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

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 10/2026
Selection Catalogue: C05.0056

BONENG

Boneng Transmission

Boneng Transmission enhances reliable, accurate, efficient and intelligent operation in the industry

控制器/驱动器/马达/
齿轮马达/齿轮箱

Controller/ Drive/ Motor/
Gearmotor/ Gearbox

PN-MN行星通用齿轮伺服马达&AN伺服驱动器

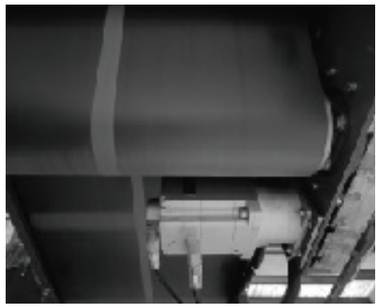
- 高精度、低噪音、低回程间隙；
- 直连伺服马达，结构紧凑，功率密度高；
- 高度的模块化设计，可实现更加快捷的生产和物流周期；
- 高可靠性和长设计寿命可有效降低您的使用成本及维护成本；
- 伺服马达不仅拥有坚固紧凑的结构及高防护等级，而且具有高效率、高过载承载能力等特点；其优良的径向跳动质量和细微的转矩波动，可实现高质量的工件表面加工；
- 支持高精度23位绝对值编码器，控制精度高；
- 支持STO安全转矩关断功能，设备更安全；
- 380VAC电压等级设计，省去变压器等额外配置；
- 支持博能DriveSoft上位机软件，调试更方便。

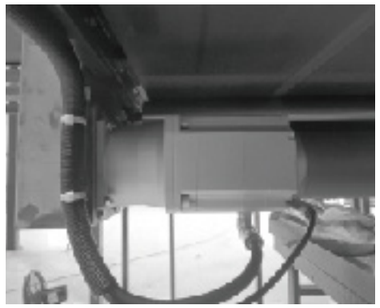
PN-MN Planetary Current Servo Gearmotor & AN Servo Drives

- High precision，low noise，low return clearance.
- Direct servo motor, compact structure, high power density.
- The highly modular design enables faster production and logistics cycles.
- High reliability and long design life can effectively reduce your use and maintenance costs.
- Servo motor not only has a strong compact structure and high protection grade, but also has characteristics such as high efficiency, high overload carrying capacity ;Its excellent radial runout quality and subtle torque fluctuation can realize high quality workpiece surface machining.
- Support high precision 23-bit absolute encoder, high control accuracy.
- Support STO safe torque turn-off function, more secure equipment. 380VAC voltage class design eliminates additional configuration such as transformers.
- Support Boneng DriveSoft upper computer software, debugging more convenient.

BONENG









产品广泛应用于机床、机器人、印刷机械、包装机械、纺织机械、自动化设备等各个领域。
博能传动公司总部和各大区域的技术专家以及各区域办事处的应用工程师、售后服务技师竭诚为您提供全面的技术咨询和完善的服务。

Products are widely used in machine tool，robots，printing machines，packaging machines，textile machinery，automation equipment and other fields.
Boneng Transmission company headquarters and major regional technical experts and regional offices of the application engineers, after-sales service technicians dedicated to provide you with comprehensive technical advice and perfect service.

目 录 Contents

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。

Selection precautions

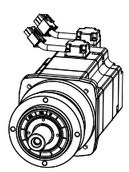
- ◆ The structural schematic diagram, exterior diagram, and other accompanying drawings are only examples and do not have strict scale requirements. (Size units not specified:mm).
- ◆ The weight indicated is only the average value and does not have any binding force.

⚠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。

⚠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.



PN-L-MN行星通用齿轮伺服马达

01.型号表示方法 …… 01
02.安装方位 …… 01
03.传动能力表和外形尺寸图 …… 03
04.输出轴允许的轴向力和径向力 …… 43
05.重量表 …… 43

PN-B-MN行星通用齿轮伺服马达

06.型号表示方法 …… 45
07.安装方位 …… 45
08.传动能力表和外形尺寸图 …… 47
09.输出轴允许的轴向力和径向力 …… 87
10.重量表 …… 87
11.轴端C型螺纹的中心孔尺寸表 …… 88
12. PNK直角精密行星齿轮伺服马达 …… 89
12.1 PNK-L-MN行星通用齿轮伺服马达型号表示方法 …… 91
12.2 PNK-B-MN行星通用齿轮伺服马达型号表示方法 …… 93

MN伺服马达

13.伺服马达概述 …… 95
14.伺服马达参数及特性曲线 …… 97

AN伺服驱动器

15.驱动器概述 …… 99
16.驱动器整机安装尺寸图 …… 104
17.驱动器可选件 …… 105

PN...L-MN Planetary Current Servo Gearmotor

01.Model representation method … 01
02.Installation orientation …… 01
03.Transmission capacity table and external dimension diagram … 03
04.Permissible axial and radial forces on the output shaft …. 43
05.Weight table …… 43

PN...B-MN Planetary Current Servo Gearmotor

06.Model representation method … 45
07.Installation orientation …… 45
08.Transmission capacity table and external dimension diagram … 47
09.Permissible axial and radial forces on the output shaft …. 87
10.Weight table …… 87
11.Table of center hole dimensions for C-shaped threads at the shaft end …… 88
12. PNK right angle precision planetary gear motor …… 89
12.1 PNK…L-MN Planetary Current Servo Gearmotor Model representation method …… 91
12.2 PNK…B-MN Planetary Current Servo Gearmotor Model representation method …… 93

MN servo motor

13.Overview of servo motors …… 95
14.Servo motor parameters and characteristic curves …… 97

AN servo driver

15.Driver overview …… 99
16.Installation dimension diagram of the entire driver … 104
17.Driver options …… 105



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 5 -

产品分类代号
PN=通用型
Product classification code
PN=Current type

行星齿轮级数
1=1级
2=2级
Planetary gear series
1=1stage
2=2stage

机座号
01/02/03/04/05
Frame size
01/02/03/04/05

产品系列代号
L=圆法兰
Product series code
L=Round flange

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
Output shaft form code
A=Smooth solid shaft
B=Flat key solid shaft
C=External spline solid shaft

公称速比代号
Nominal speed ratio code

安装方位
B5/V1/V3/S1
Installation orientation
B5/V1/V3/S1

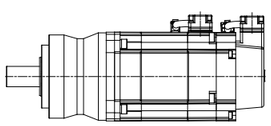
回程间隙
S=标准间隙
Return clearance
S=Standard clearance

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）
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.)

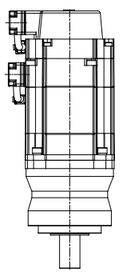
润滑油代号
5=合成润滑油
Lubricating oil code
5=Synthetic lubricating oil

2 PN...L-MN安装方位

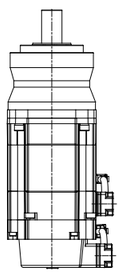
2 PN...L-MN Installation orientation



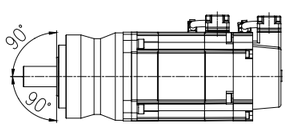
B5-水平 B5 level



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 **Connector location**

连接器类型
2=规格2
Connector type
2=specifications2

连接器方位 **Connector orientation**

防护等级
5=IP65
Protection class
5=IP65

热保护
0=无绕组保护
Thermal protection
0=Without thermal protection

制动器
N=无制动器
A=永磁制动器
Brake
N=Without brake
A=With brake

编码器
3=编码器
Encoder
3=Encoder

冷却方式
N=自然冷却
Cooling method
N=Natural cooling

轴孔径代号
1、2、3…
Axis aperture code
1、2、3…

轴伸形式P **Axis extension form P**

法兰形式F/L **Flange formF/L**

额定转速代号
E20=2000r/min
E30=3000r/min
Rated speed code
E20=2000r/min
E30=3000r/min

结构形式
1=紧凑型
Structure type
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

伺服马达：0.28kW 0.9N.m
0.9A 3000r/min

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

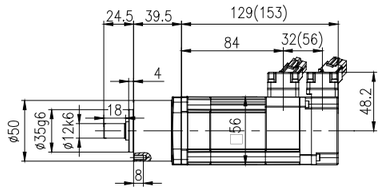
Servo motor：0.28kW 0.9N.m
0.9A 3000r/min

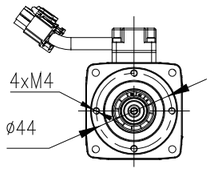
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

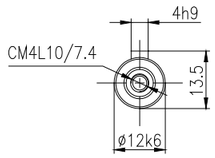
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101L□-B30-□□□□-MN028S1E30FP1	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□□-□□□

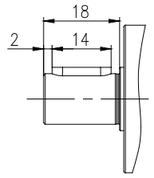
Without brake 18	(3m)B30	Without battery 10	B30(3m)
With brake 16	(5m)B50	With battery 11	B50(5m)
	(7m)B70		B70(7m)
	(10m)C10		C10(10m)

MN028S outline dimension diagram

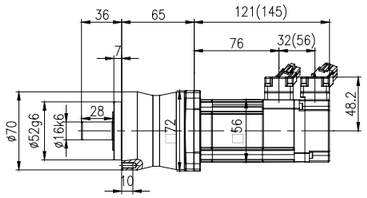


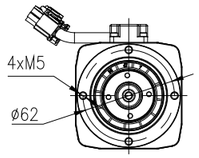


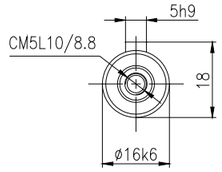


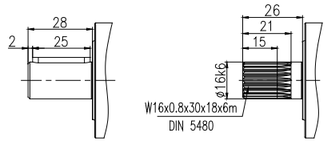


PN101L□-□□□-□□□□-MN028S1E30FP2

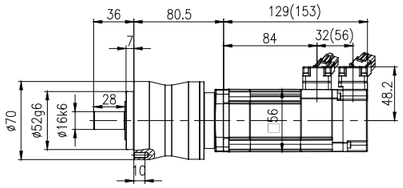


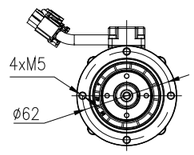


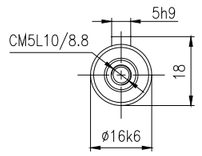


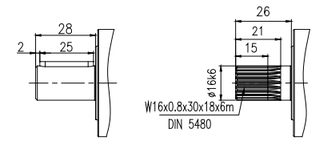


PN102L□-□□□-□□□□-MN028S1E30LP1

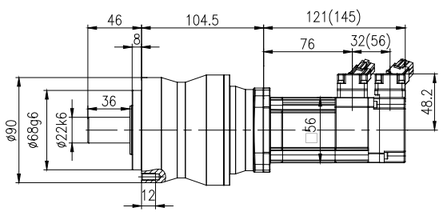


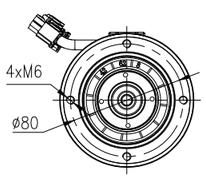


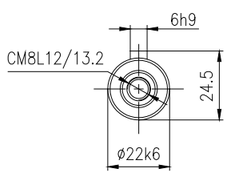


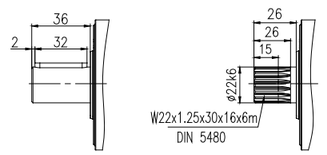


PN202L□-□□□-□□□□-MN028S1E30FP3







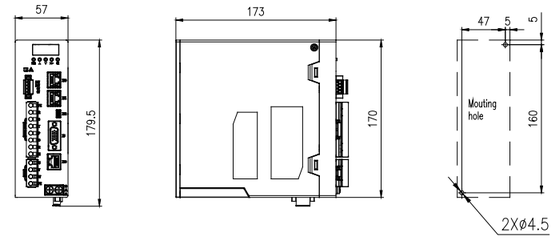


注：（）为带制动器尺寸

Note:（）is the size with brake

BONENG

Outline dimension diagram of the equipped servo driver



AN-B3A75-S-EC

伺服马达：0.42kW 1.3N.m
1A 3000r/min

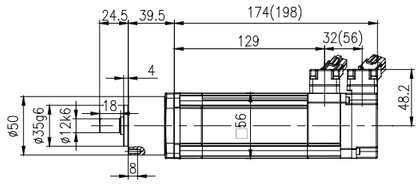
Servo motor：0.42kW 1.3N.m
1A 3000r/min

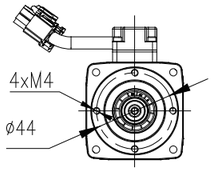
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

