	4		2.16
188	19.8	C16	16	16/1	42	52	60	110	0.27	4		2.13
150	24.7	C20	20	20/1	42	52	60	110	0.26	4		1.70
120	30.9	C25	25	25/1	42	52	70	110	0.26	4		1.36
107	34.6	C28	28	28/1	105	132	132	255	0.29	4		3.04
100	37.1	C30	30	30/1	88	110	110	200	0.27	4		2.38
86	43.2	C35	35	35/1	110	138	165	255	0.29	4		2.54
75	49.4	C40	40	40/1	105	132	132	255	0.26	4		2.13
60	61.8	C50	50	50/1	110	138	165	255	0.26	4		1.78
43	86.5	C70	70	70/1	95	118	118	255	0.26	4		1.10

此类产品交货期长

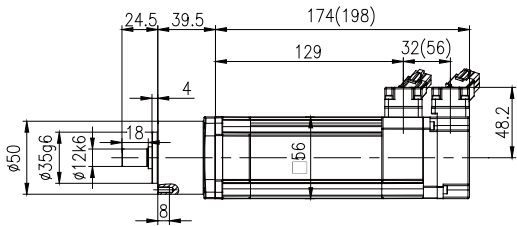
This type of product has  
a long delivery time

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101L□-B30-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101L□-B40-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101L□-B50-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B70-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-C10-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C12-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C16-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C20-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C25-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C28-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C30-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C35-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C40-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C50-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C70-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

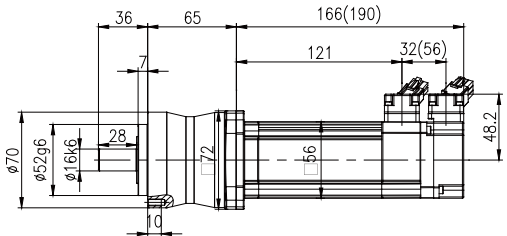
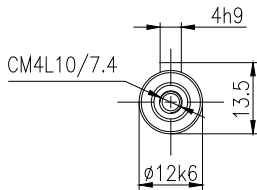
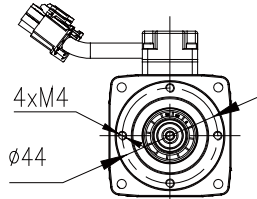
Without brake 18	(Length 3m)B30	Without 10	B30(Length 3m)
With brake 16	(Length 5m)B50	battery box	B50(Length 5m)
	(Length 7m)B70	With 11	B70(Length 7m)
	(Length 10m)C10	battery box	C10(Length 10m)



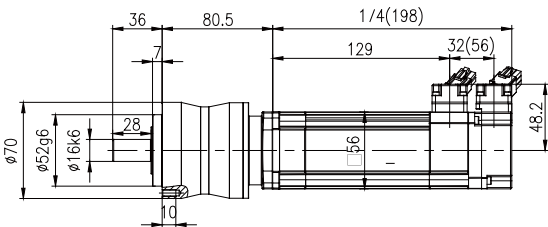
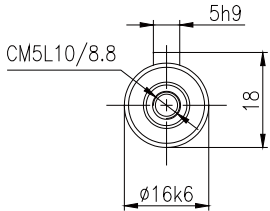
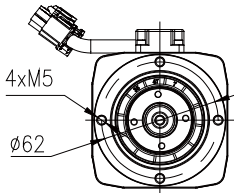
**MN028M outline dimension diagram**



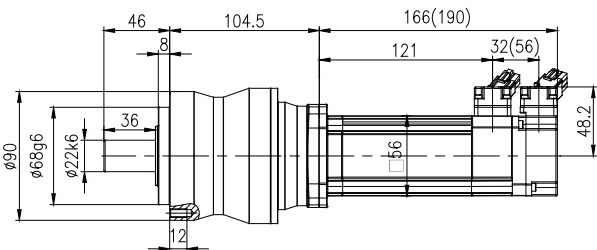
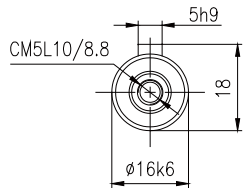
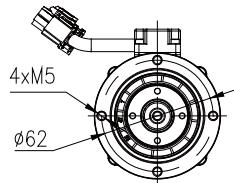
PN101L□-□□□-□□□□- MN028M1E30FP2



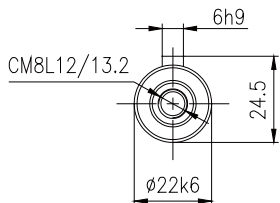
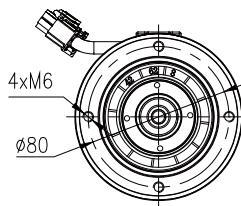
PN102L□-□□□-□□□□- MN028M1E30LP1



PN202L□-□□□-□□□□- MN028M1E30FP3



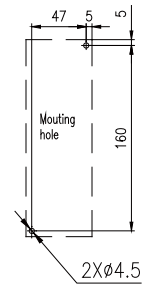
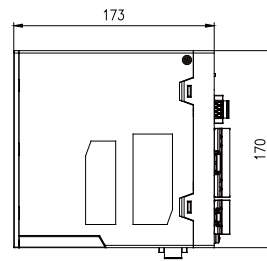
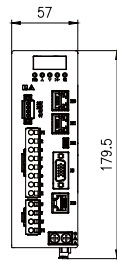
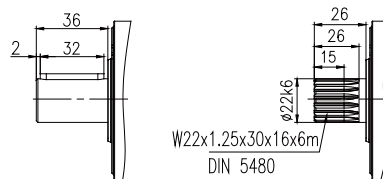
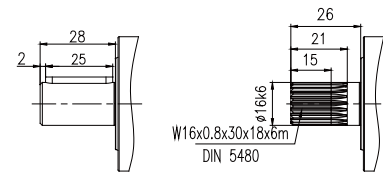
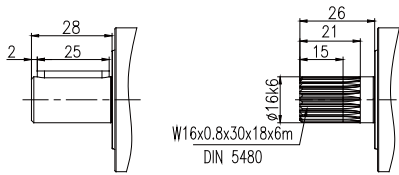
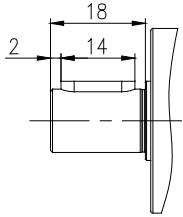
PN203L□-□□□-□□□□- MN028M1E30LP1



注： ( ) 为带制动器尺寸

Note: ( ) is the size with brake

**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC

伺服马达: 0.47kW 1.5N.m  
1.15A 3000r/min

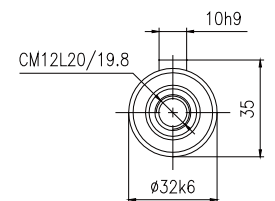
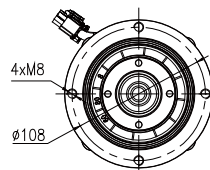
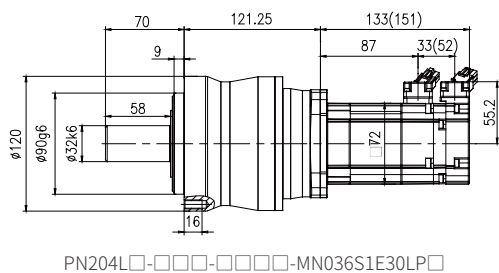
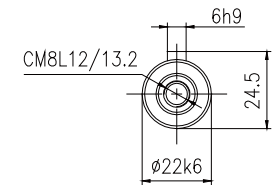
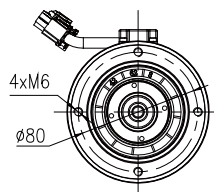
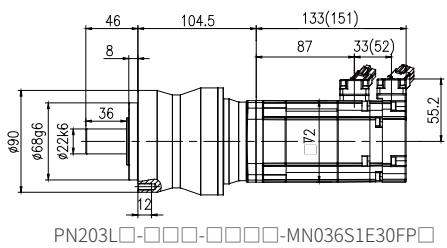
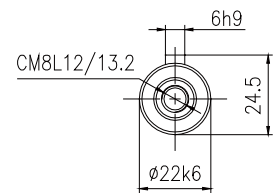
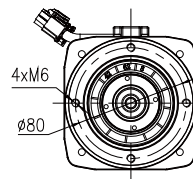
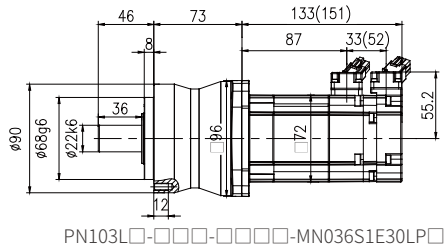
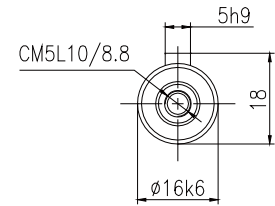
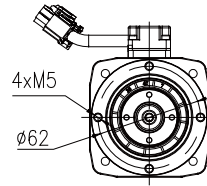
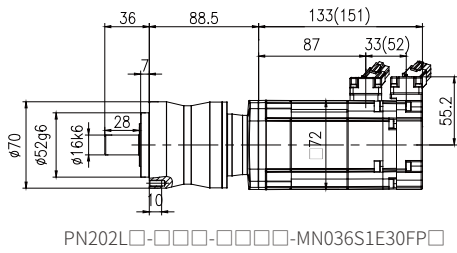
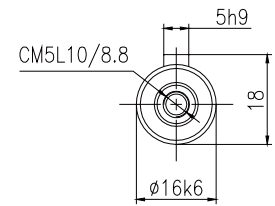
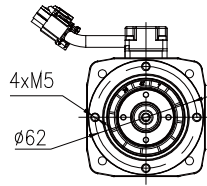
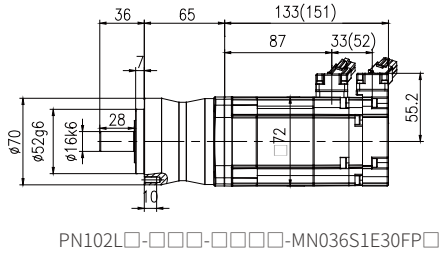
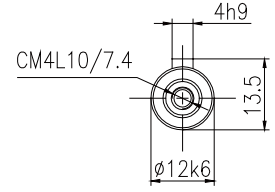
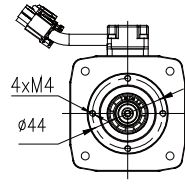
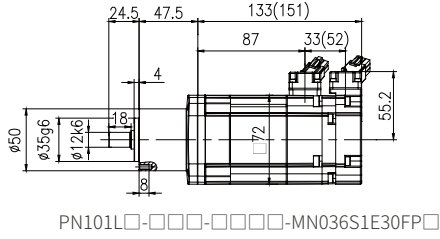
Servo motor: 0.47kW 1.5N.m  
1.15A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
1000	4.4	B30	3	3/1	7	15	19	35	0.77	5		1.60
750	5.8	B40	4	4/1	11	22	28	40	0.75	5		1.89
600	7.3	B50	5	5/1	11	22	28	40	0.75	5		1.51
1000	4.4	B30	3	3/1	22	40	55	100	0.92	4		5.04
750	5.8	B40	4	4/1	28	52	70	110	0.84	4		4.81
600	7.3	B50	5	5/1	28	52	70	110	0.8	4		3.85
429	10.2	B70	7	7/1	28	52	70	110	0.77	4		2.75
300	14.6	C10	10	10/1	28	40	55	105	0.76	4		1.92
250	17.1	C12	12	12/1	32	40	50	100	0.76	4		1.87
188	22.8	C16	16	16/1	42	52	60	110	0.76	4		1.84
150	28.5	C20	20	20/1	42	52	60	110	0.75	4		1.47
120	35.6	C25	25	25/1	42	52	70	110	0.75	4		1.18
300	14.6	C10	10	10/1	85	120	160	200	0.81	3		5.84
250	17.1	C12	12	12/1	88	110	110	200	0.87	4		5.15
188	22.8	C16	16	16/1	105	132	132	255	0.84	4		4.61
150	28.5	C20	20	20/1	105	132	132	255	0.82	4		3.68
120	35.6	C25	25	25/1	110	138	165	255	0.81	4		3.09
107	39.9	C28	28	28/1	105	132	132	255	0.78	4		2.63
100	42.8	C30	30	30/1	88	110	110	200	0.76	4		2.06
86	49.9	C35	35	35/1	110	138	165	255	0.78	4		2.21
75	57.0	C40	40	40/1	105	132	132	255	0.75	4		1.84
60	71.3	C50	50	50/1	110	138	165	255	0.75	4		1.54
100	42.8	C30	30	30/1	215	270	270	515	0.83	3		5.03
75	57.0	C40	40	40/1	285	360	360	630	0.81	3		5.00
60	71.3	C50	50	50/1	285	360	360	630	0.81	3		4.00
43	99.8	C70	70	70/1	285	360	360	630	0.81	3		2.86
30	142.5	D10	100	100/1	215	270	270	630	0.80	3		1.51

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101L□-B30-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101L□-B40-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101L□-B50-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B30-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B40-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B50-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B70-□□□□-MN036S1E30FP3	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-C10-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C12-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C16-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C20-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202L□-C25-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-C10-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C12-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C16-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C20-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C25-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C28-□□□□-MN036S1E30FP3	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C30-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C35-□□□□-MN036S1E30FP3	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C40-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C50-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C30-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C40-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C50-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C70-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-D10-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30      Without 10 B30(Length 3m)  
 battery box  
 With brake 16 (Length 5m)B50      B50(Length 5m)  
 (Length 7m)B70      With 11  
 battery box      B70(Length 7m)  
 (Length 10m)C10      C10(Length 10m)

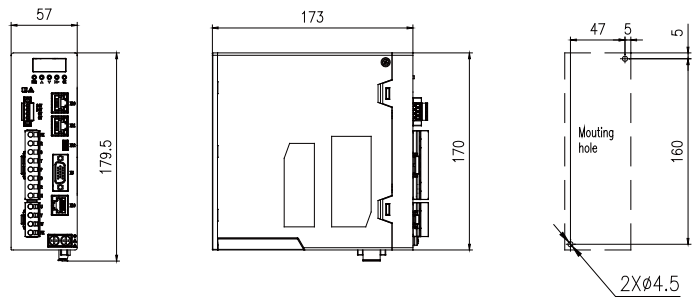
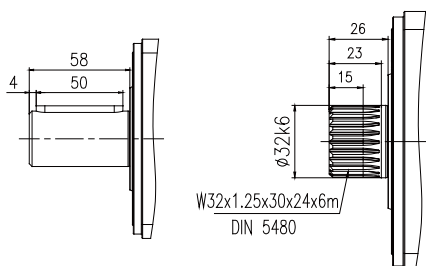
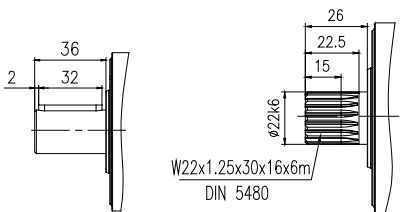
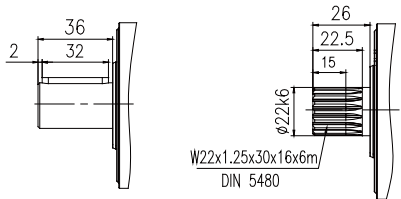
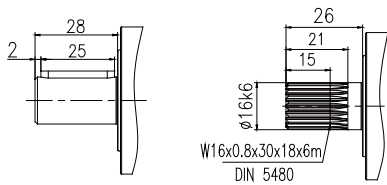
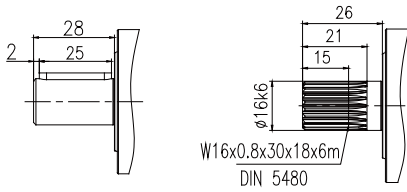
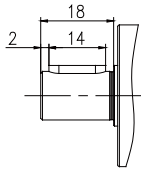
**MN036S outline dimension diagram**



注: ( ) 为带制动器尺寸

Note: ( ) is the size with brake

**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC

伺服马达: 0.75kW 2.4N.m  
1.6A 3000r/min

Servo motor: 0.75kW 2.4N.m  
1.6A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
1000	7.0	B30	3	3/1	22	40	55	100	1.59	4		3.15
750	9.3	B40	4	4/1	28	52	70	110	1.51	4		3.01
600	11.6	B50	5	5/1	28	52	70	110	1.47	4		2.41
429	16.3	B70	7	7/1	28	52	70	110	1.44	4		1.72
300	23.3	C10	10	10/1	28	40	55	105	1.43	4		1.20
429	16.3	B70	7	7/1	85	140	185	255	1.54	3		5.22
300	23.3	C10	10	10/1	85	120	160	200	1.48	3		3.65
250	27.4	C12	12	12/1	88	110	110	200	1.54	4		3.22
188	36.5	C16	16	16/1	105	132	132	255	1.51	4		2.88
150	45.6	C20	20	20/1	105	132	132	255	1.49	4		2.30
120	57.0	C25	25	25/1	110	138	165	255	1.48	4		1.93
107	63.8	C28	28	28/1	105	132	132	255	1.45	4		1.64
100	68.4	C30	30	30/1	88	110	110	200	1.43	4		1.29
86	79.8	C35	35	35/1	110	138	165	255	1.45	4		1.38
75	91.2	C40	40	40/1	105	132	132	255	1.42	4		1.15
107	63.8	C28	28	28/1	285	360	360	630	1.56	3		4.46
100	68.4	C30	30	30/1	215	270	270	515	1.50	3		3.14
86	79.8	C35	35	35/1	285	360	360	630	1.55	3		3.57
75	91.2	C40	40	40/1	285	360	360	630	1.48	3		3.13
60	114.0	C50	50	50/1	285	360	360	630	1.48	3		2.50
43	159.6	C70	70	70/1	285	360	360	630	1.48	3		1.79

此类产品交货期长

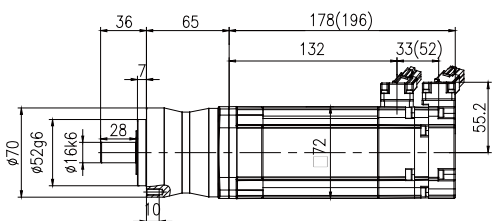
This type of product has  
a long delivery time

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102L□-B30-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B40-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B50-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B70-□□□□-MN036M1E30FP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-C10-□□□□-MN036M1E30FP3	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B70-□□□□-MN036M1E30LP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-C10-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C12-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C16-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C20-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C25-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C28-□□□□-MN036M1E30FP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C30-□□□□-MN036M1E30FP3	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C35-□□□□-MN036M1E30FP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C40-□□□□-MN036M1E30FP3	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C28-□□□□-MN036M1E30LP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C30-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C35-□□□□-MN036M1E30LP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C40-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C50-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C70-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

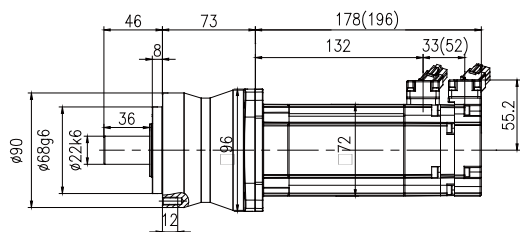
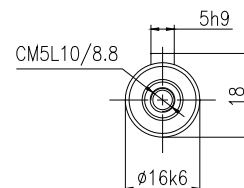
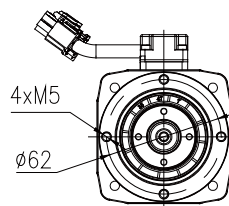
Without brake 18	(Length 3m)B30	Without battery box 10	B30(Length 3m)
With brake 16	(Length 5m)B50	With battery box 11	B50(Length 5m)
	(Length 7m)B70		B70(Length 7m)
	(Length 10m)C10		C10(Length 10m)



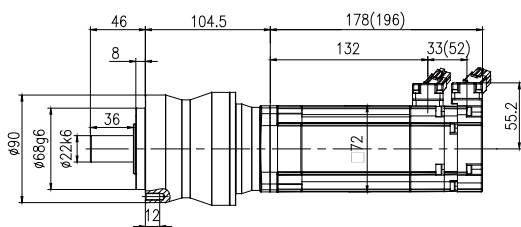
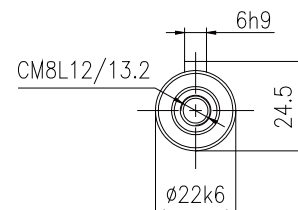
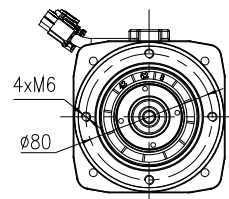
### MN036M outline dimension diagram



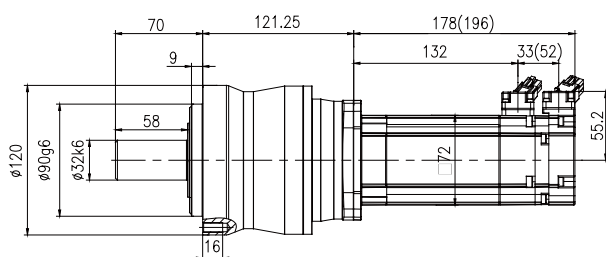
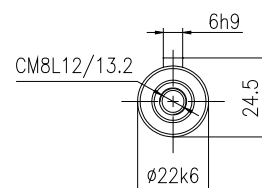
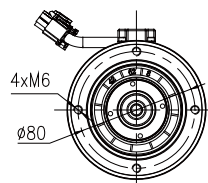
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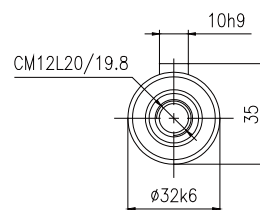
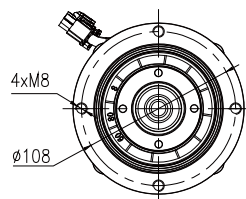
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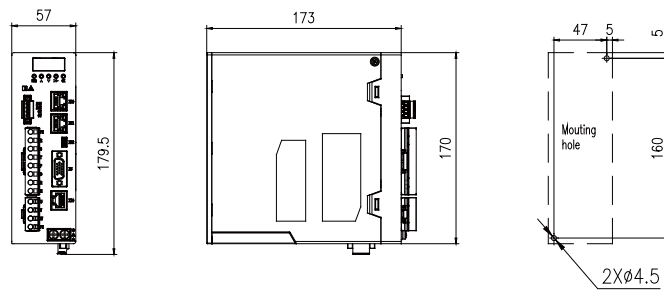
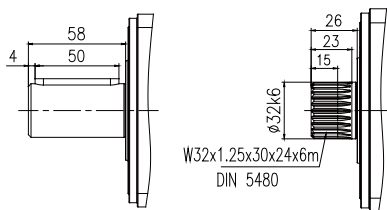
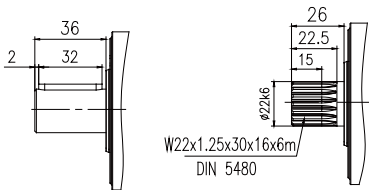
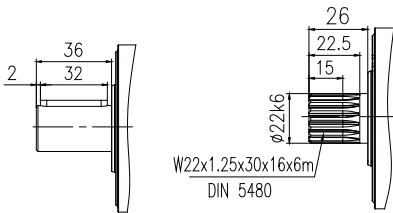
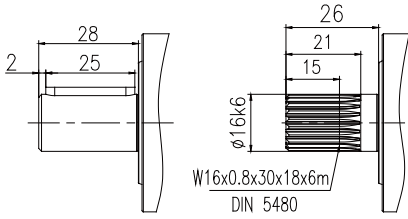
PN203L□-□□□-□□□□-MN036M1E30FP□



PN204L□-□□□-□□□□-MN036M1E30LP□



**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC

伺服马达: 1kW 3.2N.m 2.2A  
3000r/min

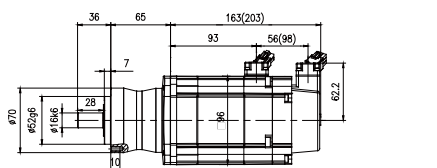
Servo motor: 1kW 3.2N.m 2.2A  
3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
1000	9.3	B30	3	3/1	22	40	55	100	2.71	4		2.36
750	12.4	B40	4	4/1	28	52	70	110	2.63	4		2.26
600	15.5	B50	5	5/1	28	52	70	110	2.59	4		1.80
1000	9.3	B30	3	3/1	66	108	142	200	3.28	3		7.09
750	12.4	B40	4	4/1	85	140	185	255	2.92	3		6.85
600	15.5	B50	5	5/1	85	140	185	255	2.79	3		5.48
429	21.7	B70	7	7/1	85	140	185	255	2.66	3		3.91
300	31.0	C10	10	10/1	85	120	160	200	2.60	3		2.74
250	36.5	C12	12	12/1	88	110	110	200	2.66	4		2.41
188	48.6	C16	16	16/1	105	132	132	255	2.63	4		2.16
150	60.8	C20	20	20/1	105	132	132	255	2.61	4		1.73
120	76.0	C25	25	25/1	110	138	165	255	2.60	4		1.45
300	31.0	C10	10	10/1	185	290	390	630	2.78	2		5.96
250	36.5	C12	12	12/1	215	270	270	515	3.07	3		5.89
188	48.6	C16	16	16/1	250	360	360	630	2.98	3		5.14
150	60.8	C20	20	20/1	265	360	360	630	2.82	3		4.36
120	76.0	C25	25	25/1	265	360	360	630	2.80	3		3.49
107	85.1	C28	28	28/1	285	360	360	630	2.68	3		3.35
100	91.2	C30	30	30/1	215	270	270	515	2.62	3		2.36
86	106.4	C35	35	35/1	285	360	360	630	2.67	3		2.68
75	121.6	C40	40	40/1	285	360	360	630	2.60	3		2.34
60	152.0	C50	50	50/1	285	360	360	630	2.60	3		1.88
43	212.8	C70	70	70/1	285	360	360	630	2.60	3		1.34
107	85.1	C28	28	28/1	570	760	760	1350	3.07	2		6.70
100	91.2	C30	30	30/1	300	530	530	1250	2.85	2		3.29
86	106.4	C35	35	35/1	560	700	700	1350	3.04	2		5.26
75	121.6	C40	40	40/1	610	760	760	1350	2.80	2		5.02
60	152.0	C50	50	50/1	560	700	700	1350	2.78	2		3.68
43	212.8	C70	70	70/1	610	725	725	1350	2.77	2		2.87
30	304.0	D10	100	100/1	490	590	590	1250	2.76	2		1.61

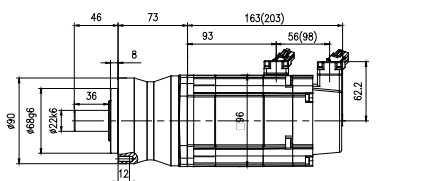
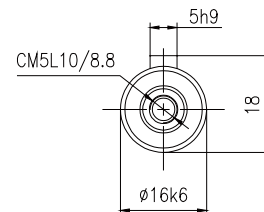
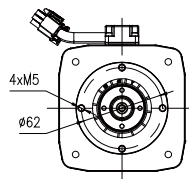
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
	Servo motor ID			Servo motor cable configuration order number	
Order number of planetary precision gear servo motor	Without brake	With brake	Servo driver order number	Servo motor power line	Servo motor signal line
PN102L□-B30-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B40-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B50-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B30-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B40-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B50-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B70-□□□□-MN048S1E30FP3	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-C10-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C12-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C16-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C20-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C25-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-C10-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C12-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C16-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C20-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C25-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C28-□□□□-MN048S1E30FP3	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C30-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C35-□□□□-MN048S1E30FP3	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C40-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C50-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C70-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C28-□□□□-MN048S1E30LP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C30-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C35-□□□□-MN048S1E30LP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C40-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C50-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C70-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-D10-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18	(Length 3m)B30	Without 10	B30(Length 3m)
With brake 16	(Length 5m)B50	battery box	B50(Length 5m)
	(Length 7m)B70	With 11	B70(Length 7m)
	(Length 10m)C10	battery box	C10(Length 10m)

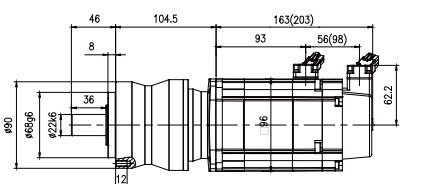
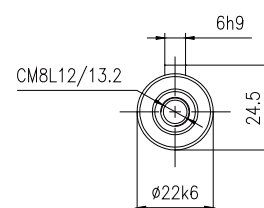
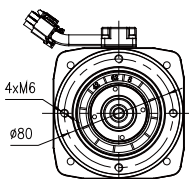
### MN048S outline dimension diagram



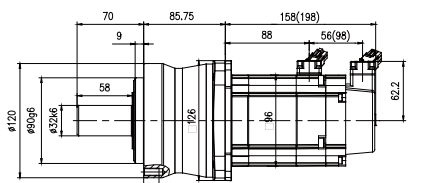
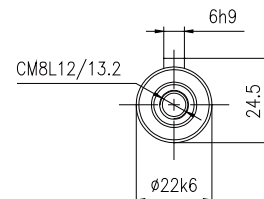
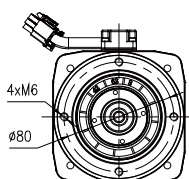
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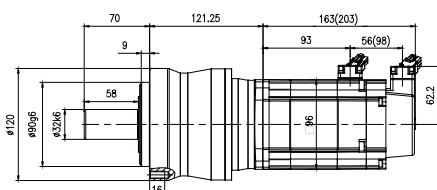
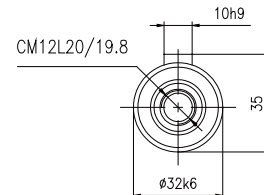
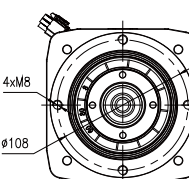
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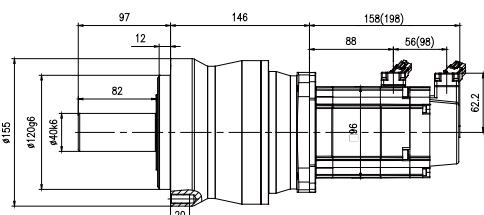
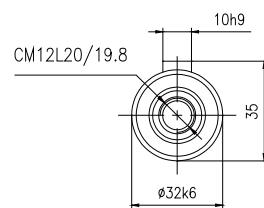
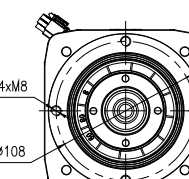
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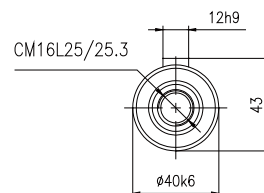
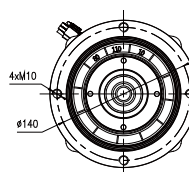
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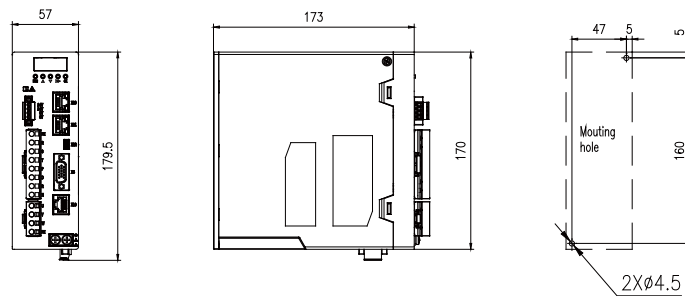
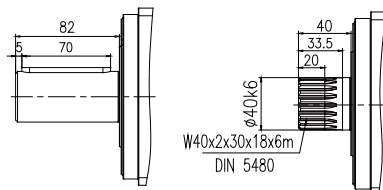
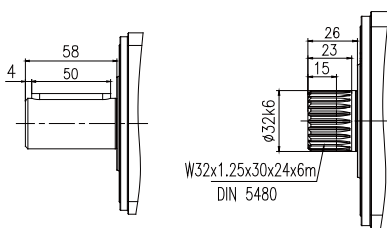
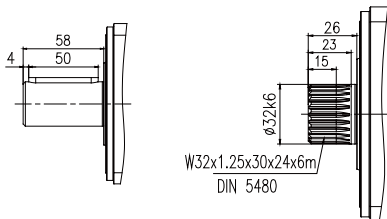
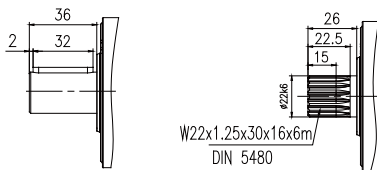
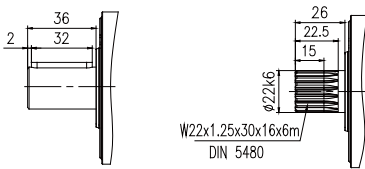
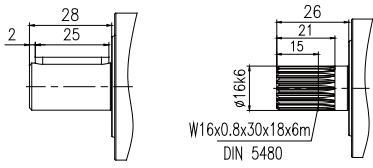
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PN205L□-□□□-□□□□- MN048S1E30LP□



**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 1.5kW 4.8N.m 3A  
3000r/min

Servo motor: 1.5kW 4.8N.m 3A  
3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
1000	14.0	B30	3	3/1	22	40	55	100	5.03	4		1.58
750	18.6	B40	4	4/1	28	52	70	110	4.95	4		1.50
600	23.3	B50	5	5/1	28	52	70	110	4.91	4		1.20
1000	14.0	B30	3	3/1	66	108	142	200	5.60	3		4.73
750	18.6	B40	4	4/1	85	140	185	255	5.24	3		4.56
600	23.3	B50	5	5/1	85	140	185	255	5.11	3		3.65
429	32.6	B70	7	7/1	85	140	185	255	4.98	3		2.61
300	46.6	C10	10	10/1	85	120	160	200	4.92	3		1.83
250	54.7	C12	12	12/1	88	110	110	200	4.98	4		1.61
188	73.0	C16	16	16/1	105	132	132	255	4.95	4		1.44
150	91.2	C20	20	20/1	105	132	132	255	4.93	4		1.15
429	31.9	B70	7	7/1	185	390	445	630	5.35	2		5.80
300	46.6	C10	10	10/1	185	290	390	630	5.10	2		3.97
250	54.7	C12	12	12/1	215	270	270	515	5.39	3		3.93
188	73.0	C16	16	16/1	250	360	360	630	5.30	3		3.43
150	91.2	C20	20	20/1	265	360	360	630	5.14	3		2.91
120	114.0	C25	25	25/1	265	360	360	630	5.12	3		2.32
107	127.7	C28	28	28/1	285	360	360	630	5.00	3		2.23
100	136.8	C30	30	30/1	215	270	270	515	4.94	3		1.57
86	159.6	C35	35	35/1	285	360	360	630	4.99	3		1.79
75	182.4	C40	40	40/1	285	360	360	630	4.92	3		1.56
60	228.0	C50	50	50/1	285	360	360	630	4.92	3		1.25
107	127.7	C28	28	28/1	570	760	760	1350	5.39	2		4.46
100	136.8	C30	30	30/1	300	530	530	1250	5.17	2		2.19
86	159.6	C35	35	35/1	560	700	700	1350	5.36	2		3.51
75	182.4	C40	40	40/1	610	760	760	1350	5.12	2		3.34
60	228.0	C50	50	50/1	560	700	700	1350	5.10	2		2.46
43	319.2	C70	70	70/1	610	725	725	1350	5.09	2		1.91
30	456.0	D10	100	100/1	490	590	590	1250	5.08	2		1.07

此类产品交货期长

This type of product has  
a long delivery time

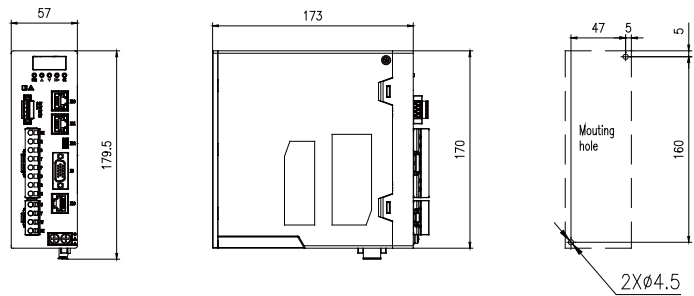
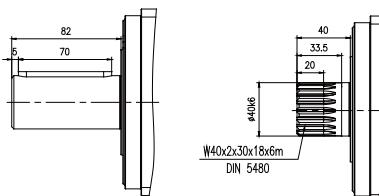
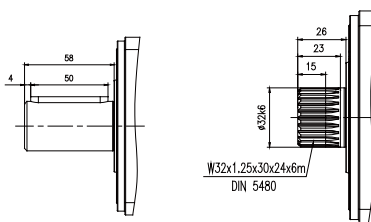
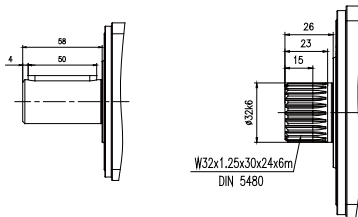
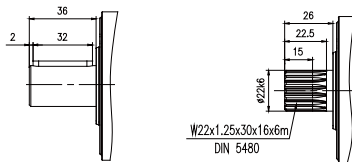
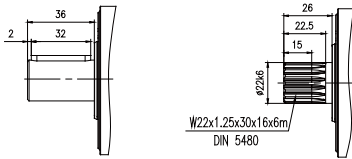
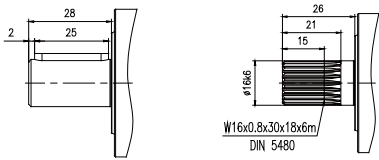
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	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102L□-B30-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B40-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B50-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B30-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B40-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B50-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B70-□□□□-MNO48M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-C10-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C12-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C16-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C20-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B70-□□□□-MNO48M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-C10-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C12-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C16-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C20-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C25-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C28-□□□□-MNO48M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C30-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C35-□□□□-MNO48M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C40-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C50-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C28-□□□□-MNO48M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C30-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C35-□□□□-MNO48M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C40-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C50-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C70-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-D10-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30 Without 10 B30(Length 3m)  
 With brake 16 (Length 5m)B50 battery box B50(Length 5m)  
 (Length 7m)B70 With 11 B70(Length 7m)  
 (Length 10m)C10 battery box C10(Length 10m)





**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 1.2kW 5.7N.m  
2.8A 2000r/min

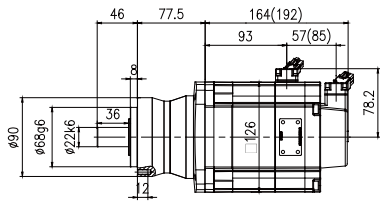
Servo motor: 1.2kW 5.7N.m  
2.8A 2000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
667	16.6	B30	3	3/1	66	108	142	200	8.11	3		3.98
500	22.1	B40	4	4/1	85	140	185	255	7.75	3		3.84
400	27.6	B50	5	5/1	85	140	185	255	7.62	3		3.07
286	38.7	B70	7	7/1	85	140	185	255	7.49	3		2.20
200	55.3	C10	10	10/1	85	120	160	200	7.43	3		1.54
667	16.6	B30	3	3/1	138	290	390	515	10.19	2		8.32
500	22.1	B40	4	4/1	185	390	515	630	8.83	2		8.36
400	27.6	B50	5	5/1	185	390	515	630	8.32	2		6.69
286	38.7	B70	7	7/1	185	390	445	630	7.86	2		4.78
200	55.3	C10	10	10/1	185	290	390	630	7.61	2		3.35
167	65.0	C12	12	12/1	215	270	270	515	7.90	3		3.31
125	86.6	C16	16	16/1	250	360	360	630	7.81	3		2.89
100	108.3	C20	20	20/1	265	360	360	630	7.65	3		2.45
80	135.4	C25	25	25/1	265	360	360	630	7.63	3		1.96
71	151.6	C28	28	28/1	285	360	360	630	7.51	3		1.88
67	162.5	C30	30	30/1	215	270	270	515	7.45	3		1.32
57	189.5	C35	35	35/1	285	360	360	630	7.50	3		1.50
50	216.6	C40	40	40/1	285	360	360	630	7.43	3		1.32
200	55.3	C10	10	10/1	345	665	750	1250	8.21	2		6.24
167	65.0	C12	12	12/1	300	530	530	1250	9.06	2		4.62
125	86.6	C16	16	16/1	480	760	760	1350	8.77	2		5.54
100	108.3	C20	20	20/1	515	760	760	1350	8.40	2		4.76
80	135.4	C25	25	25/1	515	700	700	1350	8.33	2		3.80
71	151.6	C28	28	28/1	570	760	760	1350	7.90	2		3.76
67	162.5	C30	30	30/1	300	530	530	1250	7.68	2		1.85
57	189.5	C35	35	35/1	560	700	700	1350	7.87	2		2.95
50	216.6	C40	40	40/1	610	760	760	1350	7.63	2		2.82
40	270.8	C50	50	50/1	560	700	700	1350	7.61	2		2.07
29	379.1	C70	70	70/1	610	725	725	1350	7.60	2		1.61

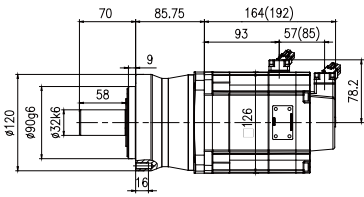
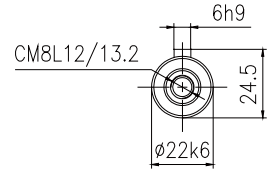
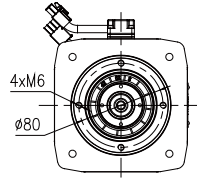
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103L□-B30-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B40-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B50-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B70-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-C10-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B30-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B40-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B50-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B70-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-C10-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C12-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C16-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C20-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C25-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C28-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C30-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C35-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C40-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105L□-C10-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C12-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C16-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C20-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C25-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C28-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C30-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C35-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C40-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C50-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C70-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18	(Length 3m)B30	Without 10	B30(Length 3m)
With brake 16	(Length 5m)B50	battery box	B50(Length 5m)
	(Length 7m)B70	With 11	B70(Length 7m)
	(Length 10m)C10	battery box	C10(Length 10m)

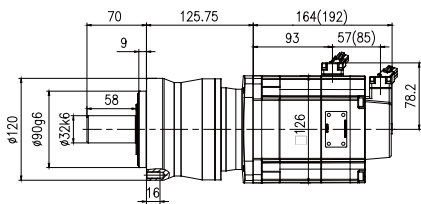
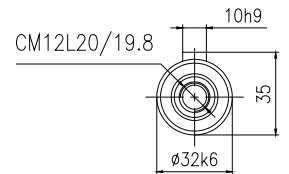
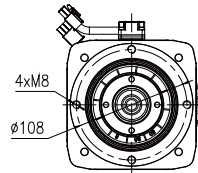
### MN063S outline dimension diagram



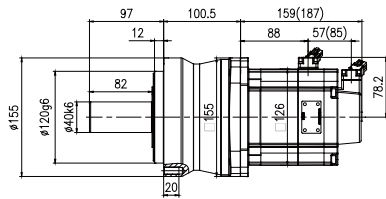
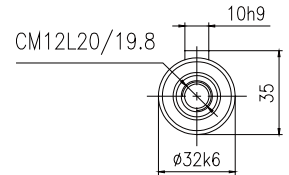
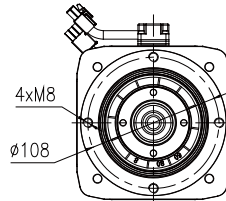
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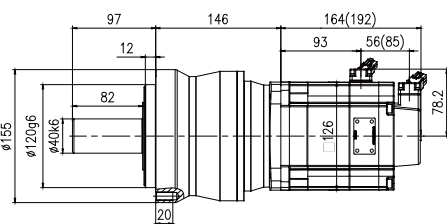
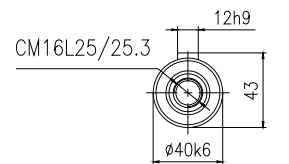
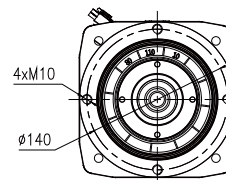
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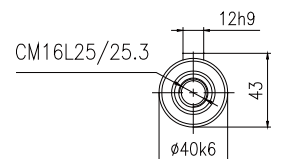
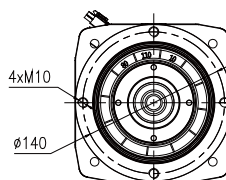
PN204L□-□□□-□□□□-□ MN063S1E20FP□



PN105L□-□□□-□□□□-□ MN063S1E20LP□



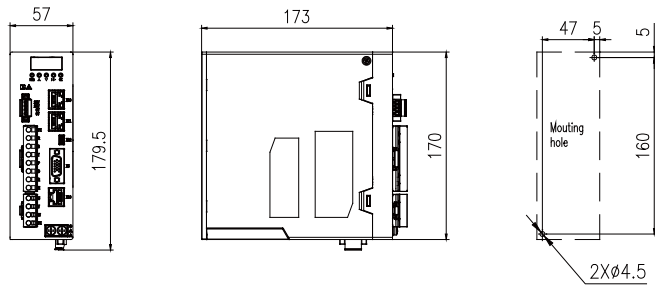
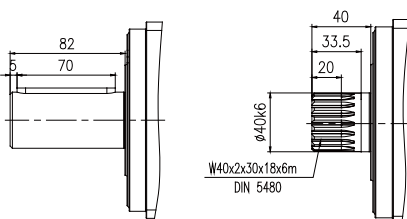
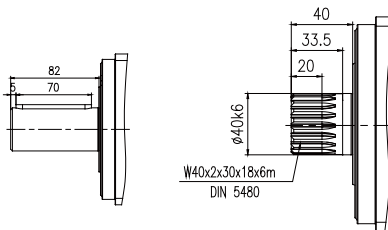
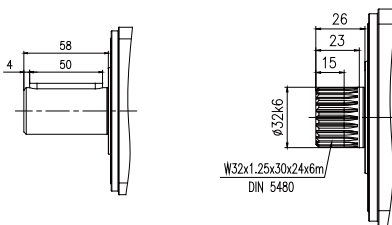
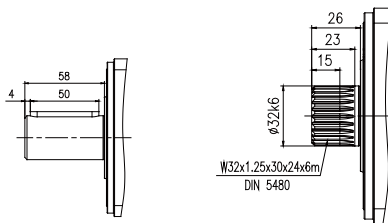
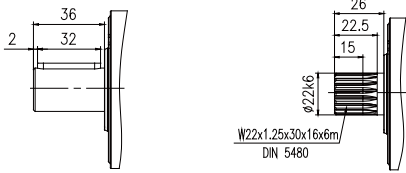
PN205L□-□□□-□□□□-□ MN063S1E20FP□