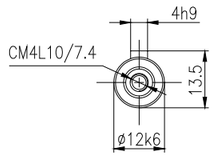
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101L□-B30-□□□□-MN028M1E30FP1	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□□-□□□

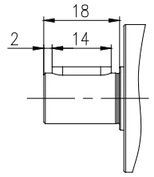
Without brake 18　(3m)B30　Without battery 10　B30(3m)
With brake 16　(5m)B50　With battery 11　B50(5m)
(7m)B70　B70(7m)
(10m)C10　C10(10m)

MN028M outline dimension diagram

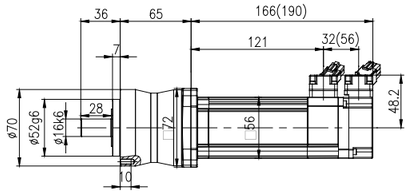


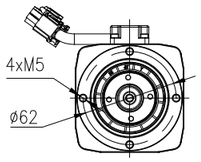


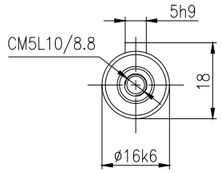


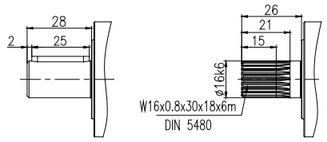


PN101L□-□□□-□□□□-MN028M1E30FP2

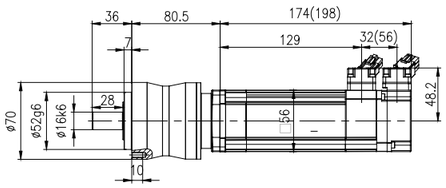


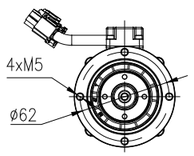


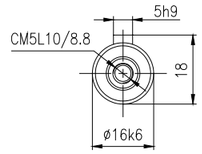


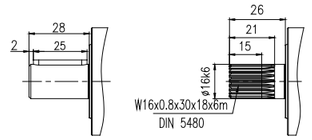


PN102L□-□□□-□□□□-MN028M1E30LP1

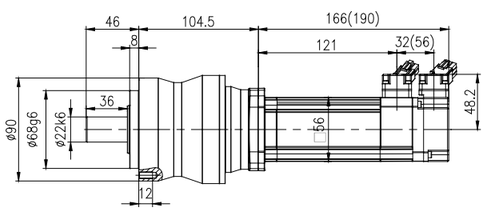


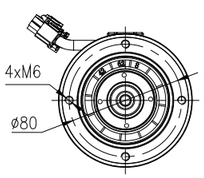


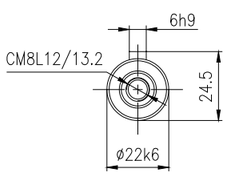


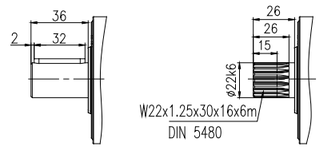


PN202L□-□□□-□□□□-MN028M1E30FP3







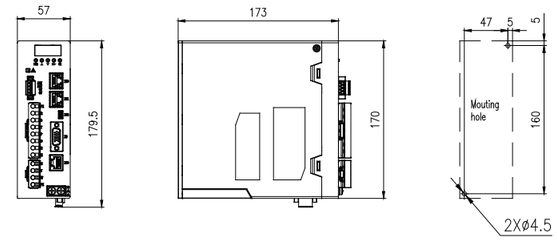


PN203L□-□□□-□□□□-MN028M1E30LP1

注：（）为带制动器尺寸　　Note:（）is the size with brake

BONENG

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

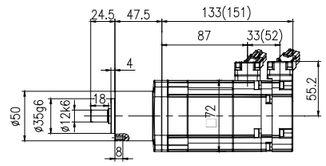
Servo motor：0.47kW 1.5N.m
1.15A 3000r/min

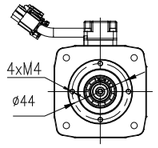
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

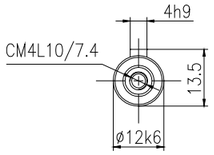
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101L□-B30-□□□□-MN036S1E30FP1	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□□-□□□

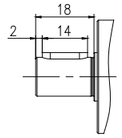
Without brake 18	(3m)B30	Without battery 10	B30(3m)
With brake 16	(5m)B50	With battery 11	B50(5m)
	(7m)B70		B70(7m)
	(10m)C10		C10(10m)

MN036S outline dimension diagram

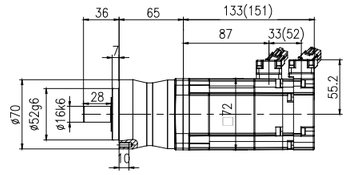


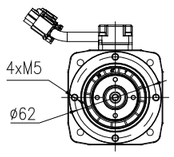


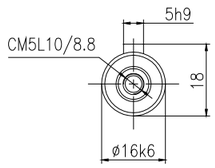


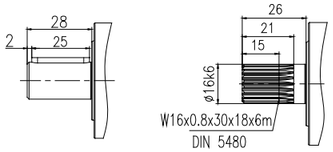


PN101L□-□□□-□□□□-MN036S1E30FP□

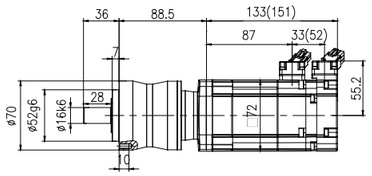


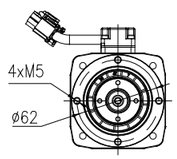


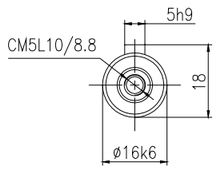


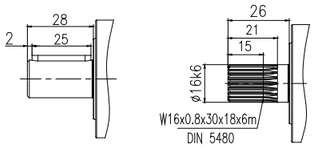


PN102L□-□□□-□□□□-MN036S1E30FP□

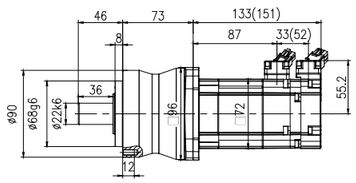


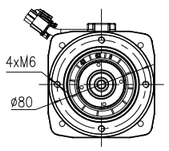


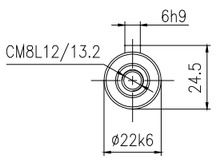


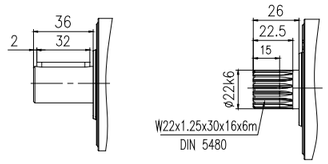


PN202L□-□□□-□□□□-MN036S1E30FP□

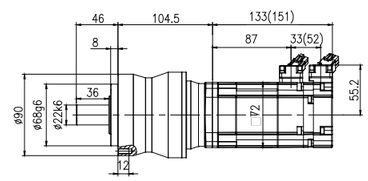


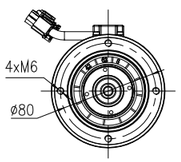


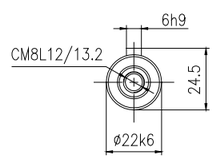


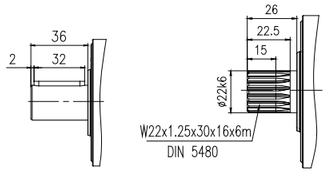


PN103L□-□□□-□□□□-MN036S1E30LP□

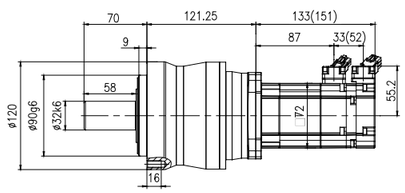


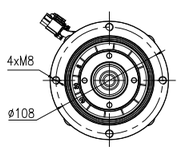


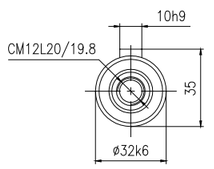


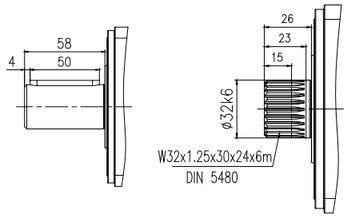


PN203L□-□□□-□□□□-MN036S1E30FP□







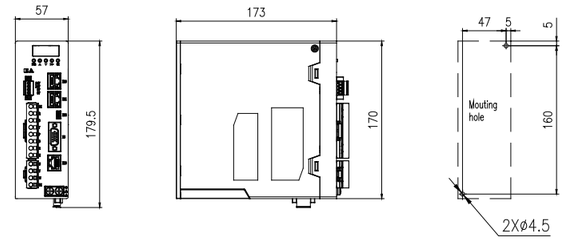


PN204L□-□□□-□□□□-MN036S1E30LP□

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

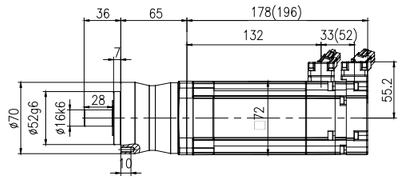
Servo motor：0.75kW 2.4N.m
1.6A 3000r/min

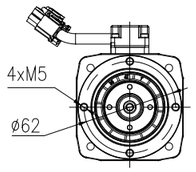
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

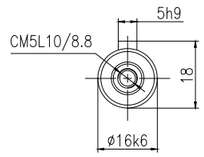
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102L□-B30-□□□□-MN036M1E30FP1	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□□-□□□