注：( ) 为带制动器尺寸

Note: () is the size with brake

**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 2.05kW 9.8N.m  
4.6A 2000r/min

Servo motor: 2.05kW 9.8N.m  
4.6A 2000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
667	28.5	B30	3	3/1	66	108	142	200	14.84	3		2.31
500	38.0	B40	4	4/1	85	140	185	255	14.48	3		2.24
400	47.5	B50	5	5/1	85	140	185	255	14.35	3		1.79
667	28.5	B30	3	3/1	138	290	390	515	16.92	2		4.84
500	38.0	B40	4	4/1	185	390	515	630	15.56	2		4.87
400	47.5	B50	5	5/1	185	390	515	630	15.05	2		3.89
286	66.5	B70	7	7/1	185	390	445	630	14.59	2		2.78
200	95.1	C10	10	10/1	185	290	390	630	14.34	2		1.95
167	111.7	C12	12	12/1	215	270	270	515	14.63	3		1.92
125	149.0	C16	16	16/1	250	360	360	630	14.54	3		1.68
100	186.2	C20	20	20/1	265	360	360	630	14.38	3		1.42
80	232.8	C25	25	25/1	265	360	360	630	14.36	3		1.14
286	66.5	B70	7	7/1	345	830	865	1350	15.77	2		5.18
200	95.1	C10	10	10/1	345	665	750	1250	14.94	2		3.63
167	111.7	C12	12	12/1	300	530	530	1250	15.79	2		2.69
125	149.0	C16	16	16/1	480	760	760	1350	15.50	2		3.22
100	186.2	C20	20	20/1	515	760	760	1350	15.13	2		2.77
80	232.8	C25	25	25/1	515	700	700	1350	15.06	2		2.21
71	260.7	C28	28	28/1	570	760	760	1350	14.63	2		2.19
67	279.3	C30	30	30/1	300	530	530	1250	14.41	2		1.07
57	325.9	C35	35	35/1	560	700	700	1350	14.60	2		1.72
50	372.4	C40	40	40/1	610	760	760	1350	14.36	2		1.64
40	465.5	C50	50	50/1	560	700	700	1350	14.34	2		1.20

此类产品交货期长

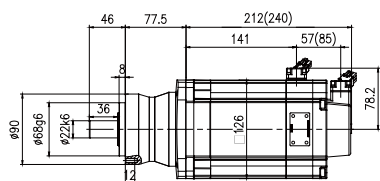
This type of product has  
a long delivery time

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103L□-B30-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B40-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B50-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B30-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B40-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B50-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B70-□□□□-MN063M1E20FP3	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-C10-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C12-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C16-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C20-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C25-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105L□-B70-□□□□-MN063M1E20LP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105L□-C10-□□□□-MN063M1E20LP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C12-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C16-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C20-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C25-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C28-□□□□-MN063M1E20FP3	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C30-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C35-□□□□-MN063M1E20FP3	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C40-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C50-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

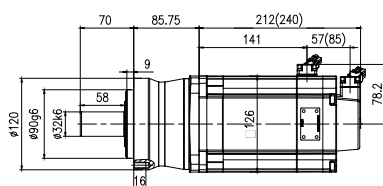
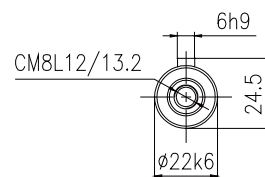
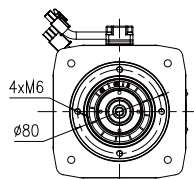
Without brake 18	(Length 3m)B30	Without 10	B30(Length 3m)
With brake 16	(Length 5m)B50	battery box	B50(Length 5m)
	(Length 7m)B70	With 11	B70(Length 7m)
	(Length 10m)C10	battery box	C10(Length 10m)



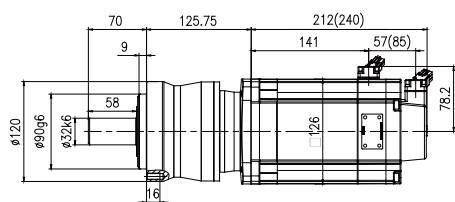
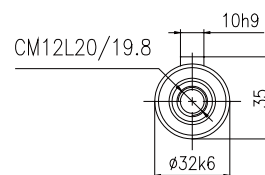
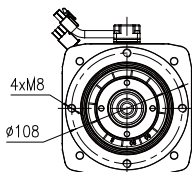
**MN063M outline dimension diagram**



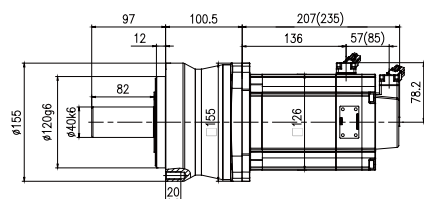
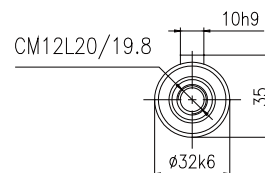
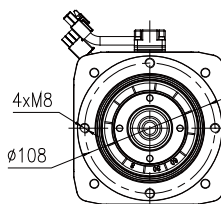
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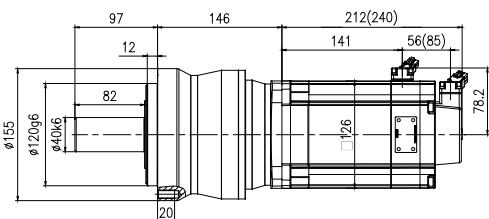
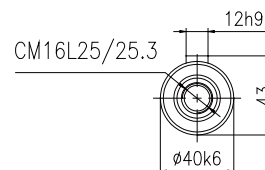
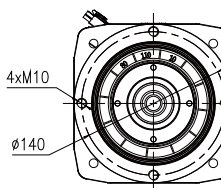
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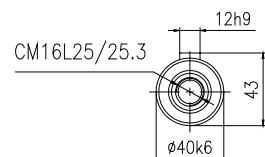
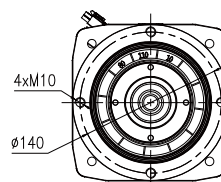
PN204L□-□□□-□□□□-**MN063M1E20FP**□



PN105L□-□□□-□□□□-**MN063M1E20LP**□



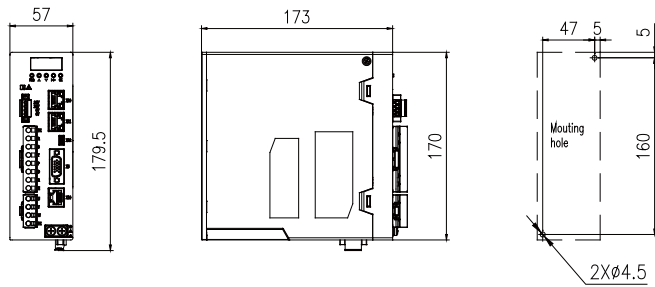
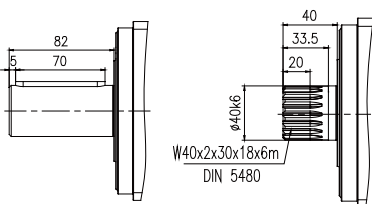
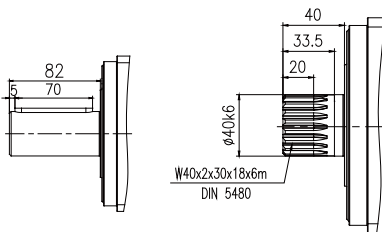
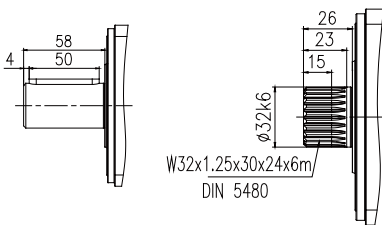
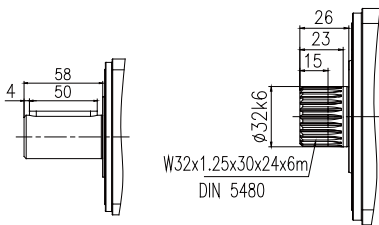
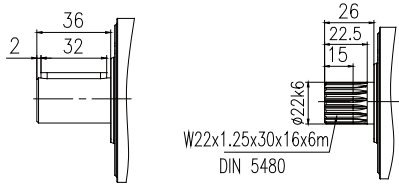
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注: ( ) 为带制动器尺寸

Note: ( ) is the size with brake

**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 2.39kW 11.4N.m  
5A 2000r/min

Servo motor: 2.39kW 11.4N.m  
5A 2000r/min

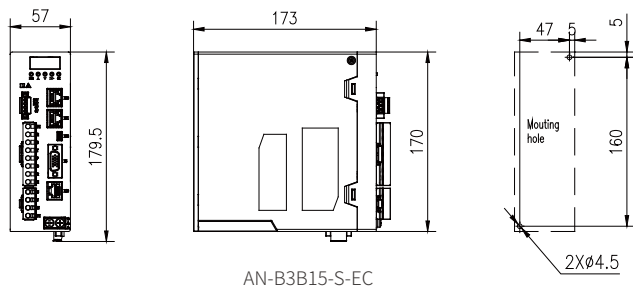
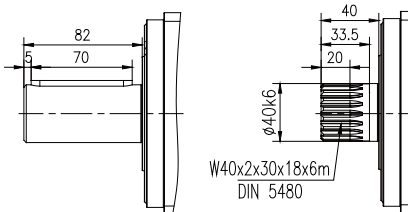
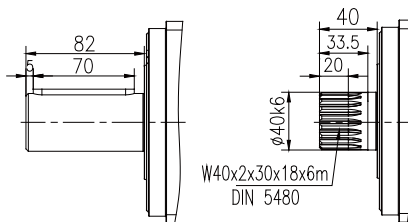
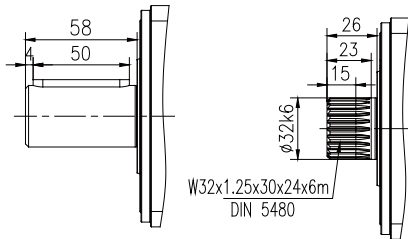
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Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
667	33.2	B30	3	3/1	138	290	390	515	28.32	2		4.16
500	44.2	B40	4	4/1	185	390	515	630	26.96	2		4.18
400	55.3	B50	5	5/1	185	390	515	630	26.45	2		3.35
286	77.4	B70	7	7/1	185	390	445	630	25.99	2		2.39
200	110.6	C10	10	10/1	185	290	390	630	25.74	2		1.67
667	33.2	B30	3	3/1	220	500	650	1250	35.07	2		6.63
500	44.2	B40	4	4/1	355	830	1100	1350	30.46	2		8.03
400	55.3	B50	5	5/1	355	830	1100	1350	28.72	2		6.42
286	77.4	B70	7	7/1	345	830	865	1350	27.17	2		4.46
200	110.6	C10	10	10/1	345	665	750	1250	26.34	2		3.12
167	130.0	C12	12	12/1	300	530	530	1250	27.19	2		2.31
125	173.3	C16	16	16/1	480	760	760	1350	26.90	2		2.77
100	216.6	C20	20	20/1	515	760	760	1350	26.53	2		2.38
80	270.8	C25	25	25/1	515	700	700	1350	26.46	2		1.90
71	303.2	C28	28	28/1	570	760	760	1350	26.03	2		1.88
57	379.1	C35	35	35/1	560	700	700	1350	26.00	2		1.48
50	433.2	C40	40	40/1	610	760	760	1350	25.76	2		1.41

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN104L□-B30-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104L□-B40-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104L□-B50-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104L□-B70-□□□□-MN080S1E20FP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104L□-C10-□□□□-MN080S1E20FP3	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B30-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B40-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B50-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B70-□□□□-MN080S1E20FP5	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-C10-□□□□-MN080S1E20FP6	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C12-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C16-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C20-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C25-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C28-□□□□-MN080S1E20FP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C35-□□□□-MN080S1E20FP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C40-□□□□-MN080S1E20FP3	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□

Without brake 18	(Length 3m)B30	Without 10	B30(Length 3m)
With brake 16	(Length 5m)B50	battery box	B50(Length 5m)
	(Length 7m)B70	With 11	B70(Length 7m)
	(Length 10m)C10	battery box	C10(Length 10m)



**Outline dimension diagram of the equipped servo driver**



伺服马达: 3.98kW 19N.m  
8.1A 2000r/min

Servo motor: 3.98kW 19N.m  
8.1A 2000r/min

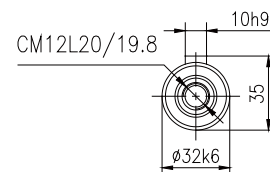
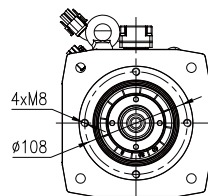
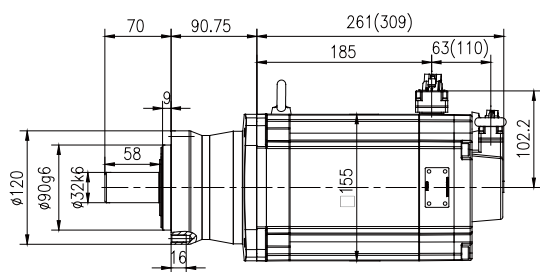
齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
667	55.3	B30	3	3/1	138	290	390	515	51.72	2		2.50
500	73.7	B40	4	4/1	185	390	515	630	50.36	2		2.51
400	92.2	B50	5	5/1	185	390	515	630	49.85	2		2.01
286	129.0	B70	7	7/1	185	390	445	630	49.39	2		1.43
667	55.3	B30	3	3/1	220	500	650	1250	58.47	2		3.98
500	73.7	B40	4	4/1	355	830	1100	1350	53.86	2		4.82
400	92.2	B50	5	5/1	355	830	1100	1350	52.12	2		3.85
286	129.0	B70	7	7/1	345	830	865	1350	50.57	2		2.67
200	184.3	C10	10	10/1	345	665	750	1250	49.74	2		1.87
167	216.6	C12	12	12/1	300	530	530	1250	50.59	2		1.39
125	288.8	C16	16	16/1	480	760	760	1350	50.30	2		1.66
100	361.0	C20	20	20/1	515	760	760	1350	49.93	2		1.43
80	451.3	C25	25	25/1	515	700	700	1350	49.86	2		1.14
71	505.4	C28	28	28/1	570	760	760	1350	49.43	2		1.13

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN104L□-B30-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104L□-B40-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104L□-B50-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104L□-B70-□□□□-MN080M1E20FP2	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B30-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B40-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B50-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-B70-□□□□-MN080M1E20FP4	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105L□-C10-□□□□-MN080M1E20FP5	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C12-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C16-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C20-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C25-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205L□-C28-□□□□-MN080M1E20FP2	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□

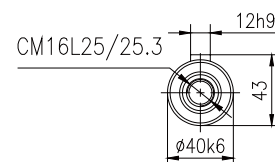
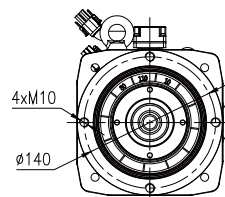
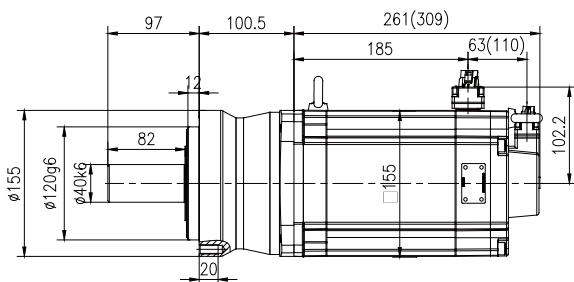
Without brake 18 (Length 3m)B30 Without 10 B30(Length 3m)  
 battery box  
 With brake 16 (Length 5m)B50 B50(Length 5m)  
 (Length 7m)B70 With 11 B70(Length 7m)  
 battery box (Length 10m)C10 C10(Length 10m)



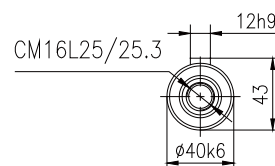
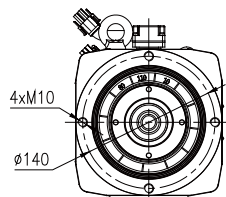
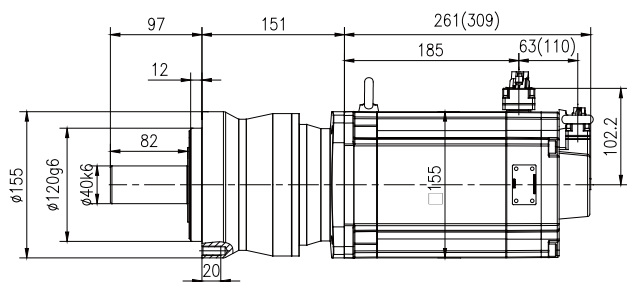
### MN080M outline dimension diagram



PN104L□-□□□-□□□□-MN080M1E20FP□



PN105L□-□□□-□□□□-MN080M1E20FP□

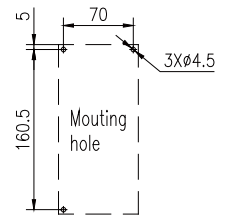
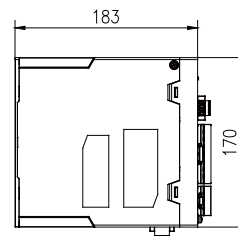
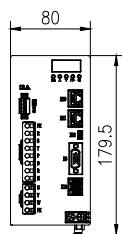
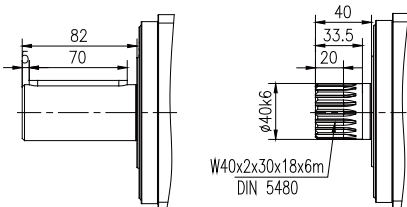
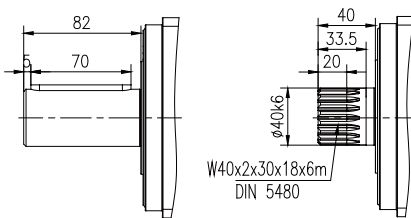
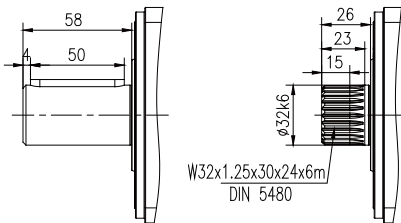


PN205B□-□□□-□□□□-MN080M1E20FP□

注：( ) 为带制动器尺寸

Note: ( ) is the size with brake

**Outline dimension diagram of the equipped servo driver**



AN-B3B30S-EC

### 4 输出轴允许的轴向力和径向力

### 4 Permissible axial and radial forces on the output shaft

输出轴 载荷	Output shaft load	代号 Code	单位 Unit	PN101L	PN102L	PN103L	PN104L	PN105L
					PN202L	PN203L	PN204L	PN205L
20000h 的径向力	Radial force for 20000h	Fr20000h	N	600	1300	2050	2500	3500
20000h 的轴向力	Axial force for 20000h	Fa20000h		250	500	750	1050	1750
30000h 的径向力	Radial force for 30000h	Fr30000h		500	1150	1750	2200	3050
30000h 的轴向力	Axial force for 20000h	Fa30000h		200	400	650	900	1550
20000h 的侧倾力矩	Tilting moment for 20000h	Mk20000h	Nm	30	93	173	266	464
30000h 的侧倾力矩	Tilting moment for 30000h	Mk30000h		26	81	151	232	405

### 5 重量表

### 5 Weight table

PN(L) 行星齿轮箱重量表 (Kg)				PN(L) Current Planetary Weight table (kg)		
机座号	Frame size	PN101L	PN102L	PN103L	PN104L	PN105L
重量	Weight	1.1	1.8	3.5	7.5	14.6
机座	Frame size	PN202L		PN203L	PN204L	PN205L
重量	Weight	2.1		4.2	8.9	17.9

直连MN伺服马达重量表 (Kg)						Directly connected MN servo motor weight table (Kg)					
机座号	Frame size	MN028S1	MN028M1	MN036S1	MN036M1	MN048S1	MN048M1	MN063S1	MN063M1	MN080S1	MN080M1
额定 功率 (KW)	Rated power (KW)	0.28	0.42	0.47	0.75	1	1.5	1.2	2.05	2.39	3.98
不带 制动	Without brake	1.8	2.4	2.7	3.9	4.5	7	7.1	10.9	13.6	21.9
带制动	With brake	2	2.7	3.1	4.3	5.2	7.7	8	11.8	14.3	23.9





## PN...B-MN行星 通用齿轮伺服马达 6 型号表示方法

## PN...B-MN Planetary Current Servo Gearmotor 6 Model representation method

### 产品分类代号

PN=通用型

### 行星齿轮级数

1=1级  
2=2级

### 机座号

01/02/03/04/05/06/07

### 产品系列代号

B=法兰

### 输出轴形式代号

A=光滑实心轴  
B=平键实心轴  
C=外花键实心轴

### 公称速比代号

### 安装方位

B5/V1/V3/S1

### 回程间隙

S=标准间隙

### 输出轴轴承配置

1=深沟球轴承+深沟球轴承  
(输出轴承配置1典型应用  
场合: 联轴器、径向力较小  
的直齿轮等)  
2=角接触球轴承+圆锥滚子  
轴承 (输出轴承配置2典型  
应用场合: 有径向力, 有轴  
向力的斜齿轮等)

### 润滑油代号

1=合成润滑油  
2=合成润滑脂  
3=食品级润滑油  
4=食品级润滑脂

### Product classification code

PN=Current type

### Planetary gear series

1=1stage  
2=2stage

### Frame size

01/02/03/04/05/06/07

### Product series code

B=Square flange

### Output shaft form code

A=Smooth solid shaft  
B=Flat key solid shaft  
C=External spline solid shaft

### Nominal speed ratio code

### Installation orientation

B5/V1/V3/S1

### Return clearance

S=Standard clearance

### Output shaft bearing configuration

1=Deep groove ball bearing+Deep groove ball  
bearing (Output bearing configuration 1 Typical  
application scenarios: Couplings, spur gears with  
small radial force, etc.)  
2= Angular contact ball bearing + tapered roller  
bearing (Output bearing configuration 2 Typical  
application scenarios: helical gear with radial  
force, axial force, etc..)

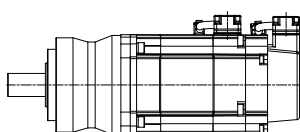
### Lubricating oil code

1=Synthetic lubricating oil  
2=Synthetic lubricating grease  
3=Food grade lubricating oil  
4=Food grade lubricating grease

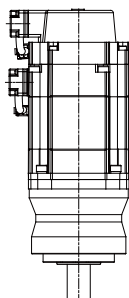
PN 2 03 B A - C20 - B5 S 1 1 -

## 7 PN...B-MN安装方位

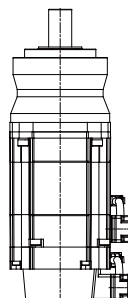
## 7 PN...B-MN Installation orientation



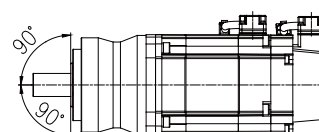
B5-水平 B5 level



V1-垂直  
(输出轴  
向下) V1-Vertical  
(output  
axis down)



V3-垂直  
(输出轴  
向上) V3-Vertical  
(output  
axis up)



S1-可以从  
水平到翻  
转±90° S1-can flip  
from  
horizontal  
to ±90°

MN 048S 1 E30 F P 1 - N 3 A 0 5 - 1 2 1

连接器位置

连接器类型

2=规格2

连接器方位

防护等级

5=IP65

热保护

0=无绕组保护

制动器

N=无制动器

A=永磁制动器

编码器

3=编码器

冷却方式

N=自然冷却

轴孔径代号

1、2、3...

轴伸形式P

法兰形式F/L

额定转速代号

E20=2000r/min

E30=3000r/min

结构形式

1=紧凑型

机座号

三相交流同步  
伺服马达

Connector location

Connector type

2=specifications2

Connector orientation

Protection class

5=IP65

Thermal protection

0=Without thermal protection

Brake

N=Without brake

A=With brake

Encoder

3=Encoder

Cooling method

N=Natural cooling

Axis aperture code

1、2、3...

Axis extension form P

Flange form F/L

Rated speed code

E20=2000r/min

E30=3000r/min

Structure type

1=Compact

Frame size

Three Phase AC  
Synchronous  
Servomotor

## 8 PN...B-MN传动能力 表和外形尺寸图

## 8 PN..B-MN Transmission capacity table and external dimension diagram

伺服马达: 0.28kW 0.9N.m  
0.9A 3000r/min

Servo motor: 0.28kW 0.9N.m  
0.9A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
1000	2.6	B30	3	3/1	7	15	19	35	0.18	5		2.67
750	3.5	B40	4	4/1	11	22	28	40	0.16	5		3.15
600	4.4	B50	5	5/1	11	22	28	40	0.16	5		2.52
429	6.1	B70	7	7/1	11	22	28	40	0.155	5		1.80
429	6.1	B70	7	7/1	28	52	70	110	0.18	4		4.58
300	8.7	C10	10	10/1	28	40	55	105	0.17	4		3.21
250	10.3	C12	12	12/1	32	40	50	100	0.17	4		3.12
188	13.7	C16	16	16/1	42	52	60	110	0.17	4		3.07
150	17.1	C20	20	20/1	42	52	60	110	0.16	4		2.46
120	21.4	C25	25	25/1	42	52	70	110	0.16	4		1.96
107	23.9	C28	28	28/1	42	52	60	110	0.16	4		1.75
100	25.7	C30	30	30/1	32	40	50	100	0.15	4		1.25
86	29.9	C35	35	35/1	42	52	70	110	0.16	4		1.40
75	34.2	C40	40	40/1	42	52	60	110	0.15	4		1.23
107	23.9	C28	28	28/1	105	132	132	255	0.19	4		4.39
100	25.7	C30	30	30/1	88	110	110	200	0.17	4		3.43
86	29.9	C35	35	35/1	110	138	165	255	0.19	4		3.68
75	34.2	C40	40	40/1	105	132	132	255	0.16	4		3.07
60	42.8	C50	50	50/1	110	138	165	255	0.16	4		2.57
43	59.9	C70	70	70/1	95	118	118	255	0.16	4		1.59

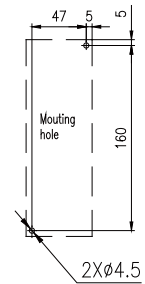
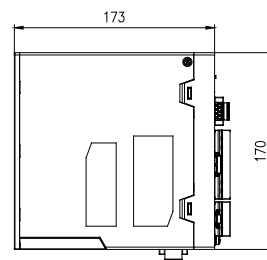
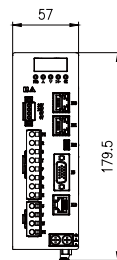
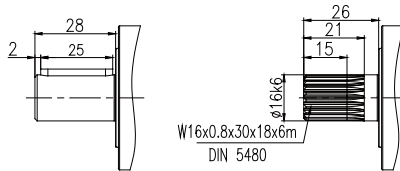
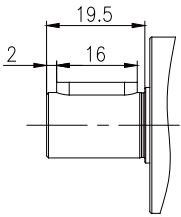
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101B□-B30-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B40-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B50-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B70-□□□□-MN028S1E30FP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B70-□□□□-MN028S1E30LP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-C10-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C12-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C16-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C20-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C25-□□□□-MN028S1E30FP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C28-□□□□-MN028S1E30FP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C30-□□□□-MN028S1E30FP3	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C35-□□□□-MN028S1E30FP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C40-□□□□-MN028S1E30FP3	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C28-□□□□-MN028S1E30LP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C30-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C35-□□□□-MN028S1E30LP1	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C40-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C50-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C70-□□□□-MN028S1E30LP2	10010	20010	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18	(Length 3m)B30	Without 10	B30(Length 3m)
With brake 16	(Length 5m)B50	battery box	B50(Length 5m)
	(Length 7m)B70	With 11	B70(Length 7m)
	(Length 10m)C10	battery box	C10(Length 10m)

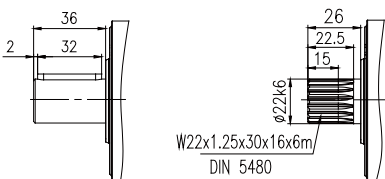
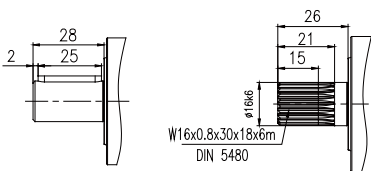




**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC



伺服马达: 0.42kW 1.3N.m  
1A 3000r/min

Servo motor: 0.42kW 1.3N.m  
1A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
1000	3.8	B30	3	3/1	7	15	19	35	0.28	5		1.85
750	5.0	B40	4	4/1	11	22	28	40	0.26	5		2.18
600	6.3	B50	5	5/1	11	22	28	40	0.26	5		1.74
429	8.8	B70	7	7/1	28	52	70	110	0.28	4		3.17
300	12.6	C10	10	10/1	28	40	55	105	0.27	4		2.22
250	14.8	C12	12	12/1	32	40	50	100	0.27	4		2.16
188	19.8	C16	16	16/1	42	52	60	110	0.27	4		2.13
150	24.7	C20	20	20/1	42	52	60	110	0.26	4		1.70
120	30.9	C25	25	25/1	42	52	70	110	0.26	4		1.36
107	34.6	C28	28	28/1	105	132	132	255	0.29	4		3.04
100	37.1	C30	30	30/1	88	110	110	200	0.27	4		2.38
86	43.2	C35	35	35/1	110	138	165	255	0.29	4		2.54
75	49.4	C40	40	40/1	105	132	132	255	0.26	4		2.13
60	61.8	C50	50	50/1	110	138	165	255	0.26	4		1.78
43	86.5	C70	70	70/1	95	118	118	255	0.26	4		1.10

此类产品交货期长

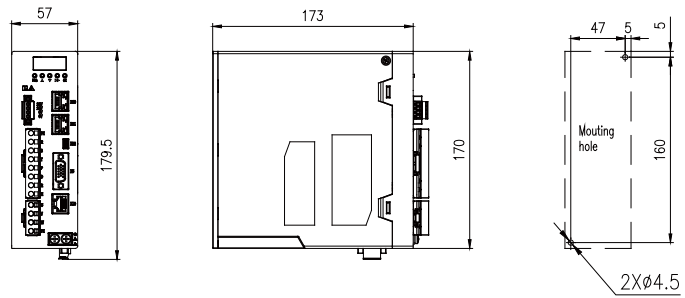
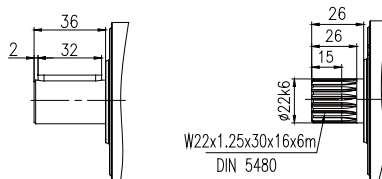
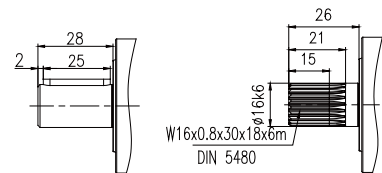
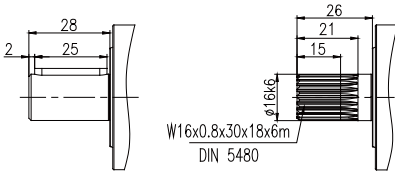
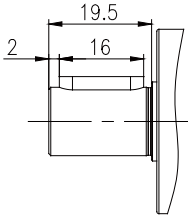
This type of product has  
a long delivery time

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101B□-B30-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B40-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B50-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B70-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-C10-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C12-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C16-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C20-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C25-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C28-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C30-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C35-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C40-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C50-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C70-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30 Without 10 B30(Length 3m)  
 battery box  
 With brake 16 (Length 5m)B50 B50(Length 5m)  
 (Length 7m)B70 With 11 B70(Length 7m)  
 battery box C10(Length 10m)  
 (Length 10m)C10



**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC

伺服马达: 0.47kW 1.5N.m  
1.15A 3000r/min

Servo motor: 0.47kW 1.5N.m  
1.15A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
1000	4.4	B30	3	3/1	7	15	19	35	0.77	5		1.60
750	5.8	B40	4	4/1	11	22	28	40	0.75	5		1.89
600	7.3	B50	5	5/1	11	22	28	40	0.75	5		1.51
1000	4.4	B30	3	3/1	22	40	55	100	0.92	4		5.04
750	5.8	B40	4	4/1	28	52	70	110	0.84	4		4.81
600	7.3	B50	5	5/1	28	52	70	110	0.8	4		3.85
429	10.2	B70	7	7/1	28	52	70	110	0.77	4		2.75
300	14.6	C10	10	10/1	28	40	55	105	0.76	4		1.92
250	17.1	C12	12	12/1	32	40	50	100	0.76	4		1.87
188	22.8	C16	16	16/1	42	52	60	110	0.76	4		1.84
150	28.5	C20	20	20/1	42	52	60	110	0.75	4		1.47
120	35.6	C25	25	25/1	42	52	70	110	0.75	4		1.18
300	14.3	C10	10	10/1	85	120	160	200	0.81	3		5.96
250	17.1	C12	12	12/1	88	110	110	200	0.87	4		5.15
188	22.8	C16	16	16/1	105	132	132	255	0.84	4		4.61
150	28.5	C20	20	20/1	105	132	132	255	0.82	4		3.68
120	35.6	C25	25	25/1	110	138	165	255	0.81	4		3.09
107	39.9	C28	28	28/1	105	132	132	255	0.78	4		2.63
100	42.8	C30	30	30/1	88	110	110	200	0.76	4		2.06
86	49.9	C35	35	35/1	110	138	165	255	0.78	4		2.21
75	57.0	C40	40	40/1	105	132	132	255	0.75	4		1.84
60	71.3	C50	50	50/1	110	138	165	255	0.75	4		1.54
100	42.8	C30	30	30/1	215	270	270	515	0.83	3		5.03
75	57.0	C40	40	40/1	285	360	360	630	0.81	3		5.00
60	71.3	C50	50	50/1	285	360	360	630	0.81	3		4.00
43	99.8	C70	70	70/1	285	360	360	630	0.81	3		2.86
30	142.5	D10	100	100/1	215	270	270	630	0.80	3		1.51

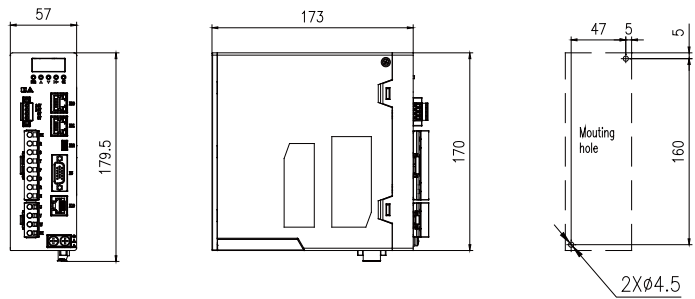
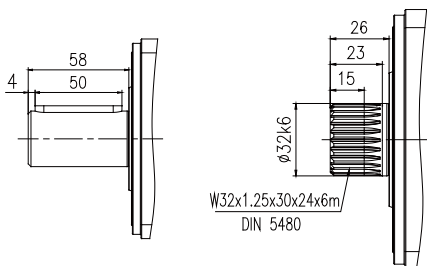
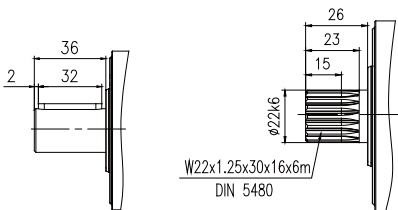
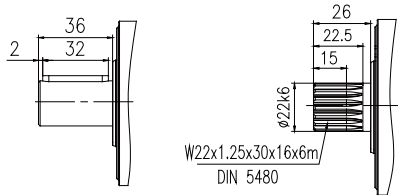
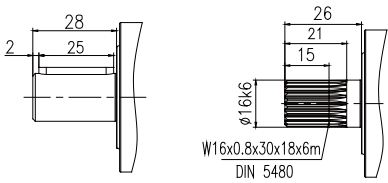
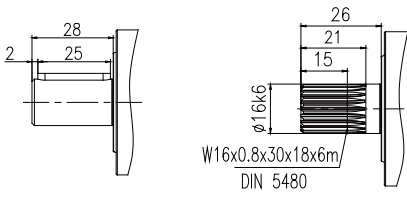
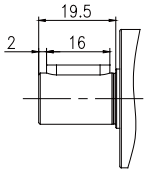
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101B□-B30-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B40-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B50-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B30-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B40-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B50-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B70-□□□□-MN036S1E30FP3	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-C10-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C12-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C16-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C20-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C25-□□□□-MN036S1E30FP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-C10-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C12-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C16-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C20-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C25-□□□□-MN036S1E30FP2	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C28-□□□□-MN036S1E30FP3	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C30-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C35-□□□□-MN036S1E30FP3	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C40-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C50-□□□□-MN036S1E30FP4	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C30-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C40-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C50-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C70-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-D10-□□□□-MN036S1E30LP1	10110	20110	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30      Without 10 B30(Length 3m)  
 battery box  
 With brake 16 (Length 5m)B50      B50(Length 5m)  
 (Length 7m)B70      With 11 B70(Length 7m)  
 battery box  
 (Length 10m)C10      C10(Length 10m)





**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC

伺服马达: 0.75kW 2.4N.m  
1.6A 3000r/min

Servo motor: 0.75kW 2.4N.m  
1.6A 3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
1000	7.0	B30	3	3/1	22	40	55	100	1.59	4		3.15
750	9.3	B40	4	4/1	28	52	70	110	1.51	4		3.01
600	11.6	B50	5	5/1	28	52	70	110	1.47	4		2.41
429	16.3	B70	7	7/1	28	52	70	110	1.44	4		1.72
300	23.3	C10	10	10/1	28	40	55	105	1.43	4		1.20
429	16.3	B70	7	7/1	85	140	185	255	1.54	3		5.22
300	23.3	C10	10	10/1	85	120	160	200	1.48	3		3.65
250	27.4	C12	12	12/1	88	110	110	200	1.54	4		3.22
188	36.5	C16	16	16/1	105	132	132	255	1.51	4		2.88
150	45.6	C20	20	20/1	105	132	132	255	1.49	4		2.30
120	57.0	C25	25	25/1	110	138	165	255	1.48	4		1.93
107	63.8	C28	28	28/1	105	132	132	255	1.45	4		1.64
100	68.4	C30	30	30/1	88	110	110	200	1.43	4		1.29
86	79.8	C35	35	35/1	110	138	165	255	1.45	4		1.38
75	91.2	C40	40	40/1	105	132	132	255	1.42	4		1.15
107	63.8	C28	28	28/1	285	360	360	630	1.56	3		4.46
100	68.4	C30	30	30/1	215	270	270	515	1.50	3		3.14
86	79.8	C35	35	35/1	285	360	360	630	1.55	3		3.57
75	91.2	C40	40	40/1	285	360	360	630	1.48	3		3.13
60	114.0	C50	50	50/1	285	360	360	630	1.48	3		2.50
43	159.6	C70	70	70/1	285	360	360	630	1.48	3		1.79

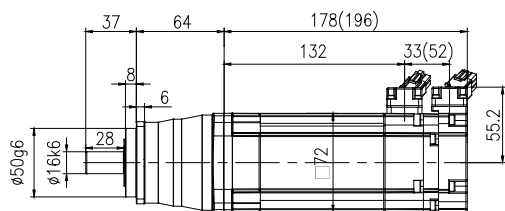
此类产品交货期长

This type of product has  
a long delivery time

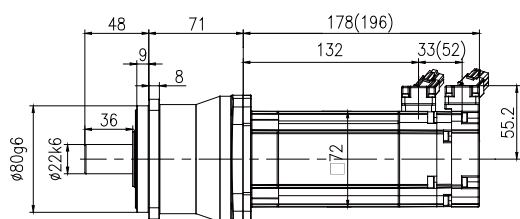
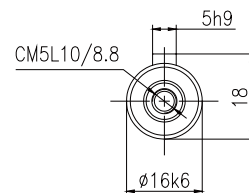
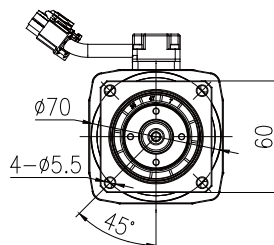
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
	Servo motor ID			Servo motor cable configuration order number	
Order number of planetary precision gear servo motor	Without brake	With brake	Servo driver order number	Servo motor power line	Servo motor signal line
PN102B□-B30-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B40-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B50-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B70-□□□□-MN036M1E30FP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-C10-□□□□-MN036M1E30FP3	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B70-□□□□-MN036M1E30LP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-C10-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C12-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C16-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C20-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C25-□□□□-MN036M1E30FP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C28-□□□□-MN036M1E30FP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C30-□□□□-MN036M1E30FP3	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C35-□□□□-MN036M1E30FP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C40-□□□□-MN036M1E30FP3	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C28-□□□□-MN036M1E30LP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C30-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C35-□□□□-MN036M1E30LP1	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C40-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C50-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C70-□□□□-MN036M1E30LP2	10112	20112	AN-B3A75-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18	(Length 3m)B30	Without battery box 10	B30(Length 3m)
With brake 16	(Length 5m)B50	With battery box 11	B50(Length 5m)
	(Length 7m)B70		B70(Length 7m)
	(Length 10m)C10		C10(Length 10m)

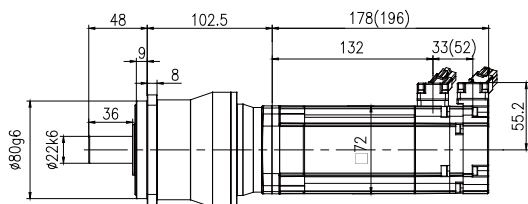
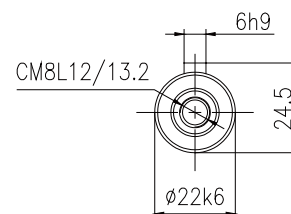
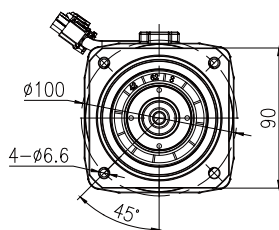
### MN036M outline dimension diagram



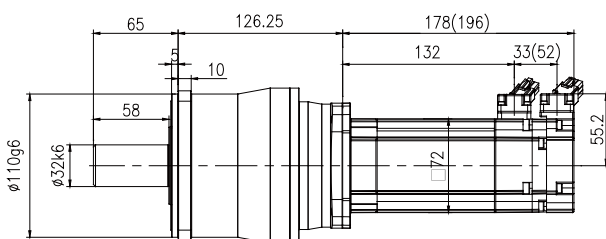
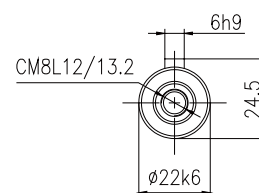
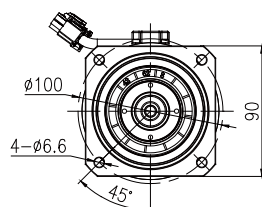
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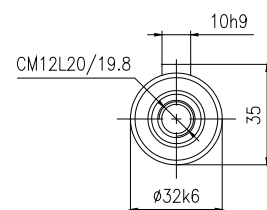
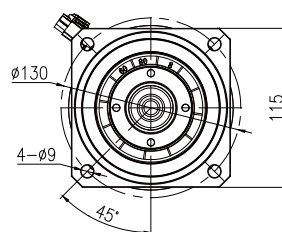
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PN203B□-□□□-□□□□-MN036M1E30FP□



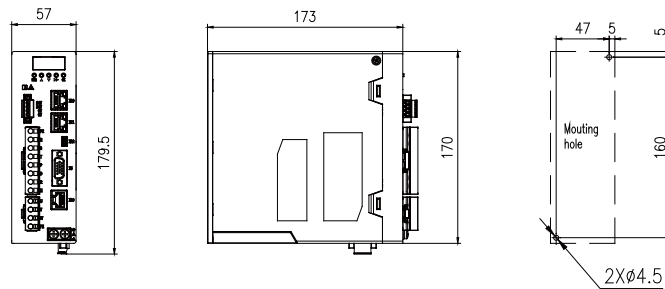
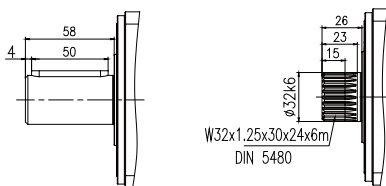
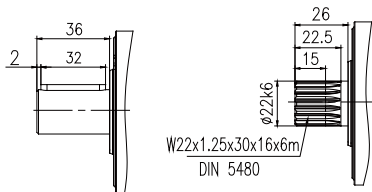
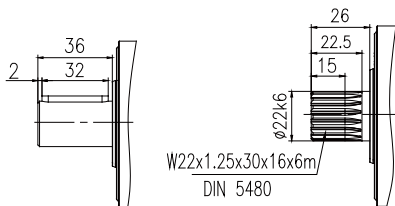
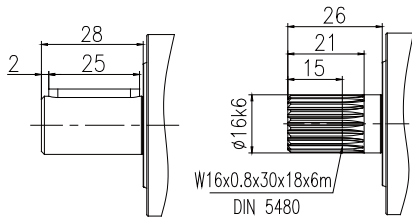
PN204B□-□□□-□□□□-MN036M1E30LP□



注：( ) 为带制动器尺寸

Note: ( ) is the size with brake

**Outline dimension diagram of the equipped servo driver**



AN-B3A75-S-EC

伺服马达: 1kW 3.2N.m 2.2A  
3000r/min

Servo motor: 1kW 3.2N.m 2.2A  
3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
1000	9.3	B30	3	3/1	22	40	55	100	2.71	4		2.36
750	12.4	B40	4	4/1	28	52	70	110	2.63	4		2.26
600	15.5	B50	5	5/1	28	52	70	110	2.59	4		1.80
1000	9.3	B30	3	3/1	66	108	142	200	3.28	3		7.09
750	12.4	B40	4	4/1	85	140	185	255	2.92	3		6.85
600	15.5	B50	5	5/1	85	140	185	255	2.79	3		5.48
429	21.7	B70	7	7/1	85	140	185	255	2.66	3		3.91
300	31.0	C10	10	10/1	85	120	160	200	2.60	3		2.74
250	36.5	C12	12	12/1	88	110	110	200	2.66	4		2.41
188	48.6	C16	16	16/1	105	132	132	255	2.63	4		2.16
150	60.8	C20	20	20/1	105	132	132	255	2.61	4		1.73
120	76.0	C25	25	25/1	110	138	165	255	2.60	4		1.45
300	31.0	C10	10	10/1	185	290	390	630	2.78	2		5.96
250	36.5	C12	12	12/1	215	270	270	515	3.07	3		5.89
188	48.6	C16	16	16/1	250	360	360	630	2.98	3		5.14
150	60.8	C20	20	20/1	265	360	360	630	2.82	3		4.36
120	76.0	C25	25	25/1	265	360	360	630	2.80	3		3.49
107	85.1	C28	28	28/1	285	360	360	630	2.68	3		3.35
100	91.2	C30	30	30/1	215	270	270	515	2.62	3		2.36
86	106.4	C35	35	35/1	285	360	360	630	2.67	3		2.68
75	121.6	C40	40	40/1	285	360	360	630	2.60	3		2.34
60	152.0	C50	50	50/1	285	360	360	630	2.60	3		1.88
43	212.8	C70	70	70/1	285	360	360	630	2.60	3		1.34
107	85.1	C28	28	28/1	570	760	760	1350	3.07	2		6.70
100	91.2	C30	30	30/1	300	530	530	1250	2.85	2		3.29
86	106.4	C35	35	35/1	560	700	700	1350	3.04	2		5.26
75	121.6	C40	40	40/1	610	760	760	1350	2.80	2		5.02
60	152.0	C50	50	50/1	560	700	700	1350	2.78	2		3.68
43	212.8	C70	70	70/1	610	725	725	1350	2.77	2		2.87
30	304.0	D10	100	100/1	490	590	590	1250	2.76	2		1.61