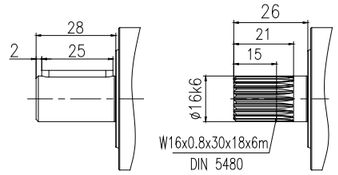
Without brake 18	(3m)B30	Without battery 10	B30(3m)
With brake 16	(5m)B50	With battery 11	B50(5m)
	(7m)B70		B70(7m)
	(10m)C10		C10(10m)

MN036M outline dimension diagram

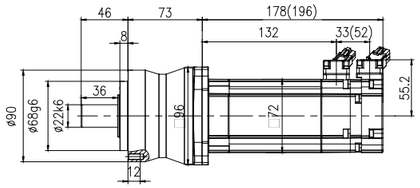


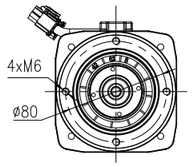


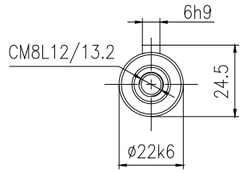


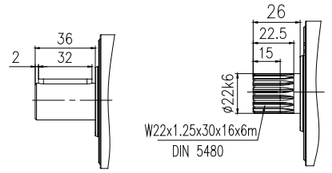


PN102L□-□□□-□□□□-MN036M1E30FP□

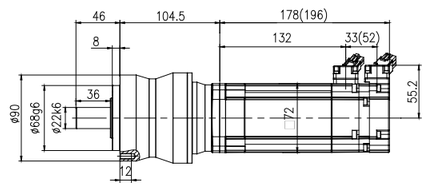


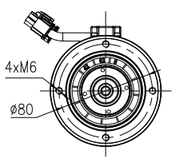


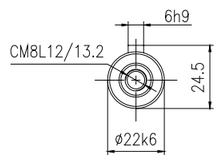


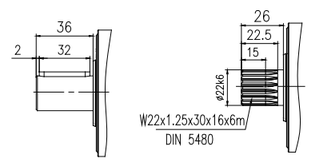


PN103L□-□□□-□□□□-MN036M1E30LP□

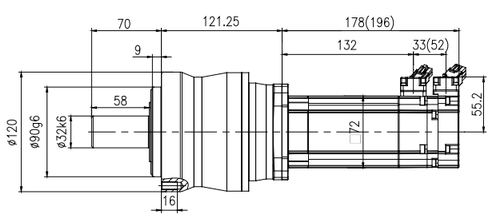


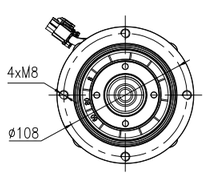


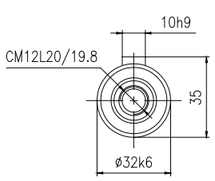


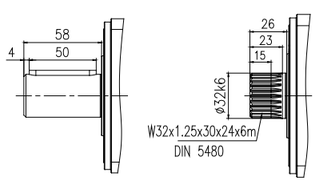


PN203L□-□□□-□□□□-MN036M1E30FP□









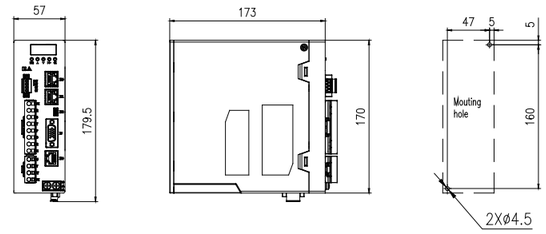
PN204L□-□□□-□□□□-MN036M1E30LP□

注：（）为带制动器尺寸

Note:（）is the size with brake

BONENG

Outline dimension diagram of the equipped servo driver



AN-B3A75-S-EC

伺服马达：1kW 3.2N.m 2.2A 3000r/min

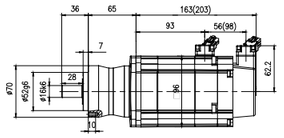
Servo motor：1kW 3.2N.m 2.2A 3000r/min

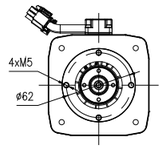
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

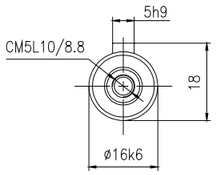
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102L□-B30-□□□□-MN048S1E30FP1	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□□-□□□

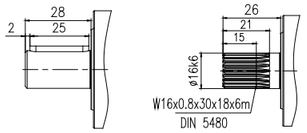
Without brake 18	(3m)B30	Without battery 10	B30(3m)
With brake 16	(5m)B50	With battery 11	B50(5m)
	(7m)B70		B70(7m)
	(10m)C10		C10(10m)

MN048S outline dimension diagram

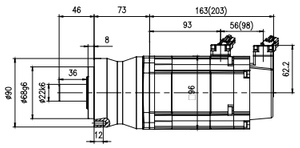


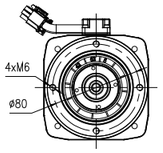


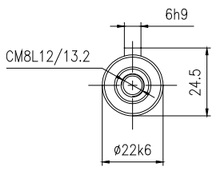


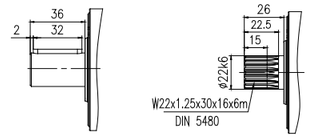


PN102L□-□□□-□□□□-MN048S1E30FP□

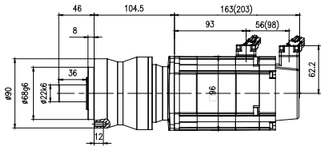


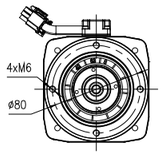


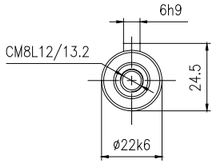


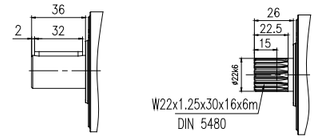


PN103L□-□□□-□□□□-MN048S1E30FP□

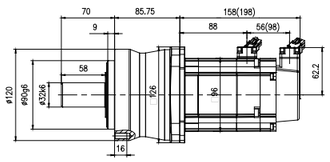


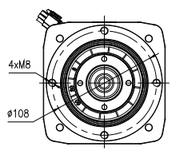


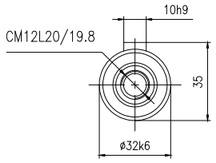


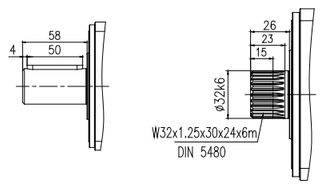


PN203L□-□□□-□□□□-MN048S1E30FP□

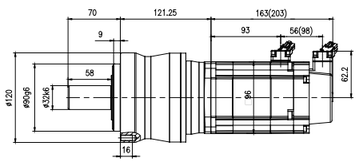


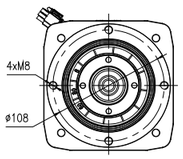


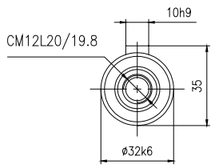


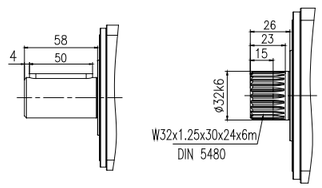


PN104L□-□□□-□□□□-MN048S1E30LP□

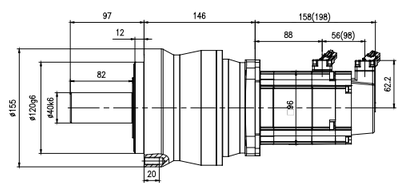


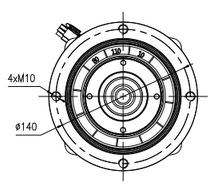


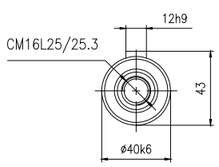


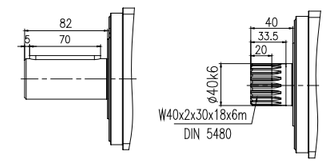


PN204L□-□□□-□□□□-MN048S1E30FP□









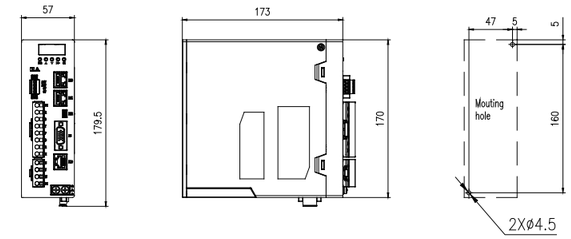
PN205L□-□□□-□□□□-MN048S1E30LP□

注：（）为带制动器尺寸

Note:（）is the size with brake

BONENG

Outline dimension diagram of the equipped servo driver



AN-B3B15-S-EC

伺服马达：1.5kW 4.8N.m 3A 3000r/min

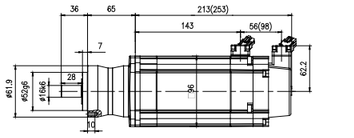
Servo motor：1.5kW 4.8N.m 3A 3000r/min

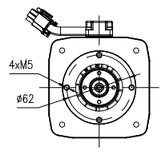
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

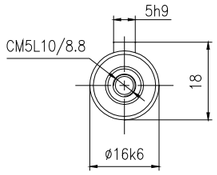
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102L□-B30-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B40-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102L□-B50-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B30-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B40-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B50-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-B70-□□□□-MN048M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103L□-C10-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C12-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C16-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203L□-C20-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-B70-□□□□-MN048M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104L□-C10-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C12-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C16-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C20-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C25-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C28-□□□□-MN048M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C30-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C35-□□□□-MN048M1E30FP3	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C40-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204L□-C50-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C28-□□□□-MN048M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C30-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C35-□□□□-MN048M1E30LP1	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C40-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C50-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-C70-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205L□-D10-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-EC	A2-H□□-A10-□□□	A2-H17-A□□-□□□

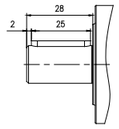
Without brake 18	(3m)B30	Without battery 10	B30(3m)
With brake 16	(5m)B50	With battery 11	B50(5m)
	(7m)B70		B70(7m)
	(10m)C10		C10(10m)