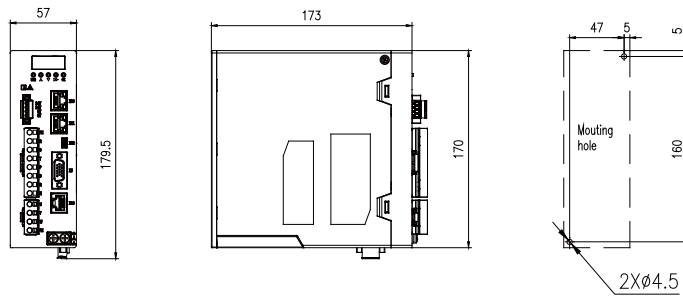
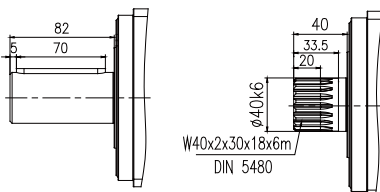
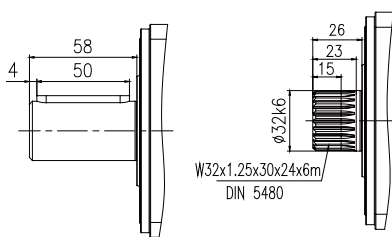
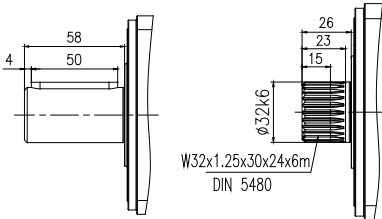
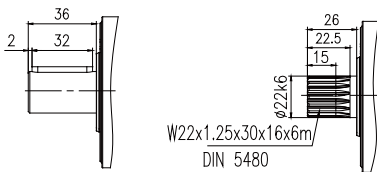
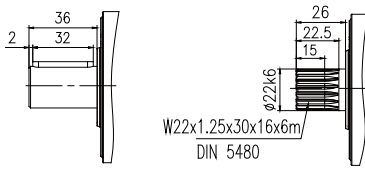
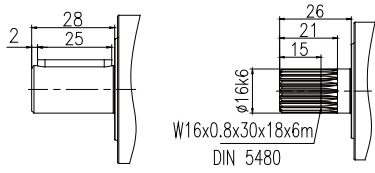
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	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102B□-B30-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B40-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B50-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B30-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B40-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B50-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B70-□□□□-MN048S1E30FP3	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-C10-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C12-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C16-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C20-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C25-□□□□-MN048S1E30FP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C12-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C16-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C20-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C25-□□□□-MN048S1E30FP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C28-□□□□-MN048S1E30FP3	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C30-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C35-□□□□-MN048S1E30FP3	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C40-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C50-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C70-□□□□-MN048S1E30FP4	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MN048S1E30LP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C30-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MN048S1E30LP1	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C50-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C70-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-D10-□□□□-MN048S1E30LP2	10210	20210	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30 Without 10 B30(Length 3m)  
 With brake 16 (Length 5m)B50 battery box B50(Length 5m)  
 (Length 7m)B70 With 11 B70(Length 7m)  
 (Length 10m)C10 battery box C10(Length 10m)





**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 1.5kW 4.8N.m 3A  
3000r/min

Servo motor: 1.5kW 4.8N.m 3A  
3000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
1000	14.0	B30	3	3/1	22	40	55	100	5.03	4		1.58
750	18.6	B40	4	4/1	28	52	70	110	4.95	4		1.50
600	23.3	B50	5	5/1	28	52	70	110	4.91	4		1.20
1000	14.0	B30	3	3/1	66	108	142	200	5.60	3		4.73
750	18.6	B40	4	4/1	85	140	185	255	5.24	3		4.56
600	23.3	B50	5	5/1	85	140	185	255	5.11	3		3.65
429	32.6	B70	7	7/1	85	140	185	255	4.98	3		2.61
300	46.6	C10	10	10/1	85	120	160	200	4.92	3		1.83
250	54.7	C12	12	12/1	88	110	110	200	4.98	4		1.61
188	73.0	C16	16	16/1	105	132	132	255	4.95	4		1.44
150	91.2	C20	20	20/1	105	132	132	255	4.93	4		1.15
429	32.6	B70	7	7/1	185	390	445	630	5.35	2		5.68
300	46.6	C10	10	10/1	185	290	390	630	5.10	2		3.97
250	54.7	C12	12	12/1	215	270	270	515	5.39	3		3.93
188	73.0	C16	16	16/1	250	360	360	630	5.30	3		3.43
150	91.2	C20	20	20/1	265	360	360	630	5.14	3		2.91
120	114.0	C25	25	25/1	265	360	360	630	5.12	3		2.32
107	127.7	C28	28	28/1	285	360	360	630	5.00	3		2.23
100	136.8	C30	30	30/1	215	270	270	515	4.94	3		1.57
86	159.6	C35	35	35/1	285	360	360	630	4.99	3		1.79
75	182.4	C40	40	40/1	285	360	360	630	4.92	3		1.56
60	228.0	C50	50	50/1	285	360	360	630	4.92	3		1.25
107	127.7	C28	28	28/1	570	760	760	1350	5.39	2		4.46
100	136.8	C30	30	30/1	300	530	530	1250	5.17	2		2.19
86	159.6	C35	35	35/1	560	700	700	1350	5.36	2		3.51
75	182.4	C40	40	40/1	610	760	760	1350	5.12	2		3.34
60	228.0	C50	50	50/1	560	700	700	1350	5.10	2		2.46
43	319.2	C70	70	70/1	610	725	725	1350	5.09	2		1.91
30	456.0	D10	100	100/1	490	590	590	1250	5.08	2		1.07

此类产品交货期长

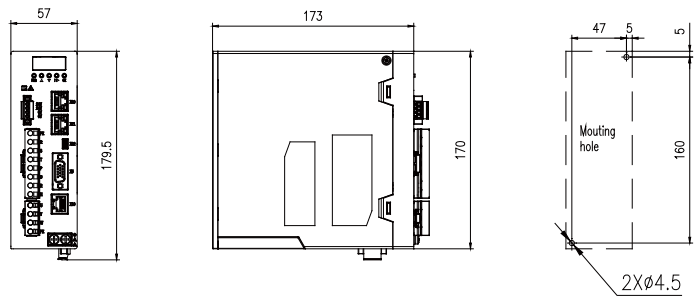
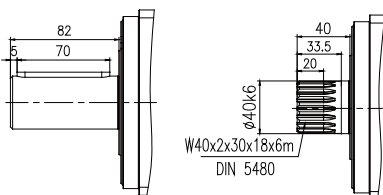
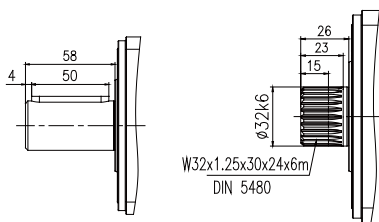
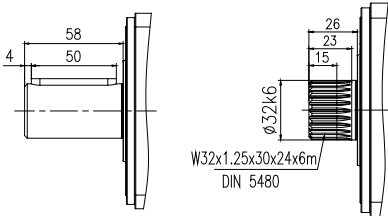
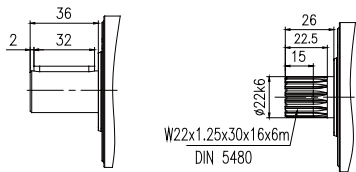
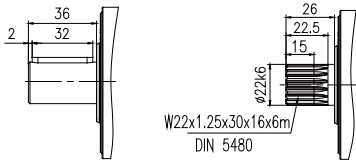
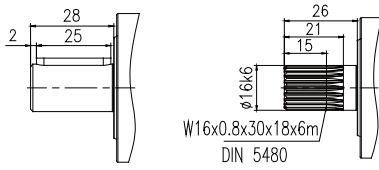
This type of product has  
a long delivery time

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
	Servo motor ID			Servo motor cable configuration order number	
Order number of planetary precision gear servo motor	Without brake	With brake	Servo driver order number	Servo motor power line	Servo motor signal line
PN102B□-B30-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B40-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B50-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B30-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B40-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B50-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B70-□□□□-MNO48M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-C10-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C12-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C16-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C20-□□□□-MNO48M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MNO48M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C12-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C16-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C20-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C25-□□□□-MNO48M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C28-□□□□-MNO48M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C30-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C35-□□□□-MNO48M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C40-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C50-□□□□-MNO48M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MNO48M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C30-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MNO48M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C50-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C70-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-D10-□□□□-MNO48M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18	(Length 3m)B30	Without battery box 10	B30(Length 3m)
With brake 16	(Length 5m)B50	With battery box 11	B50(Length 5m)
	(Length 7m)B70		B70(Length 7m)
	(Length 10m)C10		C10(Length 10m)



**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 1.2kW 5.7N.m  
2.8A 2000r/min

Servo motor: 1.2kW 5.7N.m  
2.8A 2000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
667	16.6	B30	3	3/1	66	108	142	200	8.11	3		3.98
500	22.1	B40	4	4/1	85	140	185	255	7.75	3		3.84
400	27.6	B50	5	5/1	85	140	185	255	7.62	3		3.07
286	38.7	B70	7	7/1	85	140	185	255	7.49	3		2.20
200	55.3	C10	10	10/1	85	120	160	200	7.43	3		1.54
667	16.6	B30	3	3/1	138	290	390	515	10.19	2		8.32
500	22.1	B40	4	4/1	185	390	515	630	8.83	2		8.36
400	27.6	B50	5	5/1	185	390	515	630	8.32	2		6.69
286	38.7	B70	7	7/1	185	390	445	630	7.86	2		4.78
200	55.3	C10	10	10/1	185	290	390	630	7.61	2		3.35
167	65.0	C12	12	12/1	215	270	270	515	7.90	3		3.31
125	86.6	C16	16	16/1	250	360	360	630	7.81	3		2.89
100	108.3	C20	20	20/1	265	360	360	630	7.65	3		2.45
80	135.4	C25	25	25/1	265	360	360	630	7.63	3		1.96
71	151.6	C28	28	28/1	285	360	360	630	7.51	3		1.88
67	162.5	C30	30	30/1	215	270	270	515	7.45	3		1.32
57	189.5	C35	35	35/1	285	360	360	630	7.50	3		1.50
50	216.6	C40	40	40/1	285	360	360	630	7.43	3		1.32
200	55.3	C10	10	10/1	345	665	750	1250	8.21	2		6.24
167	65.0	C12	12	12/1	300	530	530	1250	9.06	2		4.62
125	86.6	C16	16	16/1	480	760	760	1350	8.77	2		5.54
100	108.3	C20	20	20/1	515	760	760	1350	8.40	2		4.76
80	135.4	C25	25	25/1	515	700	700	1350	8.33	2		3.80
71	151.6	C28	28	28/1	570	760	760	1350	7.90	2		3.76
67	162.5	C30	30	30/1	300	530	530	1250	7.68	2		1.85
57	189.5	C35	35	35/1	560	700	700	1350	7.87	2		2.95
50	216.6	C40	40	40/1	610	760	760	1350	7.63	2		2.82
40	270.8	C50	50	50/1	560	700	700	1350	7.61	2		2.07
29	379.1	C70	70	70/1	610	725	725	1350	7.60	2		1.61
67	162.5	C30	30	30/1	730	1300	1300	2850	8.42	2		4.49
50	216.6	C40	40	40/1	1200	1600	1600	2850	8.28	2		5.54
40	270.8	C50	50	50/1	1200	1600	2000	2850	8.23	2		4.43
29	379.1	C70	70	70/1	1200	1500	1500	2850	8.18	2		3.17
20	541.5	D10	100	100/1	970	1300	1400	2850	8.16	2		1.79

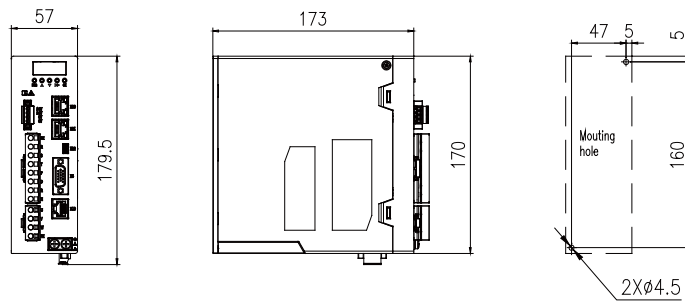
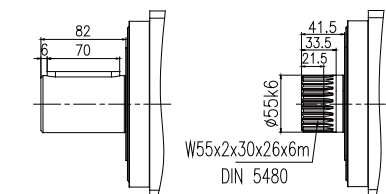
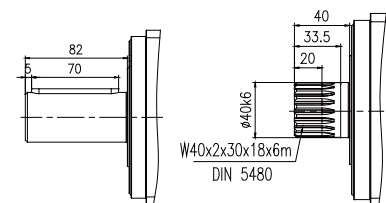
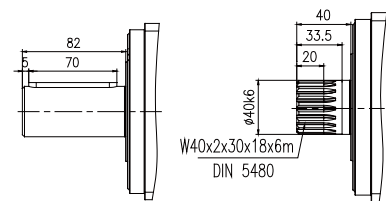
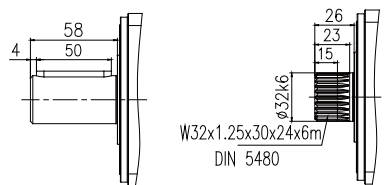
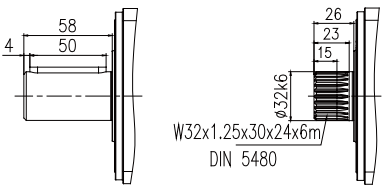
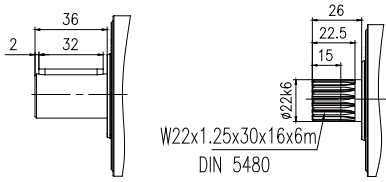
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	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103B□-B30-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B40-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B50-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B70-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-C10-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B30-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B40-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B50-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C12-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C16-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C20-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C25-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C28-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C30-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C35-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C40-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105B□-C10-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C12-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C16-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C20-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C25-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C30-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C50-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C70-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C30-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C40-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C50-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C70-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-D10-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30      Without 10 B30(Length 3m)  
 With brake 16 (Length 5m)B50      battery box B50(Length 5m)  
 (Length 7m)B70      With 11 B70(Length 7m)  
 (Length 10m)C10      battery box C10(Length 10m)





**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 2.05kW 9.8N.m  
4.6A 2000r/min

Servo motor: 2.05kW 9.8N.m  
4.6A 2000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
667	28.5	B30	3	3/1	66	108	142	200	14.84	3		2.31
500	38.0	B40	4	4/1	85	140	185	255	14.48	3		2.24
400	47.5	B50	5	5/1	85	140	185	255	14.35	3		1.79
667	28.5	B30	3	3/1	138	290	390	515	16.92	2		4.84
500	38.0	B40	4	4/1	185	390	515	630	15.56	2		4.87
400	47.5	B50	5	5/1	185	390	515	630	15.05	2		3.89
286	66.5	B70	7	7/1	185	390	445	630	14.59	2		2.78
200	95.1	C10	10	10/1	185	290	390	630	14.34	2		1.95
167	111.7	C12	12	12/1	215	270	270	515	14.63	3		1.92
125	149.0	C16	16	16/1	250	360	360	630	14.54	3		1.68
100	186.2	C20	20	20/1	265	360	360	630	14.38	3		1.42
80	232.8	C25	25	25/1	265	360	360	630	14.36	3		1.14
286	66.5	B70	7	7/1	345	830	865	1350	15.77	2		5.18
200	95.1	C10	10	10/1	345	665	750	1250	14.94	2		3.63
167	111.7	C12	12	12/1	300	530	530	1250	15.79	2		2.69
125	149.0	C16	16	16/1	480	760	760	1350	15.50	2		3.22
100	186.2	C20	20	20/1	515	760	760	1350	15.13	2		2.77
80	232.8	C25	25	25/1	515	700	700	1350	15.06	2		2.21
71	260.7	C28	28	28/1	570	760	760	1350	14.63	2		2.19
67	279.3	C30	30	30/1	300	530	530	1250	14.41	2		1.07
57	325.9	C35	35	35/1	560	700	700	1350	14.60	2		1.72
50	372.4	C40	40	40/1	610	760	760	1350	14.36	2		1.64
40	465.5	C50	50	50/1	560	700	700	1350	14.34	2		1.20
71	260.7	C28	28	28/1	1200	1600	1600	2850	15.91	2		4.60
67	279.3	C30	30	30/1	730	1300	1300	2850	15.15	2		2.61
57	325.9	C35	35	35/1	1200	1600	2000	2850	15.80	2		3.68
50	372.4	C40	40	40/1	1200	1600	1600	2850	15.01	2		3.22
40	465.5	C50	50	50/1	1200	1600	2000	2850	14.96	2		2.58
29	651.7	C70	70	70/1	1200	1500	1500	2850	14.91	2		1.84

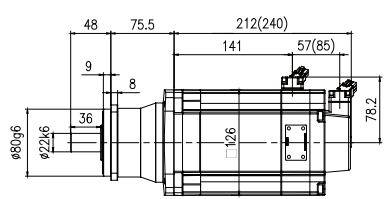
此类产品交货期长

This type of product has  
a long delivery time

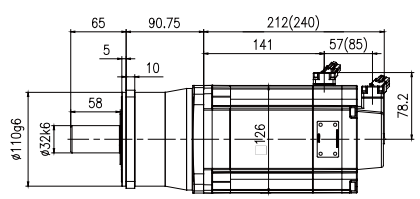
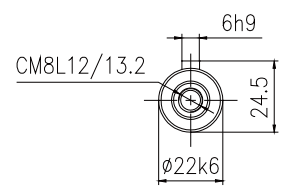
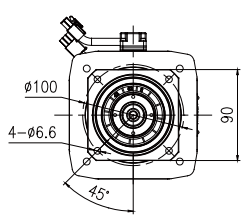
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103B□-B30-□□□□-MNO63M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B40-□□□□-MNO63M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B50-□□□□-MNO63M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B30-□□□□-MNO63M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B40-□□□□-MNO63M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B50-□□□□-MNO63M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MNO63M1E20FP3	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MNO63M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C12-□□□□-MNO63M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C16-□□□□-MNO63M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C20-□□□□-MNO63M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C25-□□□□-MNO63M1E20FP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105B□-B70-□□□□-MNO63M1E20LP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105B□-C10-□□□□-MNO63M1E20LP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C12-□□□□-MNO63M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C16-□□□□-MNO63M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C20-□□□□-MNO63M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C25-□□□□-MNO63M1E20FP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MNO63M1E20FP3	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C30-□□□□-MNO63M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MNO63M1E20FP3	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MNO63M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C50-□□□□-MNO63M1E20FP4	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C28-□□□□-MNO63M1E20LP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C30-□□□□-MNO63M1E20LP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C35-□□□□-MNO63M1E20LP1	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C40-□□□□-MNO63M1E20LP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C50-□□□□-MNO63M1E20LP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C70-□□□□-MNO63M1E20LP2	10213	20213	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30 Without 10 B30(Length 3m)  
 With brake 16 (Length 5m)B50 battery box B50(Length 5m)  
 (Length 7m)B70 With 11 B70(Length 7m)  
 (Length 10m)C10 battery box C10(Length 10m)

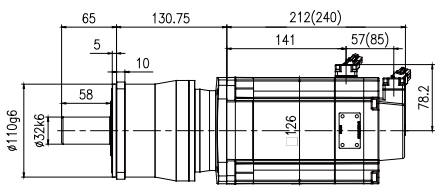
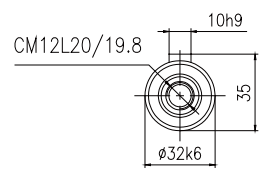
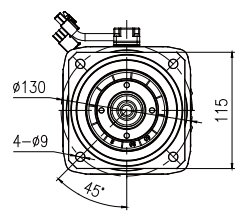
### MN063M outline dimension diagram



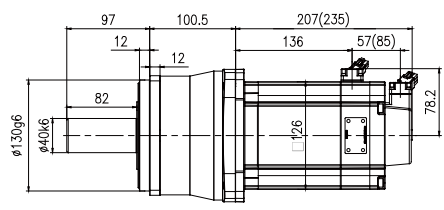
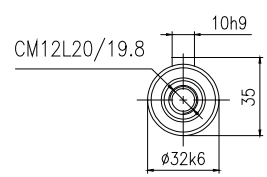
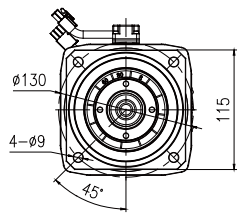
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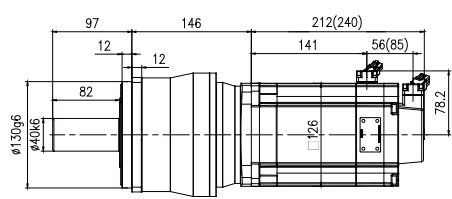
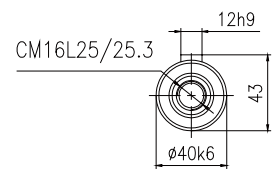
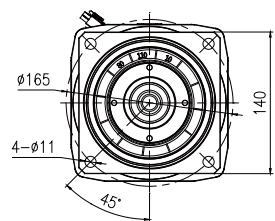
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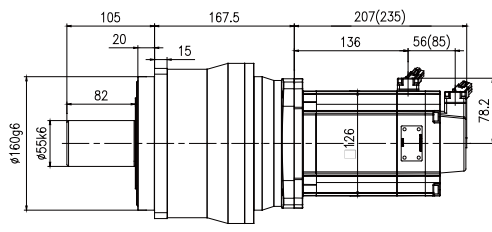
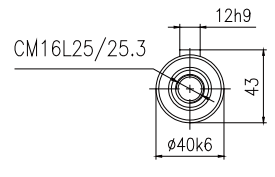
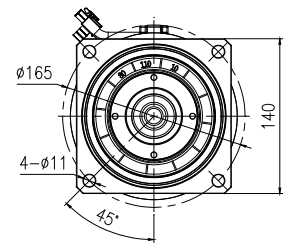
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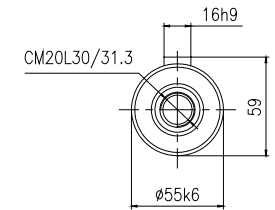
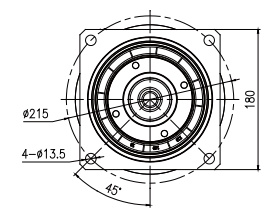
PN105B□-□□□-□□□□-**MN063M1E20LP**□



PN205B□-□□□-□□□□-**MN063M1E20FP**□



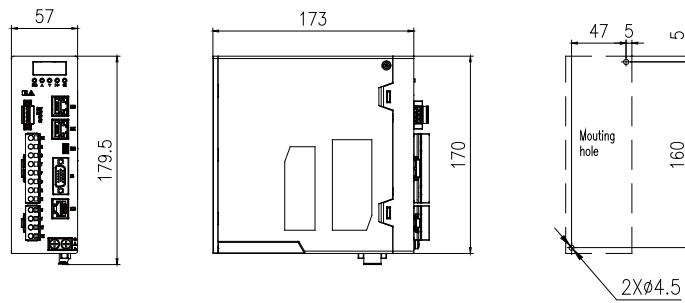
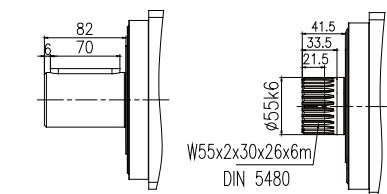
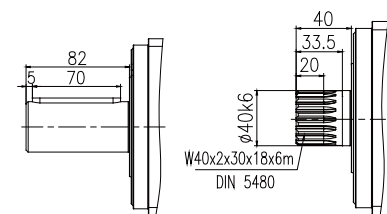
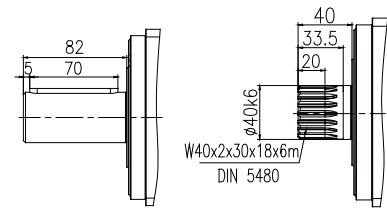
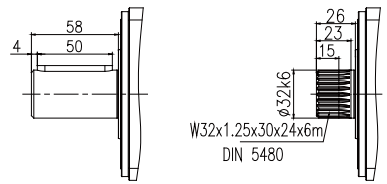
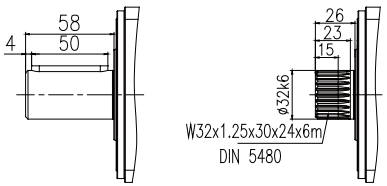
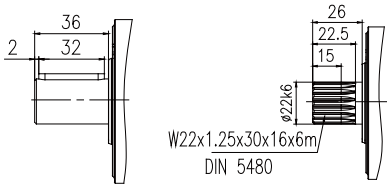
PN206B□-□□□-□□□□-**MN063M1E20LP**□



注：( ) 为带制动器尺寸

Note: ( ) is the size with brake

**Outline dimension diagram of the equipped servo driver**



伺服马达: 2.39kW 11.4N.m  
5A 2000r/min

Servo motor: 2.39kW 11.4N.m  
5A 2000r/min

齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	$i$	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	$f$
667	33.2	B30	3	3/1	138	290	390	515	28.32	2		4.16
500	44.2	B40	4	4/1	185	390	515	630	26.96	2		4.18
400	55.3	B50	5	5/1	185	390	515	630	26.45	2		3.35
286	77.4	B70	7	7/1	185	390	445	630	25.99	2		2.39
200	110.6	C10	10	10/1	185	290	390	630	25.74	2		1.67
667	33.2	B30	3	3/1	220	500	650	1250	35.07	2		6.63
500	44.2	B40	4	4/1	355	830	1100	1350	30.46	2		8.03
400	55.3	B50	5	5/1	355	830	1100	1350	28.72	2		6.42
286	77.4	B70	7	7/1	345	830	865	1350	27.17	2		4.46
200	110.6	C10	10	10/1	345	665	750	1250	26.34	2		3.12
167	130.0	C12	12	12/1	300	530	530	1250	27.19	2		2.31
125	173.3	C16	16	16/1	480	760	760	1350	26.90	2		2.77
100	216.6	C20	20	20/1	515	760	760	1350	26.53	2		2.38
80	270.8	C25	25	25/1	515	700	700	1350	26.46	2		1.90
71	303.2	C28	28	28/1	570	760	760	1350	26.03	2		1.88
57	379.1	C35	35	35/1	560	700	700	1350	26.00	2		1.48
50	433.2	C40	40	40/1	610	760	760	1350	25.76	2		1.41
286	77.4	B70	7	7/1	925	1525	2030	2800	30.58	2		11.95
200	110.6	C10	10	10/1	900	1200	1600	2600	28.07	2		8.14
167	130.0	C12	12	12/1	730	1300	1300	2850	31.77	2		5.62
125	173.3	C16	16	16/1	1200	1600	1600	2850	30.91	2		6.93
100	216.6	C20	20	20/1	1200	1600	1600	2850	29.00	2		5.54
80	270.8	C25	25	25/1	1200	1600	2000	2850	28.79	2		4.43
71	303.2	C28	28	28/1	1200	1600	1600	2850	27.31	2		3.96
67	324.9	C30	30	30/1	730	1300	1300	2850	26.55	2		2.25
57	379.1	C35	35	35/1	1200	1600	2000	2850	27.20	2		3.17
50	433.2	C40	40	40/1	1200	1600	1600	2850	26.41	2		2.77
40	541.5	C50	50	50/1	1200	1600	2000	2850	26.36	2		2.22
29	758.1	C70	70	70/1	1200	1500	1500	2850	26.31	2		1.58
71	303.2	C28	28	28/1	1900	3000	3200	5550	30.54	2		6.27
67	324.9	C30	30	30/1	1500	1900	2100	5550	28.33	2		4.62
57	379.1	C35	35	35/1	1900	3000	3900	5550	30.30	2		5.01
50	433.2	C40	40	40/1	1900	3000	3000	5550	28.04	2		4.39
40	541.5	C50	50	50/1	1900	3000	3700	5550	27.93	2		3.51
29	758.1	C70	70	70/1	1700	2600	2600	5550	27.82	2		2.24
20	1083.0	D10	100	100/1	1700	2200	2200	5550	27.77	2		1.57

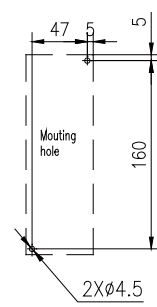
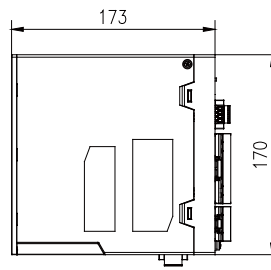
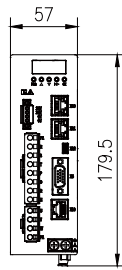
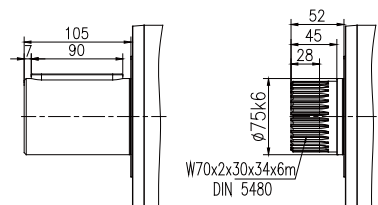
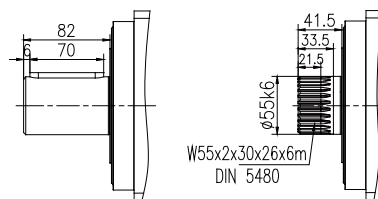
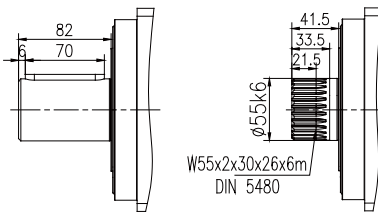
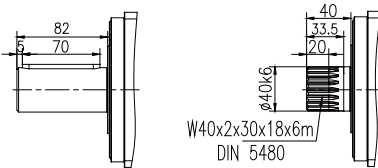
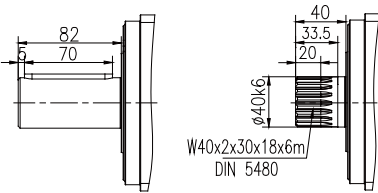
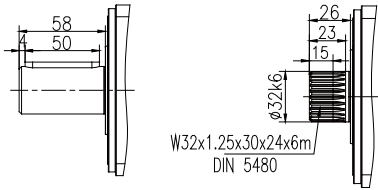
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
	Servo motor ID			Servo motor cable configuration order number	
Order number of planetary precision gear servo motor	Without brake	With brake	Servo driver order number	Servo motor power line	Servo motor signal line
PN104B□-B30-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104B□-B40-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104B□-B50-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MN080S1E20FP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MN080S1E20FP3	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B30-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B40-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B50-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B70-□□□□-MN080S1E20FP5	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-C10-□□□□-MN080S1E20FP6	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C12-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C16-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C20-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C25-□□□□-MN080S1E20FP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MN080S1E20FP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MN080S1E20FP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MN080S1E20FP3	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN106B□-B70-□□□□-MN080S1E20LP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN106B□-C10-□□□□-MN080S1E20LP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C12-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C16-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C20-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C25-□□□□-MN080S1E20FP4	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C28-□□□□-MN080S1E20FP5	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C30-□□□□-MN080S1E20FP6	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C35-□□□□-MN080S1E20FP5	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C40-□□□□-MN080S1E20FP6	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C50-□□□□-MN080S1E20FP6	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C70-□□□□-MN080S1E20FP6	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C28-□□□□-MN080S1E20LP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C30-□□□□-MN080S1E20LP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C35-□□□□-MN080S1E20LP1	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C40-□□□□-MN080S1E20LP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C50-□□□□-MN080S1E20LP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C70-□□□□-MN080S1E20LP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-D10-□□□□-MN080S1E20LP2	10410	20410	AN-B3B15-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30 Without 10 B30(Length 3m)  
 With brake 16 (Length 5m)B50 battery box B50(Length 5m)  
 (Length 7m)B70 With 11 B70(Length 7m)  
 (Length 10m)C10 battery box C10(Length 10m)





**Outline dimension diagram of the equipped servo driver**



AN-B3B15-S-EC

伺服马达: 3.98kW 19N.m  
8.1A 2000r/min

Servo motor: 3.98kW 19N.m  
8.1A 2000r/min

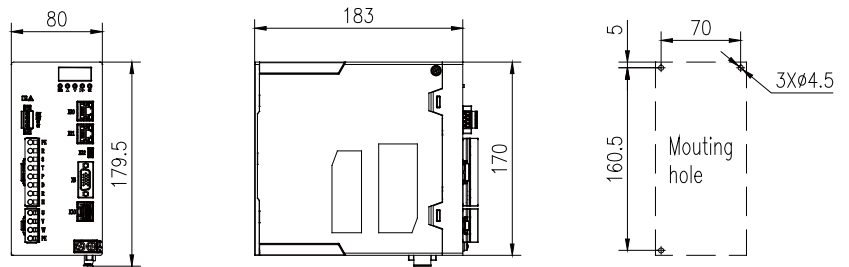
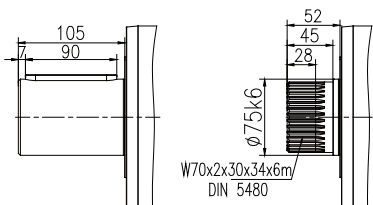
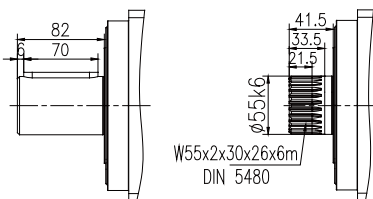
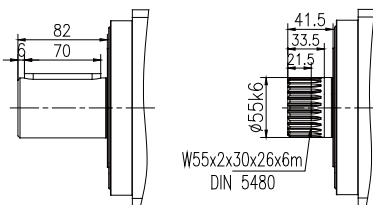
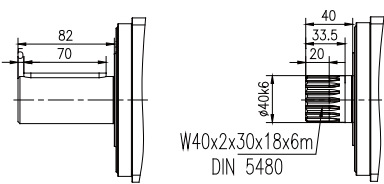
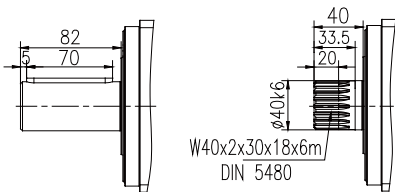
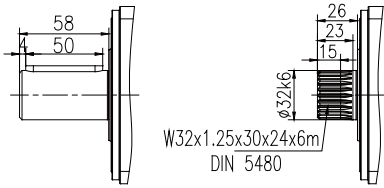
齿轮箱 输出转速	齿轮箱 输出扭矩	齿轮箱 速比代号	齿轮箱 公称速比	齿轮箱 精确速比	齿轮箱 额定扭矩	齿轮箱 最大加速 扭矩	齿轮箱 最大扭矩	齿轮箱 急停扭矩	齿轮箱 转动惯量	齿轮箱 最大回程 间隙	齿轮箱 扭转刚度	齿轮箱 服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum torque	Gearbox emergency stop torque	Gearbox rotational inertia	Gearbox maximum return clearance	Gearbox torsional stiffness	Gearbox service coefficient
$n_{2N}$ r/min	$T_2$ N.m	Code	i	$i_{ex}$	$T_{2N}$ N.m	$T_{2B}$ N.m	$T_{2a}$ N.m	$T_{2NOT}$ N.m	$J_1$ kgcm <sup>2</sup>	$J_t$ arcmin	$C_2$ Nm/arcmin	f
667	55.3	B30	3	3/1	138	290	390	515	51.72	2		2.50
500	73.7	B40	4	4/1	185	390	515	630	50.36	2		2.51
400	92.2	B50	5	5/1	185	390	515	630	49.85	2		2.01
286	129.0	B70	7	7/1	185	390	445	630	49.39	2		1.43
667	55.3	B30	3	3/1	220	500	650	1250	58.47	2		3.98
500	73.7	B40	4	4/1	355	830	1100	1350	53.86	2		4.82
400	92.2	B50	5	5/1	355	830	1100	1350	52.12	2		3.85
286	129.0	B70	7	7/1	345	830	865	1350	50.57	2		2.67
200	184.3	C10	10	10/1	345	665	750	1250	49.74	2		1.87
167	216.6	C12	12	12/1	300	530	530	1250	50.59	2		1.39
125	288.8	C16	16	16/1	480	760	760	1350	50.30	2		1.66
100	361.0	C20	20	20/1	515	760	760	1350	49.93	2		1.43
80	451.3	C25	25	25/1	515	700	700	1350	49.86	2		1.14
71	505.4	C28	28	28/1	570	760	760	1350	49.43	2		1.13
667	55.3	B30	3	3/1	580	1200	1600	2600	77.70	2		10.49
500	73.7	B40	4	4/1	950	1525	2030	2800	63.98	2		12.89
400	92.2	B50	5	5/1	965	1525	2030	2800	58.67	2		10.47
286	129.0	B70	7	7/1	925	1525	2030	2800	53.98	2		7.17
200	184.3	C10	10	10/1	900	1200	1600	2600	51.47	2		4.88
167	216.6	C12	12	12/1	730	1300	1300	2850	55.17	2		3.37
125	288.8	C16	16	16/1	1200	1600	1600	2850	54.31	2		4.16
100	361.0	C20	20	20/1	1200	1600	1600	2850	52.40	2		3.32
80	451.3	C25	25	25/1	1200	1600	2000	2850	52.19	2		2.66
71	505.4	C28	28	28/1	1200	1600	1600	2850	50.71	2		2.37
67	541.5	C30	30	30/1	730	1300	1300	2850	49.95	2		1.35
57	631.8	C35	35	35/1	1200	1600	2000	2850	50.60	2		1.90
50	722.0	C40	40	40/1	1200	1600	1600	2850	49.81	2		1.66
40	902.5	C50	50	50/1	1200	1600	2000	2850	49.76	2		1.33
167	216.6	C12	12	12/1	1500	1900	2100	5550	65.65	2		6.93
125	288.8	C16	16	16/1	1900	3000	3200	5550	63.82	2		6.58
100	361.0	C20	20	20/1	1900	3100	3200	5550	58.57	2		5.26
80	451.3	C25	25	25/1	1900	3100	3900	5550	58.11	2		4.21
71	505.4	C28	28	28/1	1900	3000	3200	5550	53.94	2		3.76
67	541.5	C30	30	30/1	1500	1900	2100	5550	51.73	2		2.77
57	631.8	C35	35	35/1	1900	3000	3900	5550	53.70	2		3.01
50	722.0	C40	40	40/1	1900	3000	3000	5550	51.44	2		2.63
40	902.5	C50	50	50/1	1900	3000	3700	5550	51.33	2		2.11
29	1263.5	C70	70	70/1	1700	2600	2600	5550	51.22	2		1.35

行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
	Servo motor ID			Servo motor cable configuration order number	
Order number of planetary precision gear servo motor	Without brake	With brake	Servo driver order number	Servo motor power line	Servo motor signal line
	PN104B□-B30-□□□□-MN080M1E20FP1	10412		20412	AN-B3B30-S-EC
PN104B□-B40-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104B□-B50-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MN080M1E20FP2	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B30-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B40-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B50-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-B70-□□□□-MN080M1E20FP4	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN105B□-C10-□□□□-MN080M1E20FP5	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C12-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C16-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C20-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C25-□□□□-MN080M1E20FP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MN080M1E20FP2	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN106B□-B30-□□□□-MN080M1E20LP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN106B□-B40-□□□□-MN080M1E20LP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN106B□-B50-□□□□-MN080M1E20LP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN106B□-B70-□□□□-MN080M1E20LP2	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN106B□-C10-□□□□-MN080M1E20LP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C12-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C16-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C20-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C25-□□□□-MN080M1E20FP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C28-□□□□-MN080M1E20FP4	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C30-□□□□-MN080M1E20FP5	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C35-□□□□-MN080M1E20FP4	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C40-□□□□-MN080M1E20FP5	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN206B□-C50-□□□□-MN080M1E20FP5	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C12-□□□□-MN080M1E20LP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C16-□□□□-MN080M1E20LP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C20-□□□□-MN080M1E20LP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C25-□□□□-MN080M1E20LP1	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C28-□□□□-MN080M1E20LP2	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C30-□□□□-MN080M1E20LP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C35-□□□□-MN080M1E20LP2	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C40-□□□□-MN080M1E20LP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C50-□□□□-MN080M1E20LP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□
PN207B□-C70-□□□□-MN080M1E20LP3	10412	20412	AN-B3B30-S-EC	A2-H□□-A15-□□□	A2-H17-A□□-□□□

Without brake 18 (Length 3m)B30 Without 10 B30(Length 3m)  
 With brake 16 (Length 5m)B50 battery box B50(Length 5m)  
 (Length 7m)B70 With 11 B70(Length 7m)  
 (Length 10m)C10 battery box C10(Length 10m)



**Outline dimension diagram of the equipped servo driver**



## 9 输出轴允许的轴向力和径向力

## 9 Permissible axial and radial forces on the output shaft

输出轴轴承配置1: 深沟球轴承+深沟球轴承

Output shaft bearing configuration 1: Angular contact ball bearing + tapered roller bearing

输出轴 载荷 Output shaft load	代号 Code	单位 Unit	PN101B	PN102B	PN103B	PN104B	PN105B	PN106B	PN107B
				PN202B	PN203B	PN204B	PN205B	PN206B	PN207B
20000h 的径向力 Radial force for 20000h	Fr20000h	N	600	1300	2050	2500	3500	7350	9300
20000h 的轴向力 Axial force for 20000h	Fa20000h		250	500	750	1050	1750	2600	3350
30000h 的径向力 Radial force for 30000h	Fr30000h		500	1150	1750	2200	3050	6400	8100
30000h 的轴向力 Axial force for 20000h	Fa30000h		200	400	650	900	1550	2250	2950
20000h 的侧倾力矩 Tilting moment for 20000h	Mk20000h	Nm	30	93	173	266	464	1099	1638
30000h 的侧倾力矩 Tilting moment for 30000h	Mk30000h		26	81	151	232	405	960	1431

注: 深沟球轴承+深沟球轴承配置的典型应用: 联轴器、径向力较小的直齿轮等

Note: Typical application of Deep groove ball bearing+Deep groove ball bearing: Couplings, spur gears with small radial force, etc.)

输出轴轴承配置2: 角接触球轴承+圆锥滚子轴承

Output shaft bearing configuration 2: Angular contact ball bearing + tapered roller bearing

输出轴 载荷 Output shaft load	代号 Code	单位 Unit	PN101B	PN102B	PN103B	PN104B	PN105B	PN106B	PN107B
				PN202B	PN203B	PN204B	PN205B	PN206B	PN207B
20000h 的径向力 Radial force for 20000h	Fr20000h	N	/	2950	6200	7900	13100	25650	30450
20000h 的轴向力 Axial force for 20000h	Fa20000h		/	2700	5050	6900	11650	18450	23350
30000h 的径向力 Radial force for 30000h	Fr30000h		/	2600	5500	7000	11600	22700	26950
30000h 的轴向力 Axial force for 20000h	Fa30000h		/	2400	4500	6100	10300	16350	20700
20000h 的侧倾力矩 Tilting moment for 20000h	Mk20000h	Nm	/	272	703	1137	2376	5409	7531
30000h 的侧倾力矩 Tilting moment for 30000h	Mk30000h		/	241	623	1007	2103	4789	6668

注: 角接触球轴承+圆锥滚子轴承配置的典型应用: 有径向力, 有轴向力的斜齿轮等

Note: Typical application of Deep groove ball bearing+Deep groove ball bearing: Couplings, spur gears with small radial force, etc.)

### 10 重量表

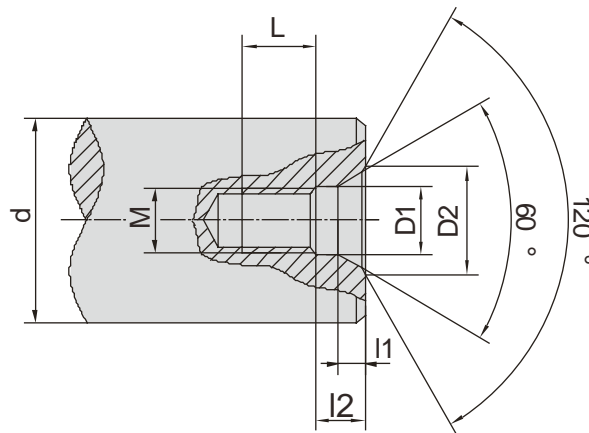
### 10 Weight table

PN(B) 行星齿轮箱重量表 (kg)				PN(B) Current Planetary Weight table (kg)				
机座号	Frame size	PN101B	PN102B	PN103B	PN104B	PN105B	PN106B	PN107B
重量	Weight	1.1	1.8	3.5	7.5	14.6	25.1	39.4
机座	Frame size	PN202B		PN203B	PN204B	PN205B	PN206B	PN207B
重量	Weight	2.1		4.2	8.9	17.6	33.9	51.2

直连MN伺服马达重量表 (Kg)						Directly connected MN servo motor weight table (Kg)					
机座号	Frame size	MN028S1	MN028M1	MN036S1	MN036M1	MN048S1	MN048M1	MN063S1	MN063M1	MN080S1	MN080M1
额定功率 (KW)	Rated power (KW)	0.28	0.42	0.47	0.75	1	1.5	1.2	2.05	2.39	3.98
不带制动	Without brake	1.8	2.4	2.7	3.9	4.5	7	7.1	10.9	13.6	21.9
带制动	With brake	2	2.7	3.1	4.3	5.2	7.7	8	11.8	14.3	23.9

### 11 轴端C型螺纹的中心孔尺寸表

### 11 Center hole size table of shaft end C thread



d	M	L	12	11	D1	D2
7 < d ≤ 10	M3	10	2.6	1.8	3.2	5.8
10 < d ≤ 13	M4	10	3.2	2.1	4.3	7.4
13 < d ≤ 16	M5	10	4	2.4	5.3	8.8
16 < d ≤ 21	M6	12	5	2.8	6.4	10.5
21 < d ≤ 24	M8	12	6	3.3	8.4	13.2
24 < d ≤ 30	M10	15	7.5	3.8	10.5	16.3
30 < d ≤ 38	M12	20	9.5	4.4	13	19.8
38 < d ≤ 50	M16	25	12	5.2	17	25.3
50 < d ≤ 85	M20	30	15	6.4	21	31.3
85 < d ≤ 130	M24	35	18	8	26	38



## MN通用型伺服马达

### 12 伺服马达概述

MN系列伺服马达匹配博能AN系列伺服驱动器可组成精确定位的伺服系统。

MN伺服马达出厂常用的冷却方式为自然冷却,其他冷却方式,如强制风冷、水冷伺服马达可特殊定制并实现更高的功率输出,具体参数另请咨询。

MN伺服马达设计生产符合ISO、IEC、GB等相关标准要求。BONENG伺服马达适用于连续工作制(S1),同时满足大部分断续工作方式(S2-S10)

## MN universal servo motor

### 12 Servo motors overview

MN series servo motors matched with Boneng AN series servo drivers can form a precise positioning servo system.