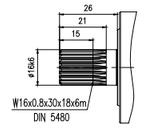
MN048M outline dimension diagram



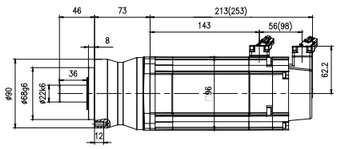


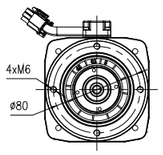


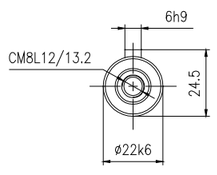


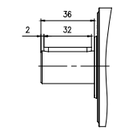


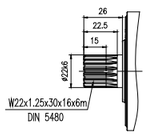
PN102L□-□□□-□□□□-MN048M1E30FP□



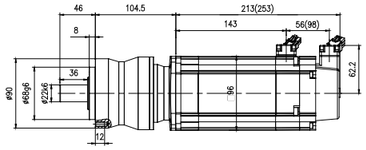


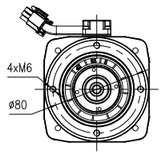


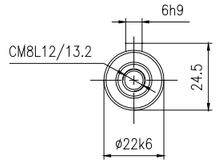


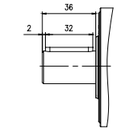


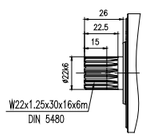
PN103L□-□□□-□□□□-MN048M1E30FP□



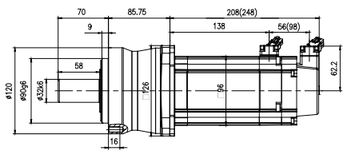


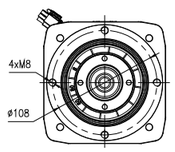


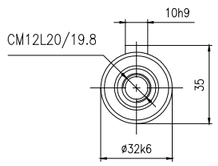


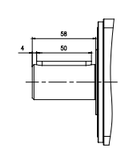


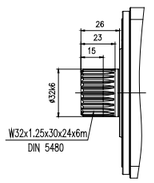
PN203L□-□□□-□□□□-MN048M1E30FP□



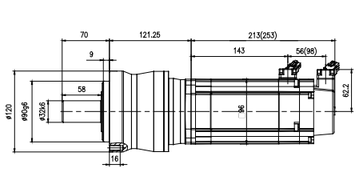


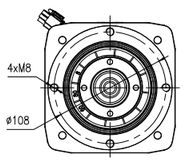


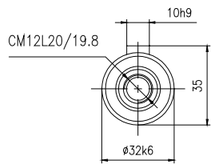


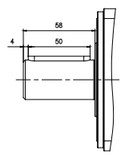


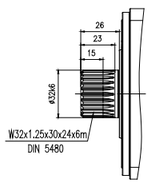
PN104L□-□□□-□□□□-MN048M1E30LP□



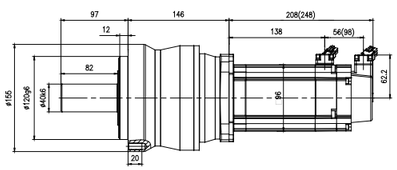


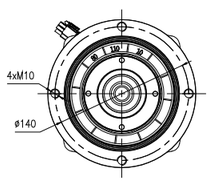


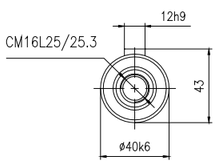


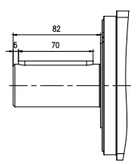


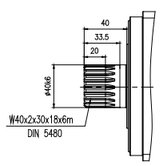
PN204L□-□□□-□□□□-MN048M1E30FP□











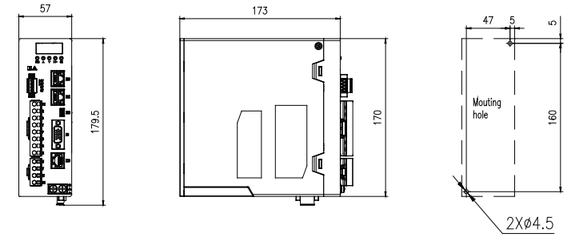
PN205L□-□□□-□□□□-MN048M1E30LP□

注：（）为带制动器尺寸

Note:（）is the size with brake

BONENG

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

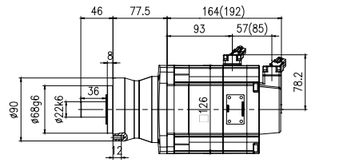
Servo motor：1.2kW 5.7N.m
2.8A 2000r/min

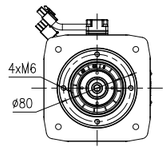
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

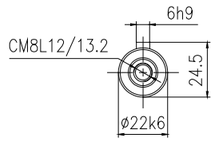
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103L□-B30-□□□□-MN063S1E20FP1	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□□-□□□

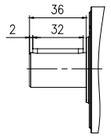
Without brake 18	(3m)B30	Without battery 10	B30(3m)
With brake 16	(5m)B50	With battery 11	B50(5m)
	(7m)B70		B70(7m)
	(10m)C10		C10(10m)

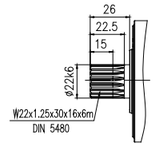
MN063S outline dimension diagram



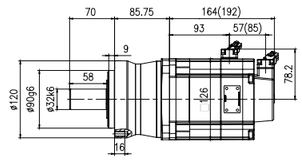


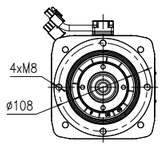


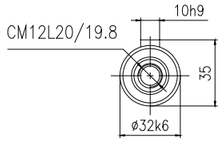


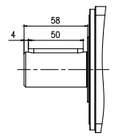


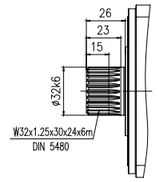
PN103L□-□□□-□□□□-MN063S1E20FP□



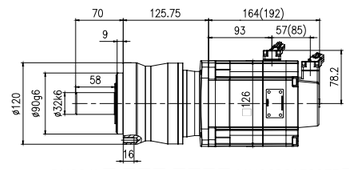


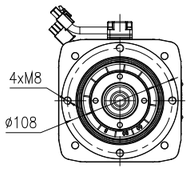


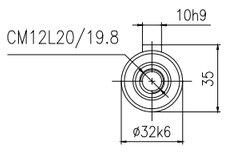


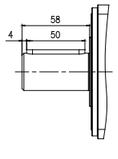


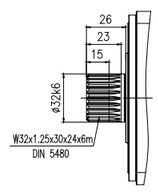
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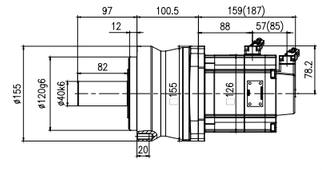


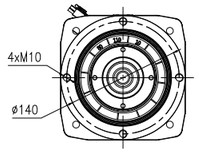


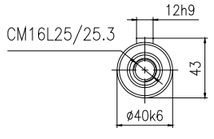


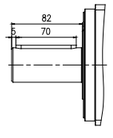


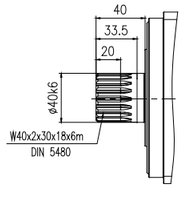
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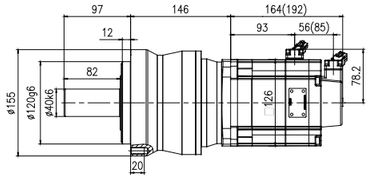


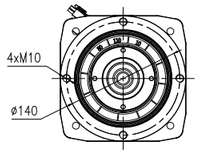


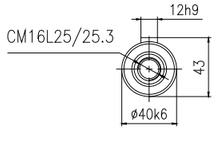


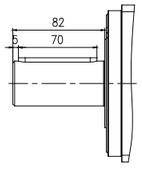


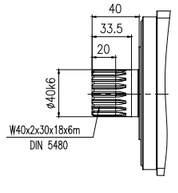
PN105L□-□□□-□□□□-MN063S1E20LP□











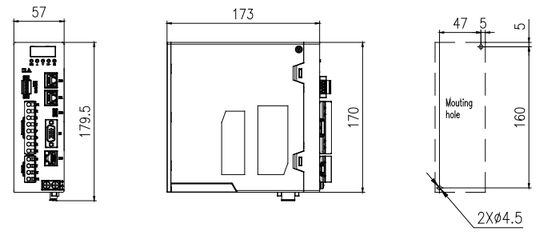
PN205L□-□□□-□□□□-MN063S1E20FP□

注：（）为带制动器尺寸

Note: () is the size with brake

BONENG

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

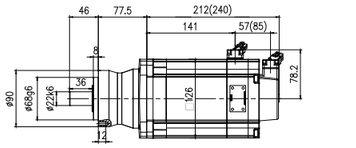
Servo motor：2.05kW 9.8N.m
4.6A 2000r/min

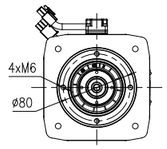
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

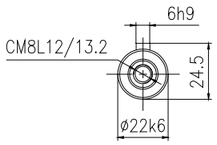
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103L□-B30-□□□□-MN063M1E20FP1	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□□-□□□

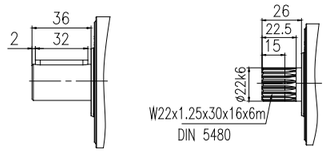
Without brake	18	(3m)B30	Without battery	10	B30(3m)
With brake	16	(5m)B50	With battery	11	B50(5m)
		(7m)B70			B70(7m)
		(10m)C10			C10(10m)