The commonly used cooling method for MN servo motors at the factory is natural cooling, while other cooling methods such as forced air cooling and water-cooled servo motors can be specially customized and achieved high power output, please consult for specific parameters.

The design and production of MN servo motors comply with relevant standards such as ISO, IEC, and GB. BONENG servo motor is suitable for continuous working system (S1), Simultaneously meeting most intermittent working modes (S2-S10)

#### 12.1 马达技术特征

#### 12.1 Motor technical characteristics

马达型号	Motor model	通用型三相交流同步伺服马达	Universal Three-phase AC synchronous servo motor
磁性材料	Magnetic material	稀土永磁材料	Rare earth permanent magnet material
轴高(mm)	Shaft height(mm)	28、36、48、63、80	28、36、48、63、80
额定功率(kW)	Rated power(kW)	0.28-3.98	0.28-3.98
额定转矩(N.m)	Rated torque(N.m)	0.8-19	0.8-19
额定转速(r/min)	Rated speed(r/min)	2000、3000、4500	2000、3000、4500
绝缘等级	Insulation class	F	F
防护等级	Protection class	IP65 (不包括连接器部分)	IP65 (Excluding connector parts)
冷却方式	Cooling method	自然冷却	Natural cooling
振动等级	Vibration level	A级	A
噪声(dB)	Noise(dB)	55-70	55-70
径向圆跳精度、同轴度和断面圆跳精度等级	Runout Accuracy and Concentricity	N	N
能效等级	Energy efficiency level	IE5	IE5
编码器	Encoder	编码器分辨率 <sup>2<sup>3</sup></sup>	Encoder resolution 2 <sup>23</sup>
连接器	Connector	塑壳端子	plastic case terminals
选件	Options	内置永磁失电制动器	Built-in permanent magnet power-off brake

#### 12.2 马达运行环境

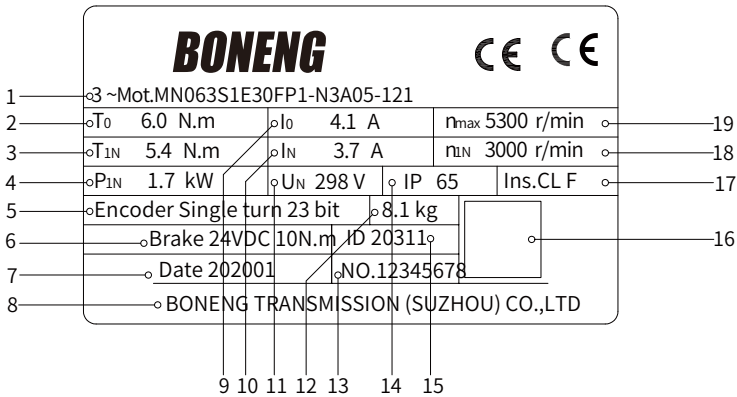
所允许的相对湿度:  
 $-20^{\circ}\text{C} \leq T \leq 20^{\circ}\text{C}: 100\%$   $20^{\circ}\text{C} < T \leq 30^{\circ}\text{C}: 95\%$   $30^{\circ}\text{C} < T \leq 40^{\circ}\text{C}: 55\%$   
 对于更高的环境温度、以及(或者)高于海拔1000m的地点,马达的额定功率换算系数为Kht所允许的功率值:  
 $P_n' = P_n \cdot K_{ht}$

#### 12.2 Motor operating environment

Allowable relative humidity:  
 $-20^{\circ}\text{C} \leq T \leq 20^{\circ}\text{C}: 100\%$   $20^{\circ}\text{C} < T \leq 30^{\circ}\text{C}: 95\%$   $30^{\circ}\text{C} < T \leq 40^{\circ}\text{C}: 55\%$   
 For higher ambient temperatures, and above 1000m altitude, the motor's rated power conversion factor is the power value allowed by Kht:  $P_n' = P_n \cdot K_{ht}$

海拔高度 Altitude	对于不同高度和(或)不同环境温度的功率折算系数Kht					
	Power conversion factor for different altitudes and different ambient temperatures Kht					
	对应海拔高度的环境温度 Ambient temperature corresponding to altitude					
	<30°C	30~40°C	45°C	50°C	55°C	60°C
1000 m	1.07	1	0.96	0.92	0.87	0.82
1500 m	1.04	0.97	0.93	0.89	0.84	0.79
2000 m	1	0.94	0.9	0.86	0.82	0.77
2500 m	0.96	0.9	0.86	0.83	0.78	0.74
3000 m	0.92	0.86	0.82	0.79	0.75	0.7
3500 m	0.88	0.82	0.79	0.75	0.71	0.67
4000 m	0.82	0.77	0.74	0.71	0.67	0.63

## 12.3 马达铭牌信息



## 12.3 Motor nameplate information

- |                 |                         |
|-----------------|-------------------------|
| 1. 马达型号         | 1. Model of motor       |
| 2. 静止转矩(100K)   | 2. Static torque(100K)  |
| 3. 额定转矩(100K)   | 3. Rated torque(100K)   |
| 4. 额定功率         | 4. Rated power          |
| 5. 编码器参数        | 5. Parameter of encoder |
| 6. 制动器参数        | 6. Parameter of brake   |
| 7. 生产日期         | 7. Date in produced     |
| 8. 公司名称         | 8. Company name         |
| 9. 静止电流         | 9. Static current       |
| 10. 额定电流        | 10. Rated current       |
| 11. 额定转速下的感应线电压 | 11. Back EMF            |
| 12. 重量          | 12. Weight              |
| 13. 出厂编号        | 13. Factory number      |
| 14. 防护等级        | 14. Level of protection |
| 15. 马达ID        | 15. ID of the motor     |
| 16. 二维码         | 16. QR code             |
| 17. 绝缘等级        | 17. Insulation grade    |
| 18. 额定转速        | 18. Rated speed         |
| 19. 最大转速        | 19. Maximum speed       |

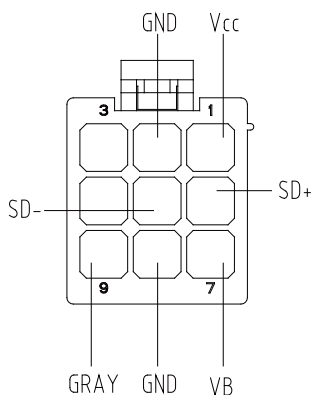
## 12.4 马达制动器参数

## 12.4 Motor brake parameters

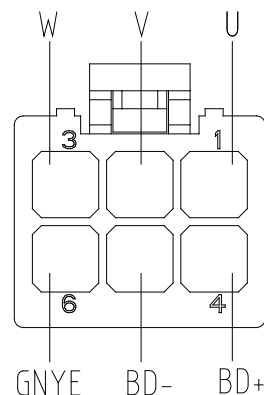
制动器型号	Brake model	BN028	BN036	BN048	BN063	BN080
静摩擦力矩(N.m)	Static friction torque(N.m)	≥1.9	≥2.4	≥3.8	≥10	≥22
制动器功率(W)	Brake power(W)	8.76	6.74	13.4	14	19
转动惯量(kg·cm <sup>2</sup> )	Moment of inertia(kg·cm <sup>2</sup> )	0.09	0.11	0.39	0.78	2.55
额定间隙(mm)	Rated clearance(mm)	0.15	0.12	0.2	0.2	0.3
工作电压(VDC)	Operating voltage(VDC)	24±10%	24±10%	24±10%	24±10%	24±10%
工作温度(°C)	Operating temperature(°C)	-15~120	-15~120	-15~120	-15~120	-15~120
制动器吸合时间(ms)	Brake pull-in time(ms)	≤20	≤20	≤30	≤25	≤30
制动器释放时间(ms)	Brake release time(ms)	≤35	≤80	≤50	≤90	≤100
紧急制动次数(次)	Emergency braking times(times)	2000	2000	2000	500	2000
紧急制动次数(次/小时)	Emergency braking times(times/hour)	20	20	20	20	20
最大紧急制动转速(r/min)	Maximum emergency braking speed(r/min)	6000	6000	6000	3000	3000
适配马达机座号	Compatible motor frame size	28	36	48	063/080S	080M

## 12.5 马达电气连接

## 12.5 Motor electrical connection



马达信号端插头 motor signal end plug



马达动力端插头 motor power end plug

## 13 伺服马达参数及特性曲线 13 Servo motor parameters and characteristic curve

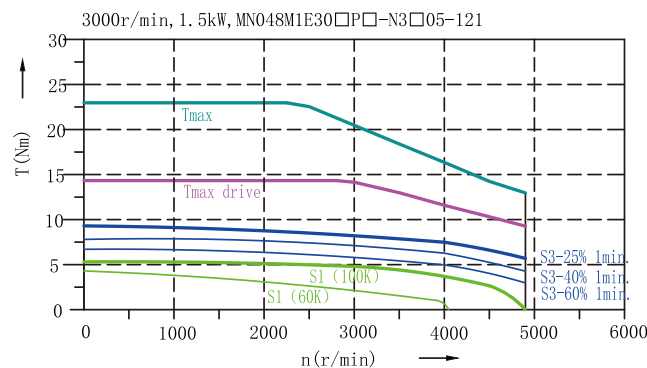
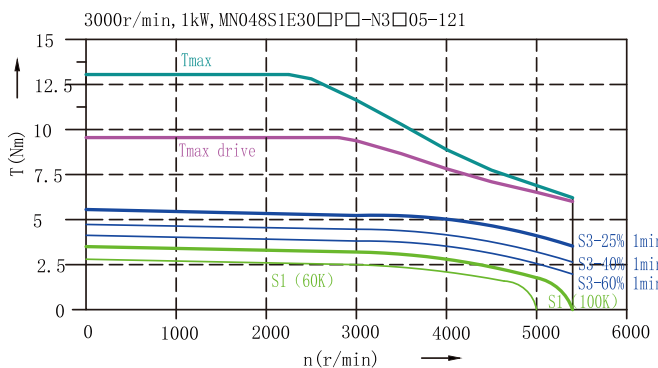
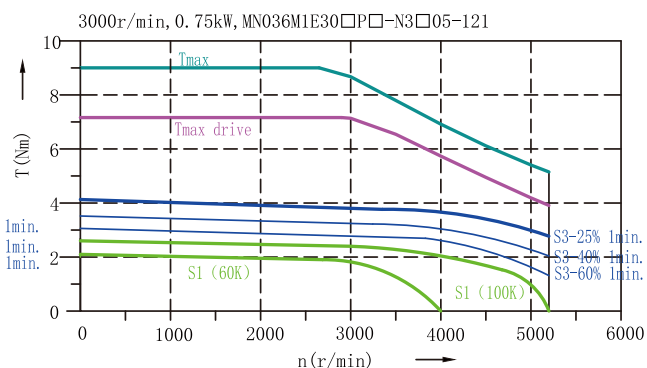
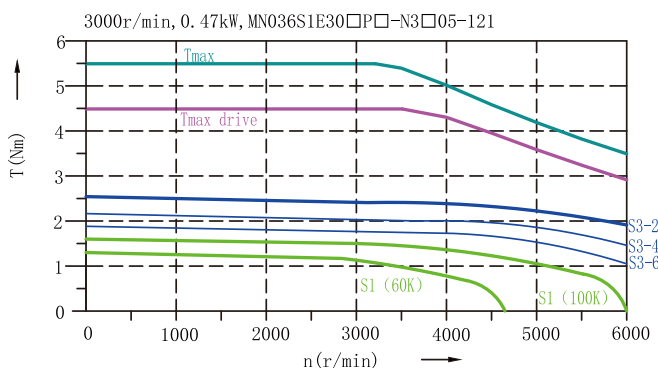
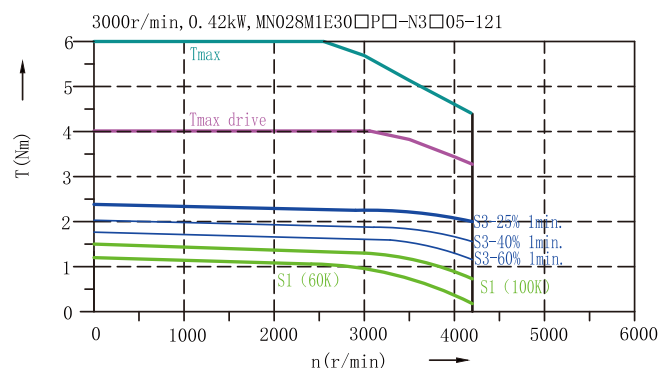
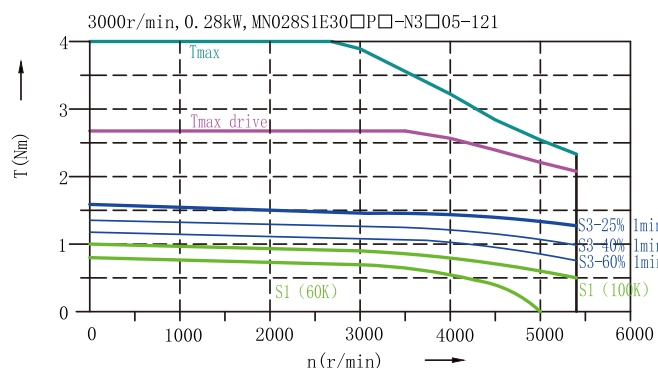
机座号028、036和048伺服马达参数、外形尺寸以及特性曲线

Frame size 028、036 and 048 servo motor parameters, dimensions and characteristic curve

马达型号	Motor Model	MN028S1E30 □P□-N3□ 05-121	MN028M1E30 □P□-N3□ 05-121	MN036S1E30 □P□-N3□ 05-121	MN036M1E30 □P□-N3□ 05-121	MN048S1E30 □P□-N3□ 05-121	MN048M1E30 □P□-N3□ 05-121
额定转速 $n_{IN}$ (r/min)	Rated speed $n_{IN}$ (r/min)	3000	3000	3000	3000	3000	3000
额定功率 $P_{IN}$ (kW)	Rated power $P_{IN}$ (kW)	0.28	0.42	0.47	0.75	1	1.5
额定电流 $I_{N(100K)}$ (A)	Rated current $I_{N(100K)}$ (A)	0.9	1	1.15	1.6	2.2	3
额定转矩 $T_{IN(100K)}$ (N.m)	Rated torque $T_{IN(100K)}$ (N.m)	0.9	1.3	1.5	2.4	3.2	4.8
静止电流 $I_0$ (A)	Static current $I_0$ (A)	1	1.2	1.3	1.8	2.5	3.4
静止转矩 $T_0$ (N.m)	Static torque $T_0$ (N.m)	1	1.5	1.6	2.6	3.5	5.3
最大转速 $n_{max\ drive}$ (r/min)	Maximum speed $n_{max\ drive}$ (r/min)	5400	4200	6000	5200	5400	4900
最大电流 $I_{max\ drive}$ (A)	Maximum current $I_{max\ drive}$ (A)	2.7	3	3.45	4.8	6.6	9
最大转矩 $T_{max\ drive}$ (N.m)	Maximum torque $T_{max\ drive}$ (N.m)	2.7	3.9	4.5	7.2	9.6	14.4
极限电流 $I_{max}$ (A)	Limit current $I_{max}$ (A)	4	4.8	4.5	6.2	9.3	14.8
极限转矩 $T_{max}$ (N.m)	Limit torque $T_{max}$ (N.m)	4	6	5.5	9	13	23
转动惯量 $J$ ( $10^{-4} \text{kg} \cdot \text{m}^2$ )	Moment of inertia $J$ ( $10^{-4} \text{kg} \cdot \text{m}^2$ )	0.15 (0.17)	0.25 (0.27)	0.74 (0.77)	1.41 (1.44)	2.53 (2.76)	4.85 (5.08)

注：括号内为带制动器的数据

Note: The data in parentheses are with brake



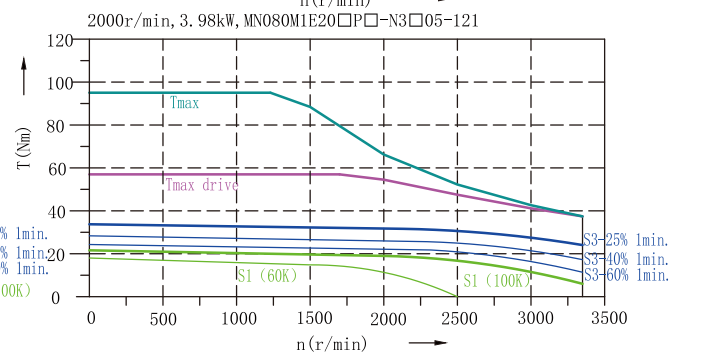
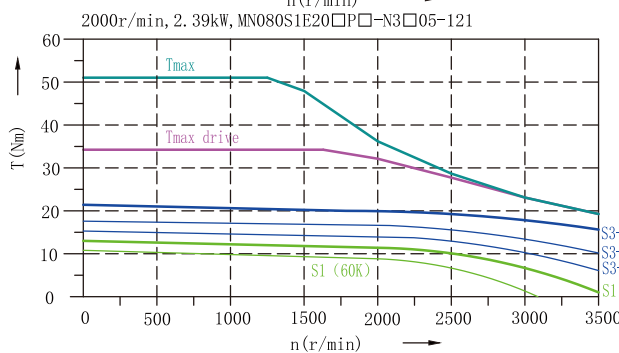
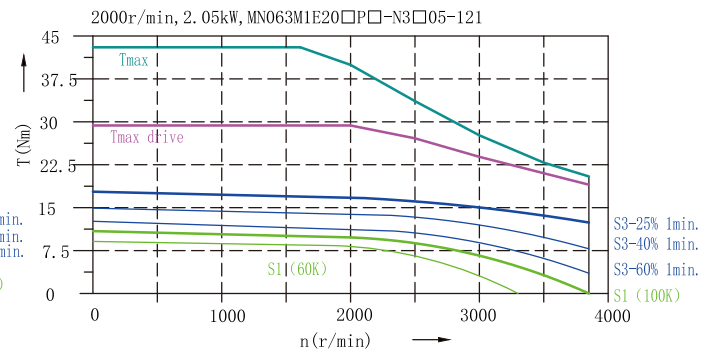
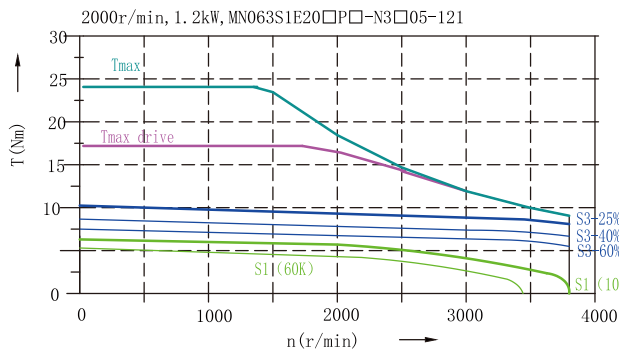
## 机座号063和080伺服马达参数、外形尺寸以及特性曲线

## Frame size 063 and 080 servo motor parameters, dimensions and characteristic curve

马达型号	Motor Model	MN063S1E20□P □-N3□05-121	MN063M1E20□P □-N3□05-121	MN080S1E20□P □-N3□05-121	MN080M1E20□P □-N3□05-121
额定转速 $n_{1N}$ (r/min)	Rated speed $n_{1N}$ (r/min)	2000	2000	2000	2000
额定功率 $P_{1N}$ (kW)	Rated power $P_{1N}$ (kW)	1.2	2.05	2.39	3.98
额定电流 $I_{N(100K)}$ (A)	Rated current $I_{N(100K)}$ (A)	2.8	4.6	5	8.1
额定转矩 $T_{1N(100K)}$ (N.m)	Rated torque $T_{1N(100K)}$ (N.m)	5.7	9.8	11.4	19
静止电流 $I_0$ (A)	Static current $I_0$ (A)	3.1	5.1	5.7	9.2
静止转矩 $T_0$ (N.m)	Static torque $T_0$ (N.m)	6.3	10.9	13	21.6
最大转速 $n_{max\ drive}$ (r/min)	Maximum speed $n_{max\ drive}$ (r/min)	3800	3850	3500	3350
最大电流 $I_{max\ drive}$ (A)	Maximum current $I_{max\ drive}$ (A)	8.4	13.8	15	24.3
最大转矩 $T_{max\ drive}$ (N.m)	Maximum torque $T_{max\ drive}$ (N.m)	17.1	29.4	34.2	57
极限电流 $I_{max}$ (A)	Limit current $I_{max}$ (A)	11.8	20.1	22.4	40.5
极限转矩 $T_{max}$ (N.m)	Limit torque $T_{max}$ (N.m)	24	43	51	95
转动惯量 $J(10^{-4}kg.m^2)$	Moment of inertia $J(10^{-4}kg.m^2)$	7.36(7.57)	14.09(14.31)	25.49(25.59)	48.89(50.08)

注：括号为带制动器的数据

Note: The data in parentheses are with brake



## AN通用型伺服驱动器

### 14 伺服驱动器概述

AN系列伺服驱动器是支持EtherCAT工业以太网的通用型伺服驱动器,支持STO安全转矩关断功能,配合MN通用型伺服马达,在不降低控制性能的同时,可为伺服系统提供更加优化的成本配置。



## AN general servo drive

### 14 Preface

The AN series servo drive is a general servo drive that supports EtherCAT industrial Ethernet communication protocol. It features STO (Safe Torque Off) safety torque shutdown function, which means that the torque output of the servo system can be safely stopped when needed, ensuring the safety of operators and equipment. When paired with MN universal servo motors, the AN series servo drive can provide a more optimized cost configuration for servo systems without compromising control performance, making it particularly attractive for applications that are cost-sensitive yet require high performance.