MN063M outline dimension diagram

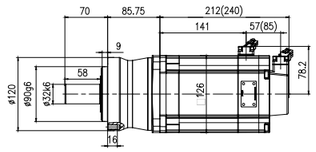


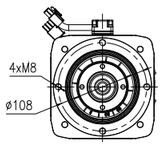


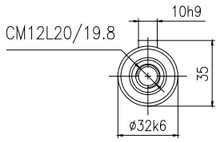


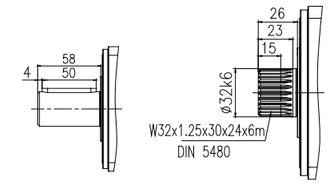


PN103L□-□□□-□□□□-MN063M1E20FP□

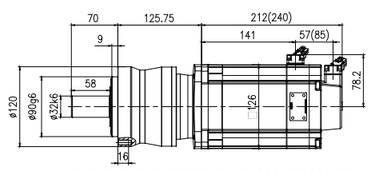


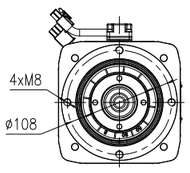


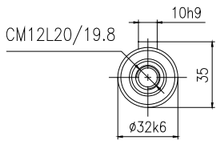


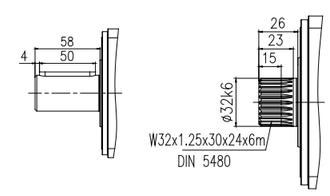


PN104L□-□□□-□□□□-MN063M1E20FP□

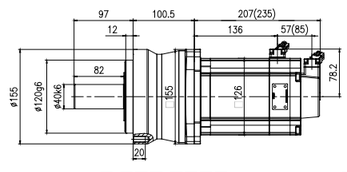


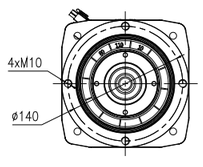


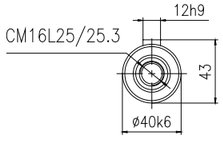


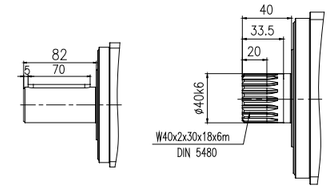


PN204L□-□□□-□□□□-MN063M1E20FP□

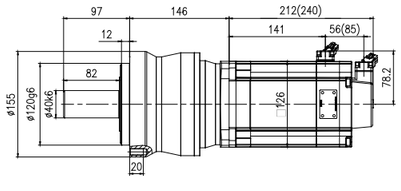


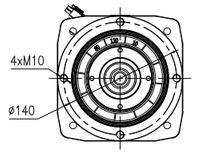


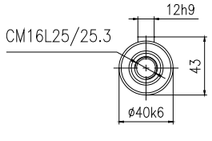


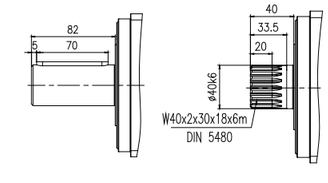


PN105L□-□□□-□□□□-MN063M1E20LP□







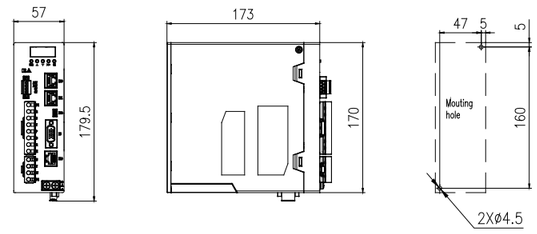


PN205L□-□□□-□□□□-MN063M1E20FP□

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

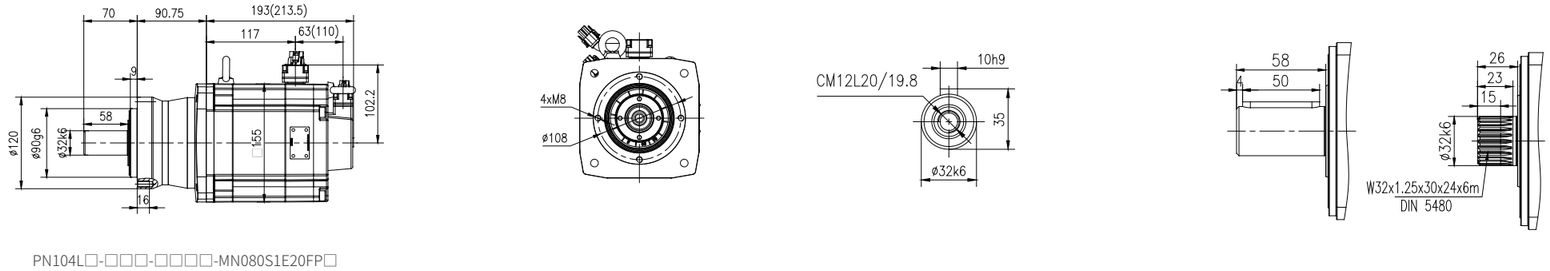
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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□□-□□□

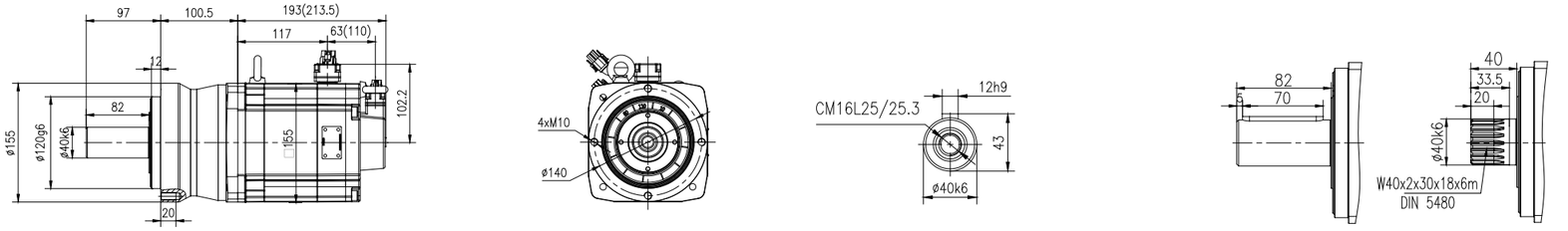
Without brake	18	(3m)B30	Without battery	10	B30(3m)
With brake	16	(5m)B50	With battery	11	B50(5m)
		(7m)B70			B70(7m)
		(10m)C10			C10(10m)

BONENG

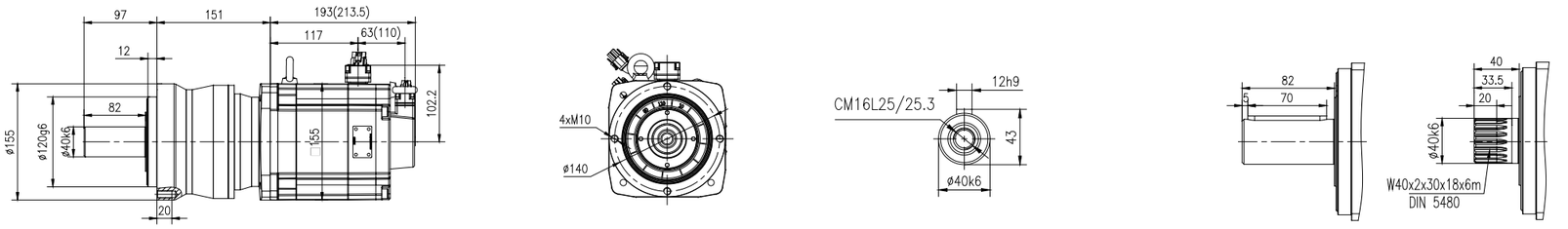
MN080S outline dimension diagram



PN104L□-□□□-□□□□-MN080S1E20FP□

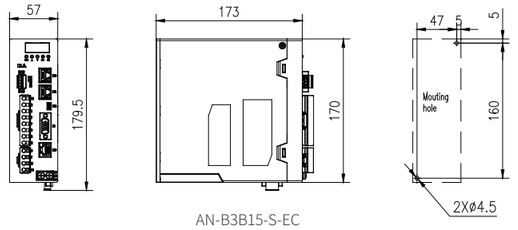


PN105L□-□□□-□□□□-MN080S1E20FP□



PN205L□-□□□-□□□□-MN080S1E20FP□

Outline dimension diagram of the equipped servo driver



AN-B3B15-S-EC

注：（）为带制动器尺寸

Note:（）is the size with brake

伺服马达：3.98kW 19N.m
8.1A 2000r/min

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

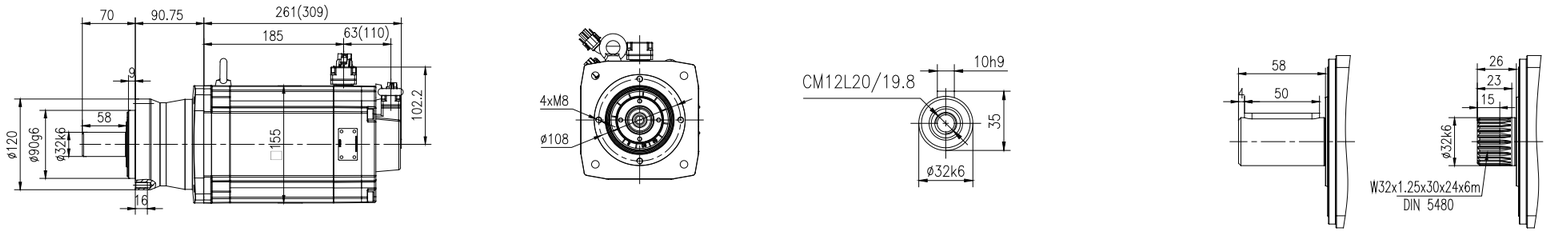
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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□□-□□□

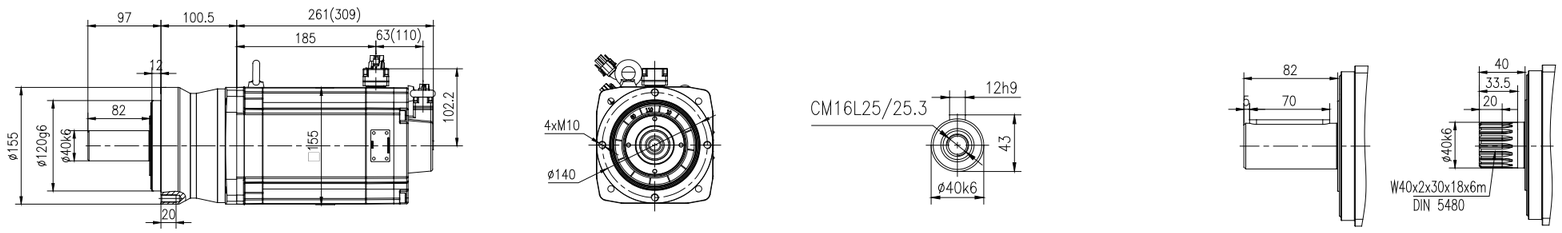
Without brake 18	(3m)B30	Without battery 10	B30(3m)
With brake 16	(5m)B50	With battery 11	B50(5m)
(7m)B70			B70(7m)
(10m)C10			C10(10m)

BONENG

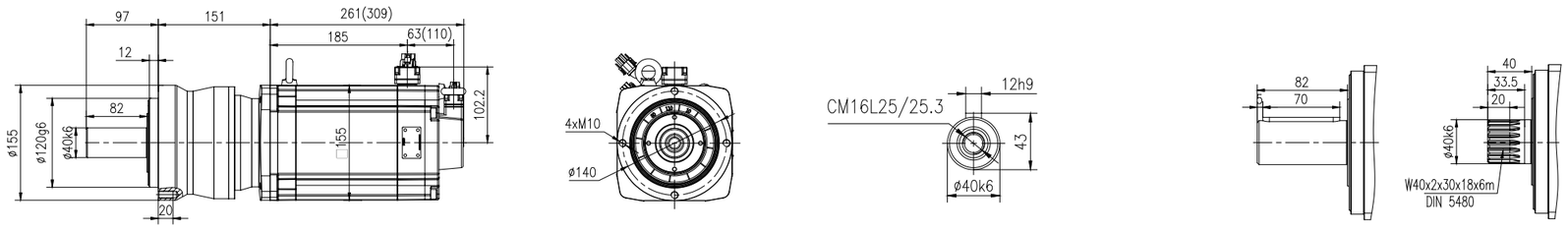
MN080M outline dimension diagram



PN104L□-□□□-□□□□-MN080M1E20FP□



PN105L□-□□□-□□□□-MN080M1E20FP□

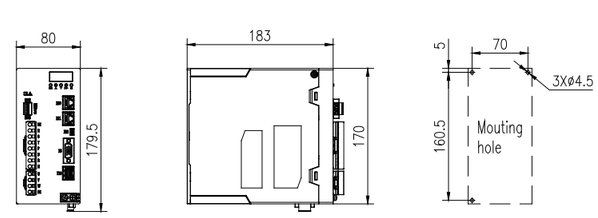


PN205L□-□□□-□□□□-MN080M1E20FP□

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 PN202L	PN103L PN203L	PN104L PN204L	PN105L PN205L
20000h 的径向力	Radial force for 20000h	$F_{r20000h}$	N	600	1300	2050	2500	3500
20000h 的轴向力	Axial force for 20000h	$F_{a20000h}$		250	500	750	1050	1750
30000h 的径向力	Radial force for 30000h	$F_{r30000h}$		500	1150	1750	2200	3050
30000h 的轴向力	Axial force for 20000h	$F_{a30000h}$		200	400	650	900	1550
20000h 的侧倾力矩	Tilting moment for 20000h	$M_{k20000h}$	Nm	30	93	173	266	464
30000h 的侧倾力矩	Tilting moment for 30000h	$M_{k30000h}$		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
机座号	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