#### 14.1 伺服驱动器型号表示方法

#### 14.1 Model indication method

##### 通用型伺服驱动器

##### 电压等级

B = 400VAC

##### 输入相数

3=3相

##### 功率代号

A75 = 0.75kW

B15 = 1.5kW

B30 = 3.0kW

##### 版本类型

S=标准型驱动器

##### 通讯类型

EC=EtherCAT通讯

##### General servo drive

##### Voltage level

B = 400VAC

##### Input phase

3=3 phase

##### Power

A75 = 0.75kW

B15 = 1.5kW

B30 = 3.0kW

##### Version

S=Standard type drive

##### Communication type

EC=EtherCAT Communication

AN - B 3 B15 - S - EC

#### 14.2 伺服驱动器订货数据

#### 14.2 Model indication method

380...480V 3AC输入			380...480V 3AC input			
额定数据		Rated data	外形尺寸	Dimensions	型号	Order number
额定功率(kW)	Power (kW)	额定电流(A)				
0.75		1.9	N1		AN -B3A75 -S-EC	
1.5		5.3	N1		AN -B3B15-S-EC	
3		12.3	N2		AN -B3B30-S-EC	

### 14.3 伺服驱动器通用技术数据

### 14.3 General data of AN general servo drive

参数	Parameter	描述	Description
过载能力	Typical inverter load cycles		
电磁兼容性	Electromagnetic compatibility	符合 IEC 61800-3	According to IEC 61800-3
<b>环境条件 Ambient condition</b>			
运行环境	Operating environment	室内(无阳光直射)、无腐蚀性气体、易燃气体、油气或灰尘	In door, without corrosive gases, flammable gases, dust
环境 温度	Relative humidity	运行 Operating	<p>-20℃~+40℃:无功率降额, +40℃~+55℃:有功率降额</p> <p>-20℃~+40℃:without current derating, +40℃~+55℃:with current derating</p>
	存储 Storage		-40℃ ~ +70℃ -40℃ ~ +70℃
环境湿度	Relative humidity	< 95% (无凝露)	< 95% (without ripping water)
海拔	Installation altitude		
振动	vibration	符合 IEC 60068-2-6 10Hz~58Hz:0.075mm偏转, 58Hz~200Hz:1g振动	According to IEC 60068-2-6 10Hz~58Hz:0.075mm deflection, 58Hz~200Hz:1g vibration
冲击	impact	符合 IEC60068-2-27 峰值加速度:5g/0ms及 15g/1ms, 冲击数量:每方向 上3个轴6次冲击, 冲击持续 时间:1s	According to IEC60068-2-27 Peak acceleration:5g/0ms and 15g/1ms, impact quantity:six impacts on 3 axes in each direction, impact duration:1s
污染等级	Pollution	等级2	Suitable for environments with degree of pollution 2
噪音排放	Noise intensity	<75dB	<75dB
防护等级	Protection level	IP20	IP20
盐雾	Salt mist	符合 IEC60068-2-11	According to IEC60068-2-11
<b>输入输出信号 Input and output signals</b>			
数字量 输入信号	Digital input signal	5路公共端子COM的DI 电气隔离, 支持Source和 Sink模式, 最大电压:DC30V	DI of 5-way common terminal COM Electrical isolation, supports Source and Sink modes, maximum voltage: DC 30V
		"1"信号电压:>15V, "0"信号 电压:<5V, 24V典型电流:4mA	"1"Signal voltage:>15V, "0" Signal voltage:<5V, 24V Typical current: 4mA
数字量 输出信号	Digital output signal	3路开集电极DO	3-way open collector DO
		最大电压:DC30V, 最大电流:DC50mA	Maximum voltage: DC30V, maximum current: DC50mA
LED显示功能	LED display function	主电源带电指示, 5位LED显示	Main power supply live indica- tion, 5-digit LED display
调试	Debugging	通过USB调试参数	Debugging parameters through USB

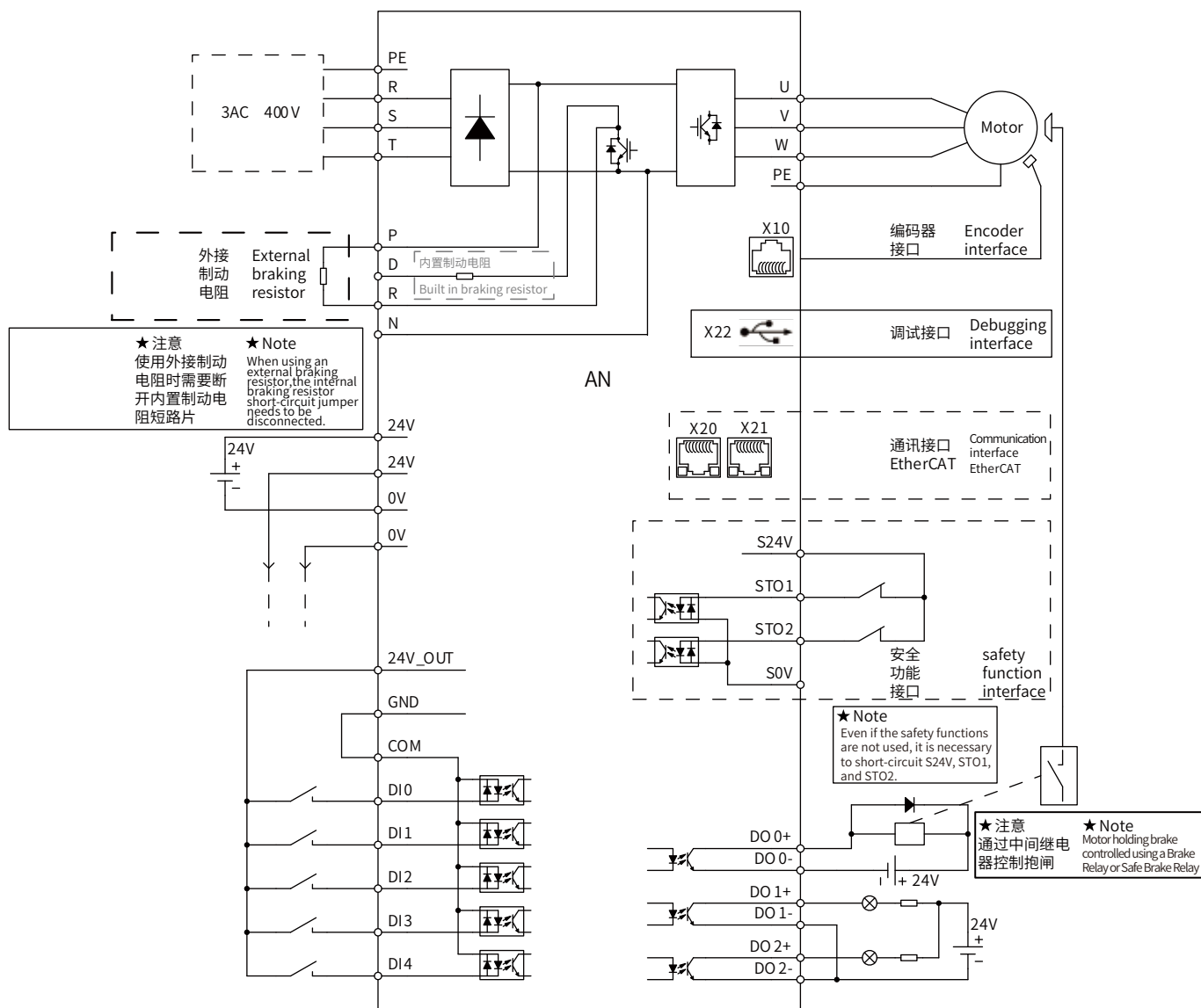
### 14.4 伺服驱动器特定技术数据

### 14.4 Technical data for servo drives

AN系列伺服驱动器		AN series servo drive	0.75kW	1.5kW	3kW
控制电源	Control power supply	输入电压 Input voltage	24VDC, ±10%		
		输入电流 Input current	1.5A max		
主电源	Main power supply	电压 Voltage	3AC 380V ~ 480VAC, ±10%		
		频率 Frequency	47Hz ~ 63Hz		
输入电流 (A)	Input current (A)		1.6	4.5	10.5
连续输出电流 (A)	Continuous output current (A)		1.9	5.3	12.3
瞬时最大输出电流 (A)	Instantaneous maximum output current (A)		5.7	15.9	36.9
冷却方式	Cooling method		Fan cooling		
冷却风量 (CFM)	Cooling Air Volume (CFM)		12.26	12.26	36.1
制动电阻	Braking resistor		Built in(100Ω/80W)	Built in(100Ω/80W)	Built in(50Ω/80W)
短路电流	Short-circuit current		Maximum short-circuit current ≤ 65kA		
尺寸 (宽x高x深, mm)	Dimensions(width x height x depth,mm)		57x179.5x186.4	57x179.5x186.4	80x179.5x196.4
重量 (kg)	Weight (kg)		1.3	1.3	1.7

### 14.5 伺服驱动器端子配线图

### 14.5 Servo drive terminal connection





### 14.6 接口端子信号定义

控制电源端子:采用带固定螺丝的脱落式端子,引脚间距3.5mm,线径范围0.5~1.5mm<sup>2</sup>。

### 14.6 Interface signal definitions

Control power terminal: Using detachable terminals with fixed screws, pin spacing 3.5mm, wire diameter range 0.5~1.5mm<sup>2</sup>.

端子序号 Terminal number	引脚序号 Pin number	信号名称 Signal name	功能定义 Function definition
X1	1	24V	输入24V 电源正 Positive terminal of 24V input power supply
	2	24V	
	3	0V	输入24V 电源负 Negative terminal of 24V input power supply
	4	0V	

主电源进线端子:采用带固定卡扣的脱落式端子,引脚间距7.62mm,线径范围0.2~2.5mm<sup>2</sup>。

Main power input terminal: Utilizes detachable terminals with fixed latch, pin spacing of 7.62mm, wire diameter range of 0.2~2.5mm<sup>2</sup>.

端子序号 Terminal number	引脚序号 Pin number	信号名称 Signal name	功能定义 Function definition
X2	1	PE	接地 Protecting Earthing
	2	R	
	3	S	连接三相电源 Three-phase power supply
	4	T	
	5	P	直流母线正 Positive terminal of DC busbar
	6	D	默认短接为使用内置制动电阻 Use the built-in braking resistor when short-circuiting.
	7	R	
	8	N	直流母线负 Negative terminal of DC busbar

电机端子:采用带固定卡扣的脱落式端子,引脚间距7.62mm,线径范围0.2~2.5mm<sup>2</sup>。

Motor terminals: Utilizes detachable terminals with fixed latch, pin spacing of 7.62mm, wire diameter range of 0.2~2.5mm<sup>2</sup>.

端子序号 Terminal number	引脚序号 Pin number	信号名称 Signal name	功能定义 Function definition
X3	1	U	连接伺服电机进线 Servo motor power line
	2	V	
	3	W	
	4	PE	接地 Protecting Earthing

安全功能端子:采用带固定螺丝的脱落式端子,引脚间距3.5mm,线径范围0.5~1.5mm<sup>2</sup>。

Safety function terminals: Utilizes detachable terminals with fixed screws, pin spacing of 3.5mm, wire diameter range of 0.5~1.5mm<sup>2</sup>.

端子序号 Terminal number	引脚序号 Pin number	信号名称 Signal name	功能定义 Function definition
X4	1	S0V	安全功能 24V电源 Safety function 24V power supply
	2	S24V	
	3	ST01	两路安全功能输入 Dual-channel safety function signal input
	4	ST02	



数字量输入输出端子:采用  
D-SUB15端子。

Digital input/output terminals:  
Utilizes D-SUB15 connectors.

端子序号 Terminal number	引脚序号 Pin number	信号名称 Signal name	功能定义 Function definition
X5	10	DIO	数字量输入 Digital input
	9	DI1	
	8	DI2	
	7	DI3	
	11	DI4	
	13	COM	输出24V电源 24V output power supply
	14	24V_OUT	
	15	GND	数字量输出 Digital output
	1	D00+	
	6	D00-	
	3	D01+	
	2	D01-	
	5	D02+	
	4	D02-	

编码器端子:采用RJ45母座。

Encoder terminals: Utilizes RJ45 female socket.

端子位置 Terminal number	引脚序号 Pin number	信号名称 Signal name	功能定义 Function definition
X10	1	TEMP+	电机温度检测 Motor temperature detection
	2	TEMP-	
	3	-	-
	4	RS485B	编码器数据信号 Encoder data signal
	5	RS485A	
	6	-	-
	7	5V	编码器5V电源 Encoder 5V power supply
	8	GND	

调试端子:采用标准MINI USB  
接口,端子序号为X22。

Debugging terminals: Utilizes  
standard MINI USB interface, terminal  
number is X22.

通讯端子:采用RJ45母座。

Communication terminals: Utilizes  
RJ45 female socket.

端子编码 Encoder 5V power supply	引脚序号 Pin number	信号名称 Signal name	功能定义 Function definition
X20, X21	1	TD+	数据发送+ Data transmission+
	2	TD-	数据发送- Data transmission-
	3	RD+	数据接收+ Data reception+
	4	-	-
	5	-	-
	6	RD-	数据接收- Data reception-
	7	-	-
	8	-	-

X20:EtherCAT IN,X21:  
EtherCAT OUT

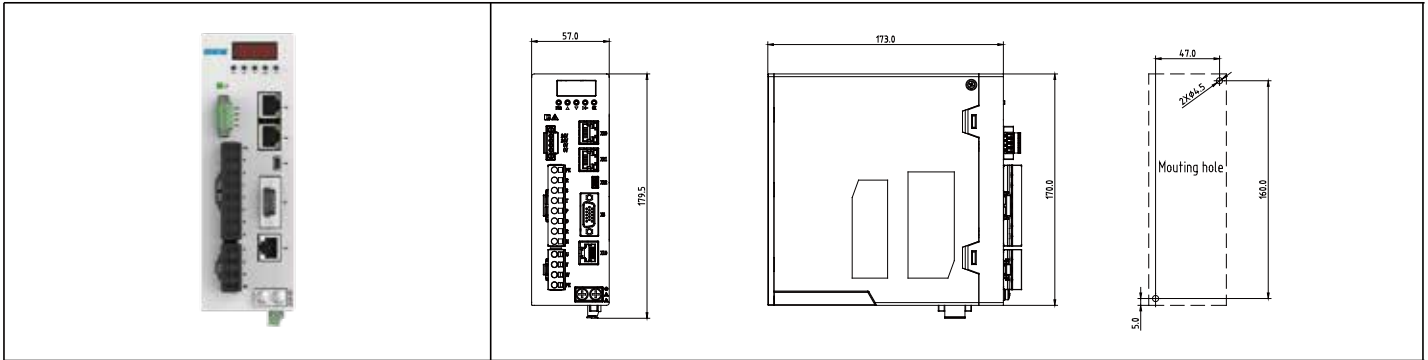
X20:EtherCAT IN,X21:  
EtherCAT OUT

**15 整机外形及安装尺寸图**

**15 Overall appearance and installation dimension diagram**

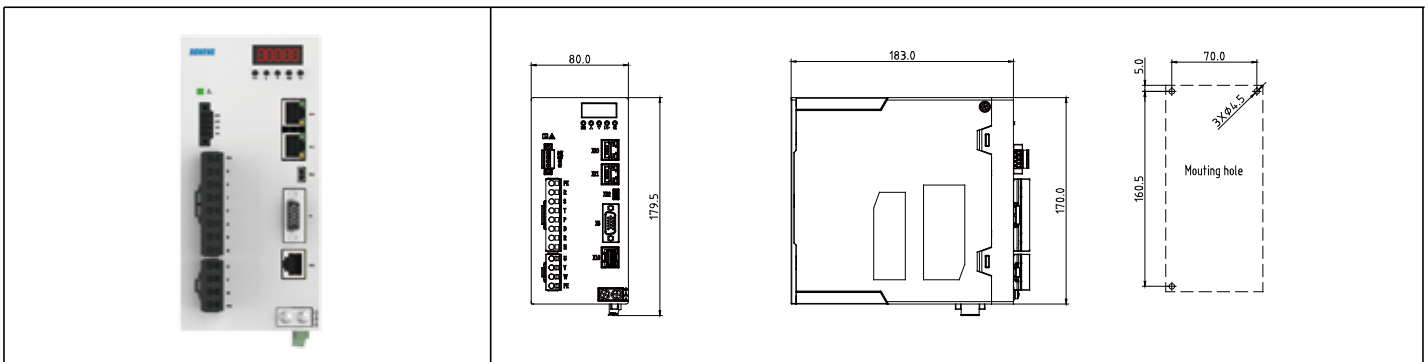
整机外形图及安装尺寸图，  
N1-N2功率范围，单位：mm  
N1(0.75kW-1.5kW)

Overall appearance diagram and  
installation dimension diagram,  
N1~N2 power range, unit: mm  
N1(0.75kW-1.5kW)



N2(3.0kW)

N2(3.0kW)



## 16 可选件

### 16.1 进线电抗器

当系统的故障率高时,需要加装进线电抗器以保护驱动器不受过大的谐波电流的干扰,改善驱动器的输入侧功率因数;防止过载,并将进线谐波限制在允许的值内,以确保驱动器达到期望的使用寿命。400V 50/60Hz AN系列驱动器可选的进线电抗器推荐型号如下表:

框架 Dimensions	伺服驱动器型号 Order number	额定电流 Rated current	电感 Inductance	订货号 Ordering Data
		(A)	(mH)	
N1	AN - B3A75-S-EC	2.3	2.8	A1 - H12-TB280
	AN - B3B15-S-EC	6.3	2	A1 - H12-TB200
N2	AN - B3B30-S-EC	14.7	0.93	A1 - H12-TA930

### 16.2 进线滤波器

进线滤波器的作用是抑制驱动器通过输入电源线所传输到公共电网中的电磁干扰,同时也衰减从电源线进入驱动器的干扰;在安装时请尽量靠近驱动器的输入端子侧进行安装,请使用驱动器专用的进线滤波器。400V 50/60Hz AN系列驱动器可选的进线滤波器推荐型号如下表:

框架 Dimensions	伺服驱动器型号 Order number	额定电流 Rated current	订货号 Ordering Data
		(A)	
N1	AN - B3A75-S-EC	10	A1 - H11-A-C10
	AN - B3B15-S-EC	10	A1 - H11-A-C10
N2	AN - B3B30-S-EC	20	A1 - H11-A-C20

## 16 Optional parts

### 16.1 Incoming Reactor

When the failure rate of the system is high, it is necessary to install an incoming reactor to protect the driver from the interference of large harmonic currents and improve the input power factor of the driver; Prevent overloading and limit incoming harmonics within allowable values to ensure that the driver reaches the expected service life. The recommended models of incoming reactors for 400V50/60Hz AN series drives are as follows:

### 16.2 Incoming filter

The function of the incoming filter is to suppress the electromagnetic interference transmitted by the driver through the input power line to the public power grid, while also attenuating the interference entering the driver from the power line; When installing, please try to install it as close to the input terminal side of the driver as possible, and use a dedicated input filter for the driver. The recommended models for optional incoming line filters for 400V 50/60Hz AN series drives are shown in the table below:

### 16.3 制动电阻

制动电阻用于使大转动惯量的负载迅速制动。在电机和负载制动时，动能转换成再生电能会返回到驱动器中，直流母线电压因此抬高，驱动器将这些再生的能量几乎全部消耗在制动电阻上；400V 50/60Hz AN系列驱动器可选的制动电阻推荐规格如下：

### 16.3 Braking resistor

The braking resistor is used to quickly brake a load with a large moment of inertia. During motor and load braking, the regenerated energy converted from kinetic energy will return to the driver, causing the DC bus voltage to rise. The driver will consume almost all of this regenerated energy on the braking resistor; The recommended specifications for the optional braking resistor of the 400V50/60Hz AN series driver are as follows:

驱动器		允许的最小阻值	2%ED的非频繁制动应用场合			20%ED的频繁制动应用场合			
框架	伺服驱动器型号		功率(kW)	阻值(Ω)	内置制动电阻	推荐值		博能订货型号	
Servo driver model		ALLOW minimum resistance value	2% ED for non frequent braking applications			20% ED for frequent braking applications			
Dimensions	Order number		Power (KW)	Resistance value(Ω)	Built in braking resistor	Recommended value		Boneng ordering model	
					功率(kW)	阻值(Ω)	订货号	等效制动电阻	
N1	AN-B3A75-S-EC	100 Ω	0.08	100	80W 100 Ω	0.3	240	A1-H02-A40-K-D24	400W 240 Ω
	AN-B3B15-S-EC	100 Ω	0.08	100	80W 100 Ω	0.6	130	A1-H02-A80-K-D13	800W 130 Ω
N2	AN-B3B30-S-EC	50 Ω	0.08	50	80W 50 Ω	1.2	75	A1-H02-B12-K-C75	1200W 75 Ω

制动电阻接线注意事项：

- 使用外接制动电阻时请将P、D之间短接线拆除，否则会导致制动管过流损坏；
- 请勿将外接制动电阻直接接到母线正负极，否则会导致炸机和跳闸；
- 请勿小于最小允许阻值，否则会导致过流报警或损坏驱动器；

Precautions for brake resistor wiring:

- When using an external brake resistor, please remove the short circuit between P and D, otherwise it may cause overcurrent damage to the brake IGBT;
- Do not directly connect the external braking resistor to the positive and negative poles of the bus, otherwise it may cause the machine to explode and trip;
- Do not exceed the minimum allowable resistance value, otherwise it may cause over-current alarm or damage to the drive;

# 博能产品集成图

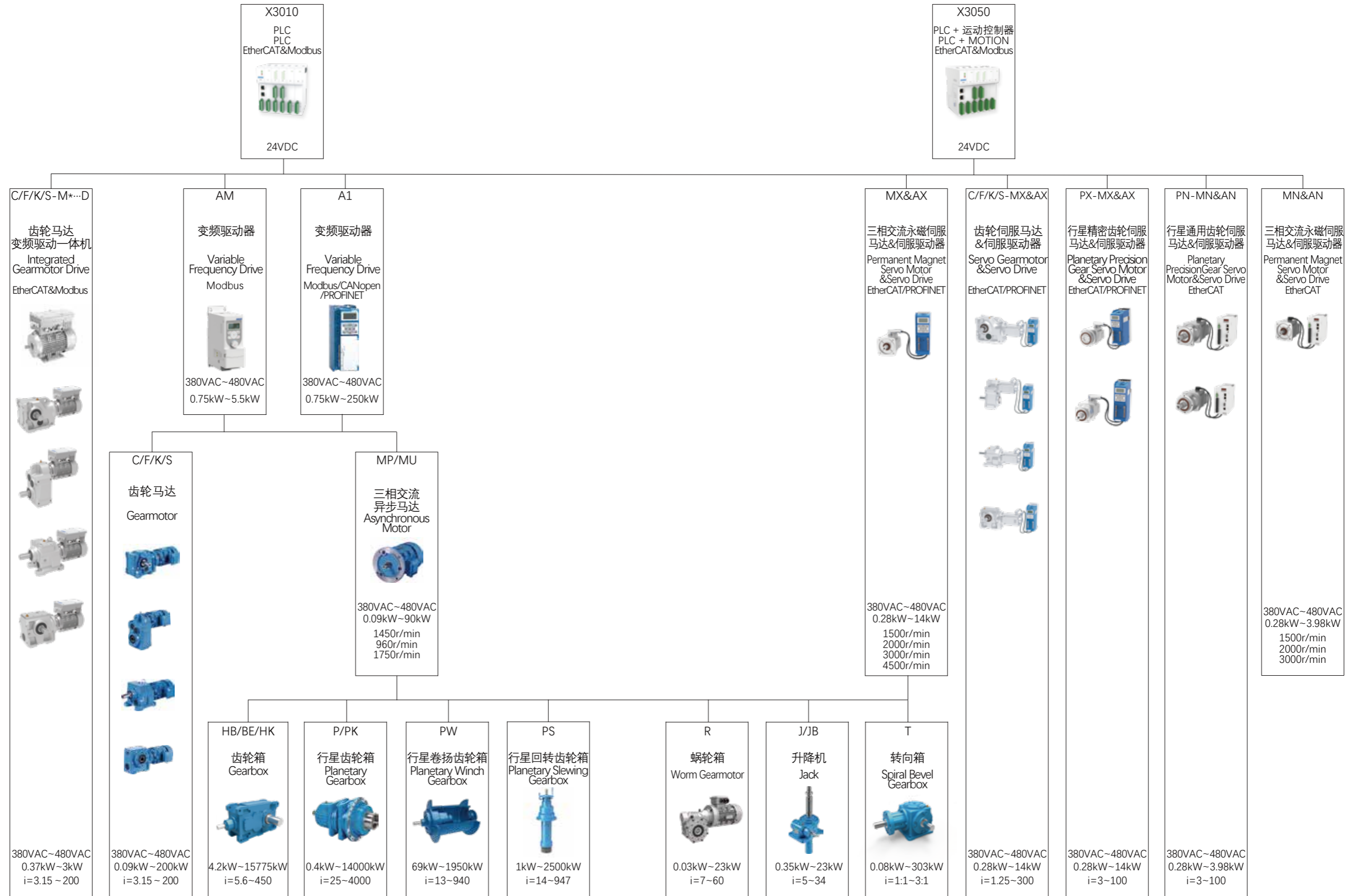
# Boneng Product Integration Diagram

CONTROL  
控制层

DRIVE  
驱动层

MOTOR  
马达层

GEAR  
齿轮层



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