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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

PN 2 03 B A - C20 - B5 S 1 5 -

产品分类代号
PN=通用型

Product classification code
PN=Current type

行星齿轮级数
1=1级
2=2级

Planetary gear series
1=1stage
2=2stage

机座号
01/02/03/04/05/06/07

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

产品系列代号
B=方法兰

Product series code
B=Square flange

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

Output shaft form code
A=Smooth solid shaft
B=Flat key solid shaft
C=External spline solid shaft

公称速比代号

Nominal speed ratio code

安装方位
B5/V1/V3/S1

Installation orientation
B5/V1/V3/S1

回程间隙
S=标准间隙

Return clearance
S=Standard clearance

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）

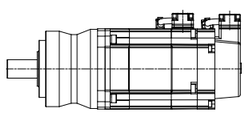
Output shaft bearing configuration
1=Deep groove ball bearing+Deep groove ball bearing (Output bearing configuration 1 Typical application scenarios: Couplings, spur gears with small radial force, etc.)
2= Angular contact ball bearing + tapered roller bearing(Output bearing configuration 2 Typical application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

润滑油代号
5=合成润滑油

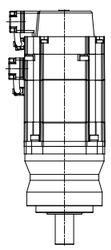
Lubricating oil code
5=Synthetic lubricating oil

7 PN…B-MN安装方位

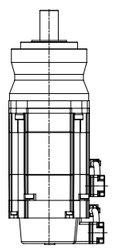
7 PN...B-MN Installation orientation



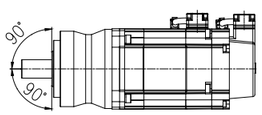
B5-水平 B5 level



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 °

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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
A=永磁制动器
N=Without brake
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 formF/L**

额定转速代号 **Rated speed code**
E20=2000r/min
E30=3000r/min
E20=2000r/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**

8 PN…B-MN传动能力表和外形尺寸图

伺服马达：0.28kW 0.9N.m
0.9A 3000r/min

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

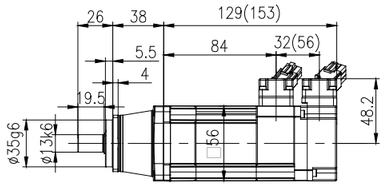
Servo motor：0.28kW 0.9N.m
0.9A 3000r/min

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^2	Jt 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

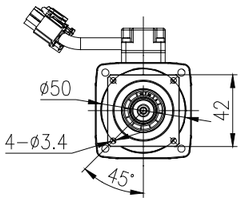
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101B□-B30-□□□□-MN028S1E30FP1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

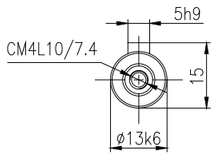
EtherCAT=EC	Without brake 18	(3m)B30	Without battery 10	B30(3m)	
PROFINET=PN	With brake 16	(5m)B50	With battery 11	B50(5m)	
		(7m)B70		B70(7m)	
		(10m)C10		C10(10m)	

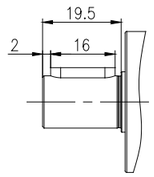
MN028S outline dimension diagram

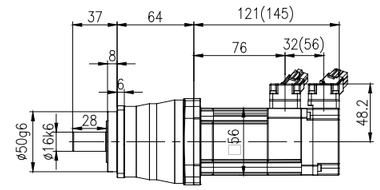


PN101B□-□□□-□□□□-MN028S1E30FP□

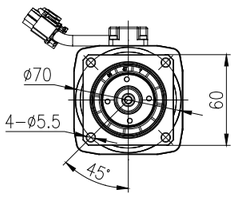


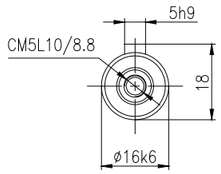


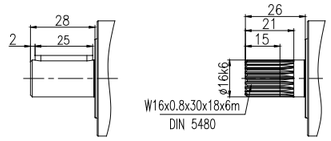


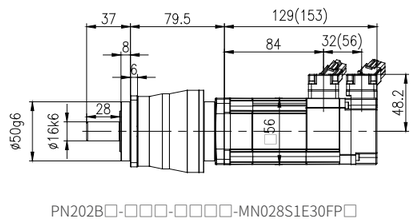


PN102B□-□□□-□□□□-MN028S1E30LP□

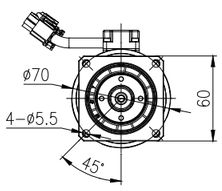


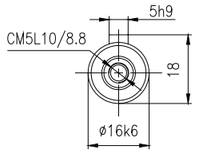


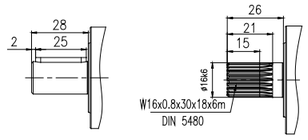


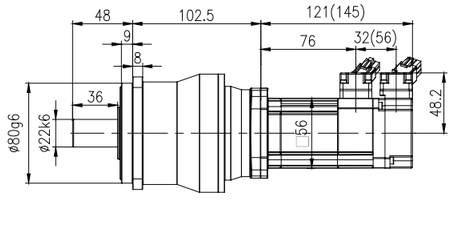


PN202B□-□□□-□□□□-MN028S1E30FP□

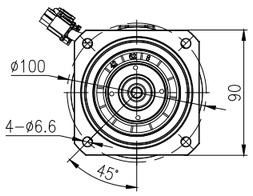


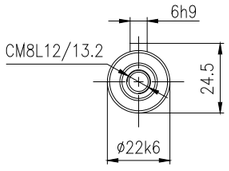


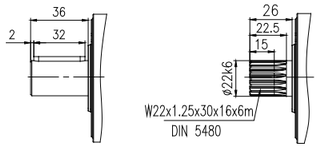




PN203B□-□□□-□□□□-MN028S1E30LP□





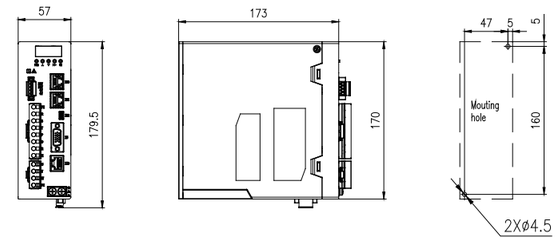


注：（）为带制动器尺寸

Note:（）is the size with brake

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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 $kgcm^2$	Jt 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

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-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B40-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN101B□-B50-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B70-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-C10-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C12-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C16-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C20-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN202B□-C25-□□□□-MN028M1E30FP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C28-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C30-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C35-□□□□-MN028M1E30LP1	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C40-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C50-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C70-□□□□-MN028M1E30LP2	10012	20012	AN-B3A75-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□

EtherCAT=EC
PROFINET=PN

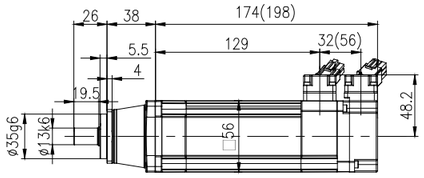
Without brake 18
With brake 16

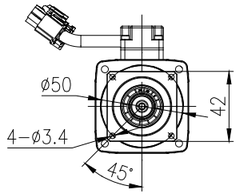
(3m)B30
(5m)B50
(7m)B70
(10m)C10

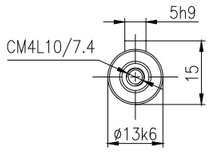
Without battery 10
With battery 11

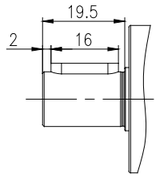
B30(3m)
B50(5m)
B70(7m)
C10(10m)

MN028M outline dimension diagram

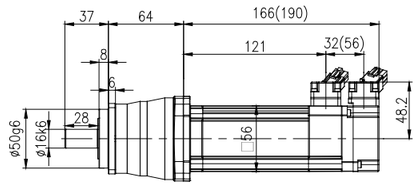


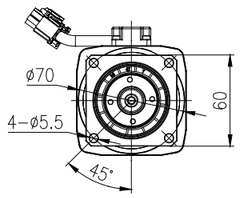


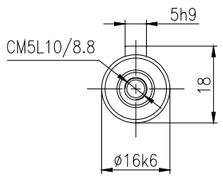


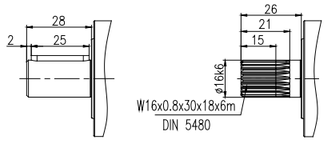


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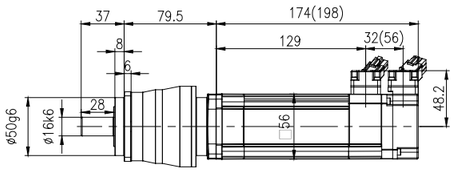


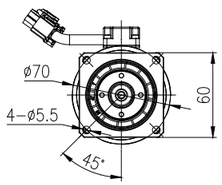


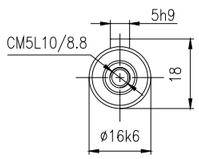


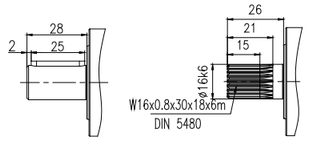


PN102B□-□□□-□□□□-MN028M1E30LP1

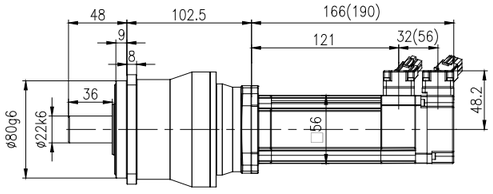


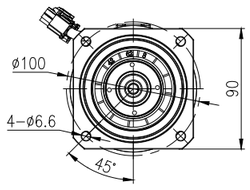


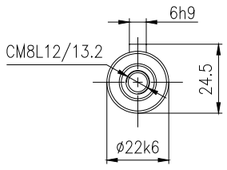


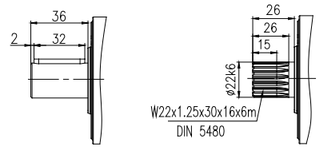


PN202B□-□□□-□□□□-MN028M1E30FP3







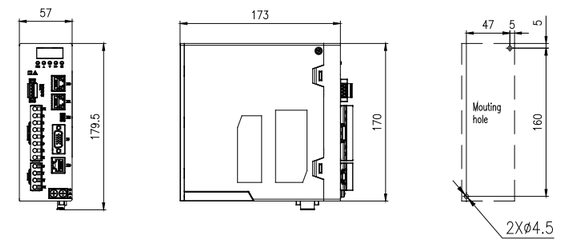


PN203B□-□□□-□□□□-MN028M1E30LP1

注：（）为带制动器尺寸　　Note:（）is the size with brake

BONENG

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

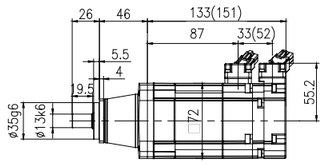
Servo motor：0.47kW 1.5N.m
1.15A 3000r/min

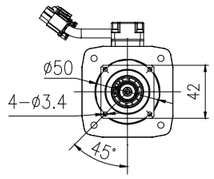
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

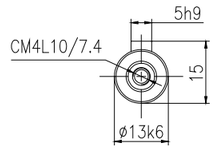
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN101B□-B30-□□□□-MN036S1E30FP1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

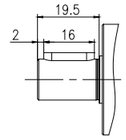
EtherCAT=EC	Without brake 18	(3m)B30	Without battery 10	B30(3m)
PROFINET=PN	With brake 16	(5m)B50	With battery 11	B50(5m)
		(7m)B70		B70(7m)
		(10m)C10		C10(10m)

MN036S outline dimension diagram

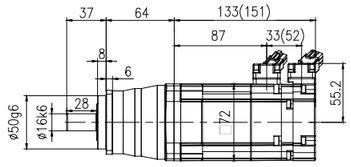


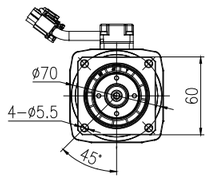


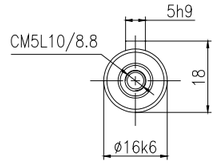


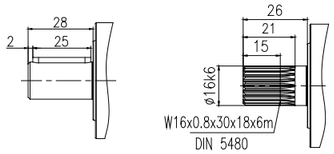


PN101B□-□□□-□□□□-MN036S1E30FP□

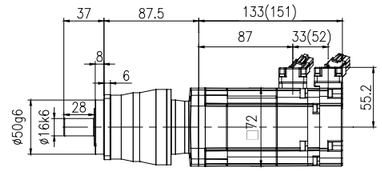


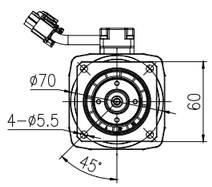


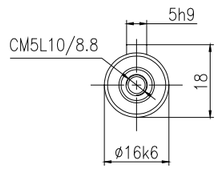


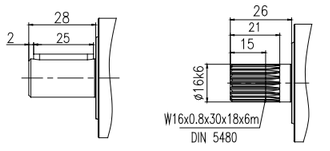


PN102B□-□□□-□□□□-MN036S1E30FP□

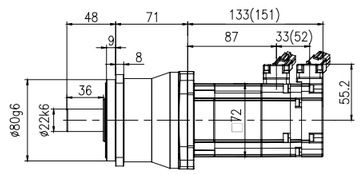


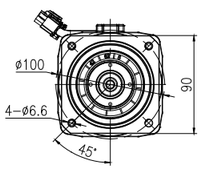


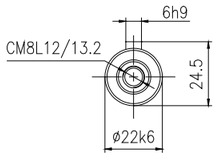


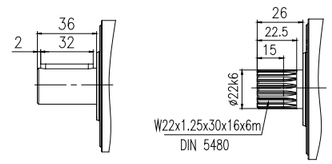


PN202B□-□□□-□□□□-MN036S1E30FP□

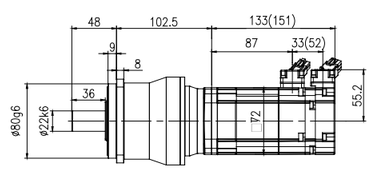


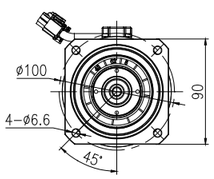


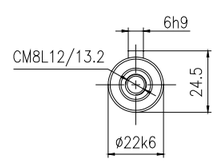


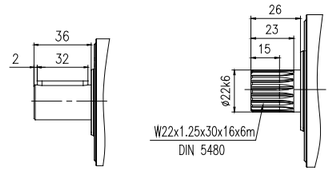


PN103B□-□□□-□□□□-MN036S1E30LP□

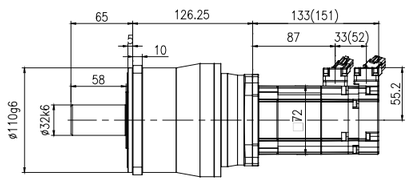


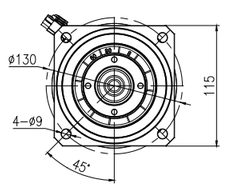


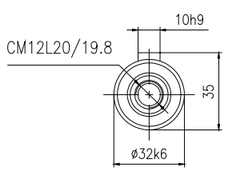


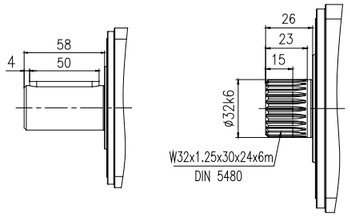


PN203B□-□□□-□□□□-MN036S1E30FP□





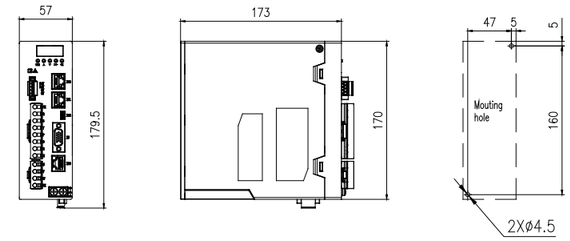




注：（）为带制动器尺寸

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

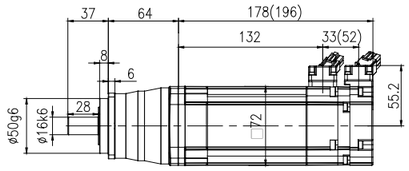
Servo motor：0.75kW 2.4N.m
1.6A 3000r/min

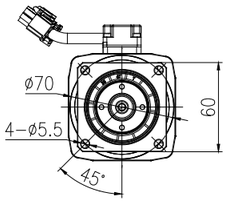
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

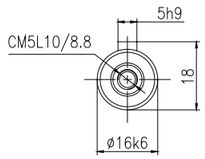
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102B□-B30-□□□□-MN036M1E30FP1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

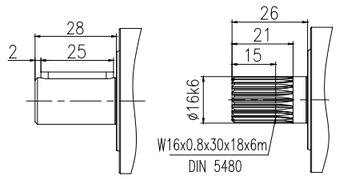
EtherCAT=EC	Without brake 18	(3m)B30	Without battery 10	B30(3m)
PROFINET=PN	With brake 16	(5m)B50	With battery 11	B50(5m)
		(7m)B70		B70(7m)
		(10m)C10		C10(10m)

MN036M outline dimension diagram

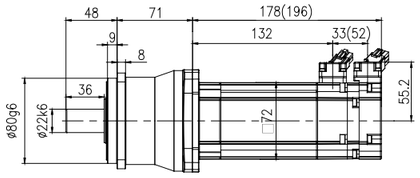


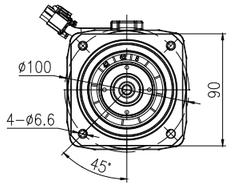


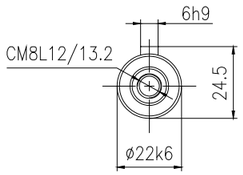


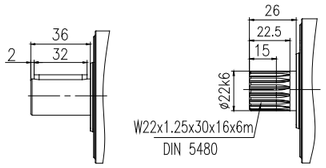


PN102B□-□□□-□□□□-MN036M1E30FP□

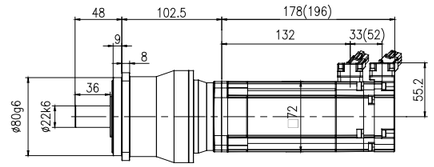


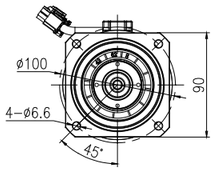


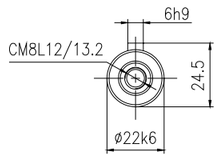


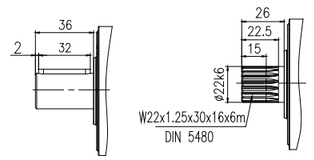


PN103B□-□□□-□□□□-MN036M1E30LP□

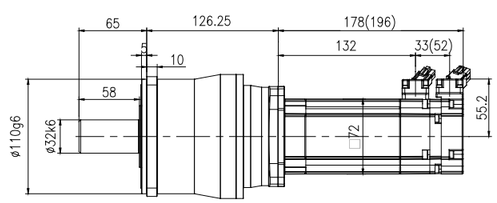


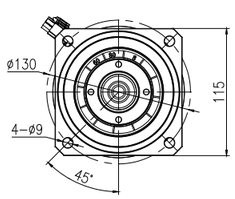


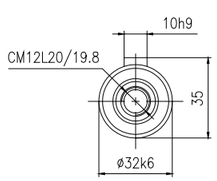


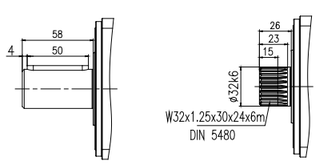


PN203B□-□□□-□□□□-MN036M1E30FP□









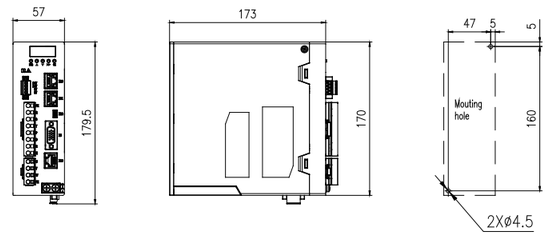
PN204B□-□□□-□□□□-MN036M1E30LP□

注：（）为带制动器尺寸

Note:（）is the size with brake

BONENG

Outline dimension diagram of the equipped servo driver



AN-B3A75-S-EC

伺服马达：1kW 3.2N.m 2.2A 3000r/min

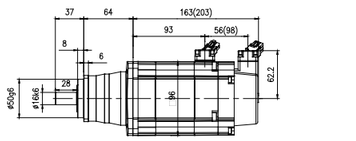
Servo motor：1kW 3.2N.m 2.2A 3000r/min

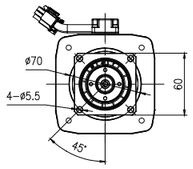
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

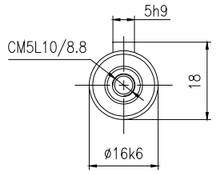
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102B□-B30-□□□□-MN048S1E30FP1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

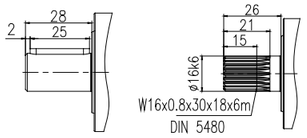
EtherCAT=EC	Without brake 18	(3m)B30	Without battery 10	B30(3m)
PROFINET=PN	With brake 16	(5m)B50	With battery 11	B50(5m)
		(7m)B70		B70(7m)
		(10m)C10		C10(10m)

MN048S outline dimension diagram

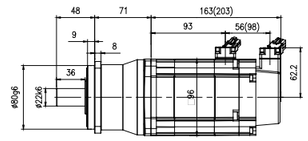


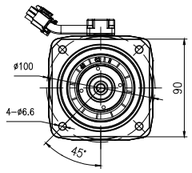


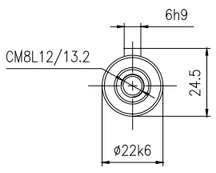


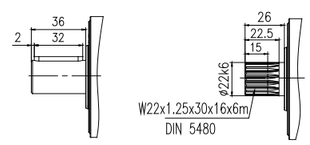


PN102B□-□□□-□□□□-MN048S1E30FP□

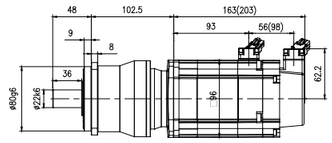


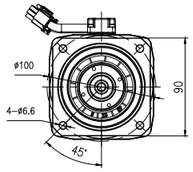


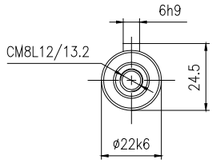


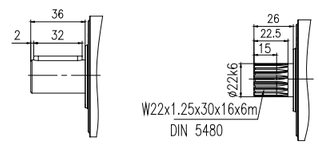


PN103B□-□□□-□□□□-MN048S1E30FP□

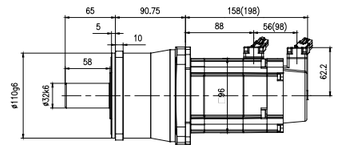


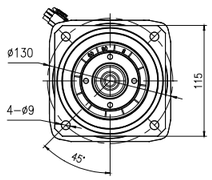


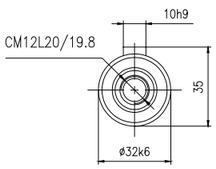


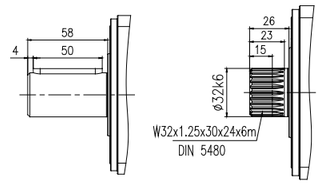


PN203B□-□□□-□□□□-MN048S1E30FP□

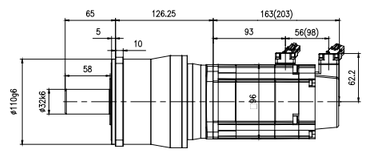


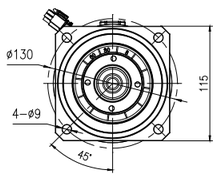


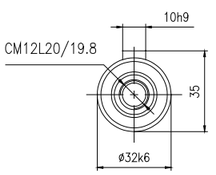


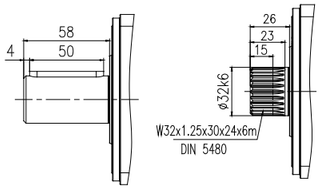


PN104B□-□□□-□□□□-MN048S1E30LP□

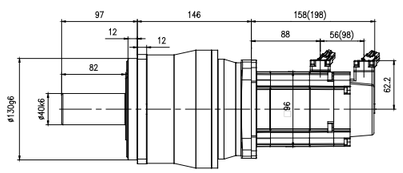


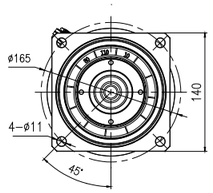


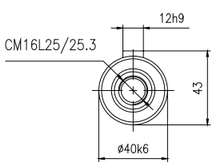


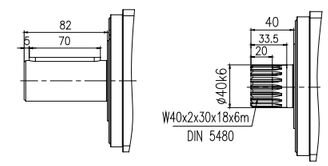


PN204B□-□□□-□□□□-MN048S1E30FP□









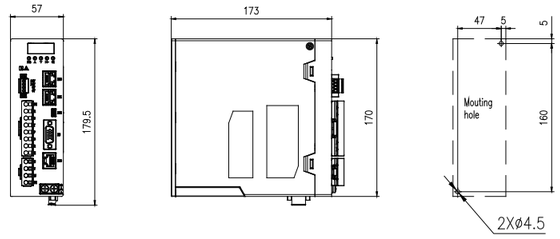
PN205B□-□□□-□□□□-MN048S1E30LP□

注：（）为带制动器尺寸

Note: () is the size with brake

BONENG

Outline dimension diagram of the equipped servo driver



AN-B3B15-S-EC

伺服马达：1.5kW 4.8N.m 3A 3000r/min

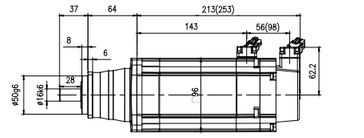
Servo motor：1.5kW 4.8N.m 3A 3000r/min

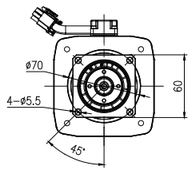
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

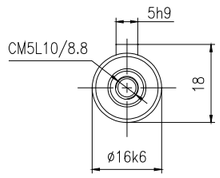
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN102B□-B30-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B40-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN102B□-B50-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B30-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B40-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B50-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B70-□□□□-MN048M1E30FP3	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-C10-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C12-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C16-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN203B□-C20-□□□□-MN048M1E30FP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MN048M1E30LP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C12-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C16-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C20-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C25-□□□□-MN048M1E30FP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C28-□□□□-MN048M1E30FP3	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C30-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C35-□□□□-MN048M1E30FP3	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C40-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C50-□□□□-MN048M1E30FP4	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MN048M1E30LP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C30-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MN048M1E30LP1	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C50-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C70-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-D10-□□□□-MN048M1E30LP2	10212	20212	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□

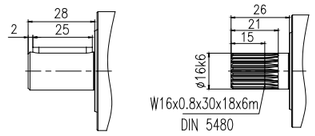
EtherCAT=EC	Without brake 18	(3m)B30	Without battery 10	B30(3m)
PROFINET=PN	With brake 16	(5m)B50	With battery 11	B50(5m)
		(7m)B70		B70(7m)
		(10m)C10		C10(10m)

MN048M outline dimension diagram

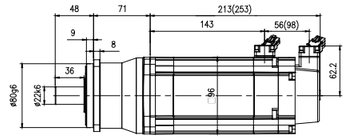


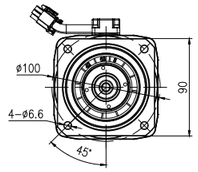


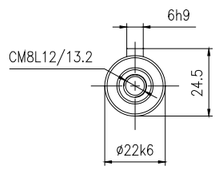


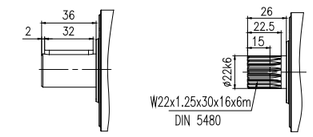


PN102B□-□□□-□□□□-MN048M1E30FP□

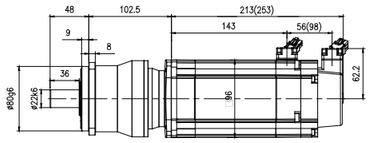


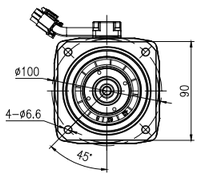


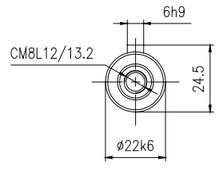


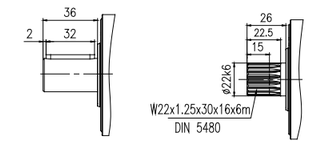


PN103B□-□□□-□□□□-MN048M1E30FP□

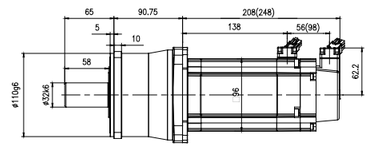


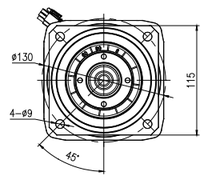


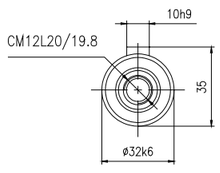


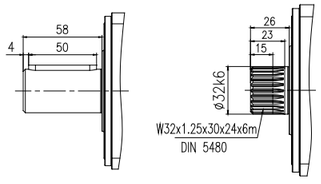


PN203B□-□□□-□□□□-MN048M1E30FP□

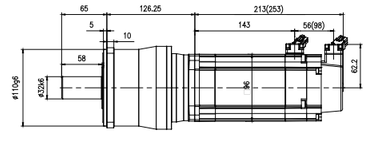


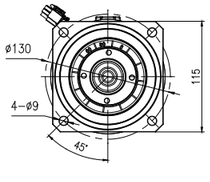


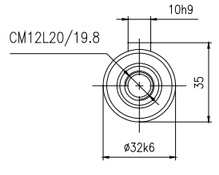


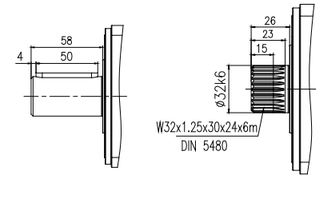


PN104B□-□□□-□□□□-MN048M1E30LP□

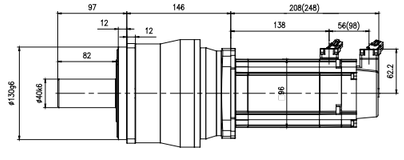


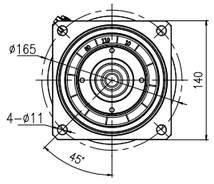


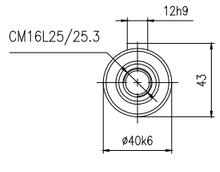


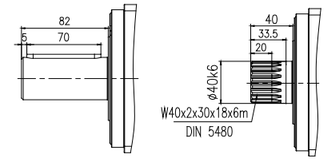


PN204B□-□□□-□□□□-MN048M1E30FP□







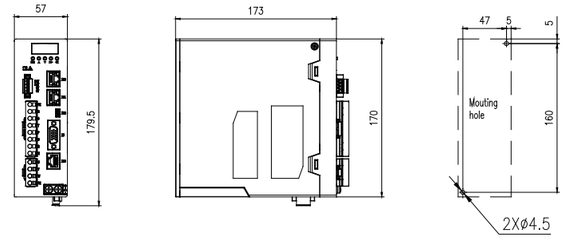


PN205B□-□□□-□□□□-MN048M1E30LP□

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：1.2kW 5.7N.m
2.8A 2000r/min

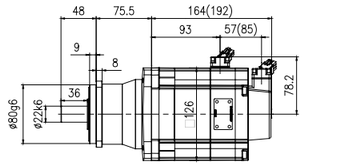
Servo motor：1.2kW 5.7N.m
2.8A 2000r/min

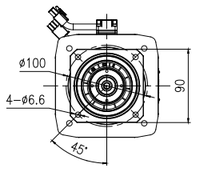
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

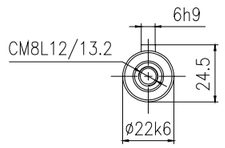
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103B□-B30-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B40-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B50-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B70-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-C10-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B30-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B40-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B50-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C12-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C16-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C20-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C25-□□□□-MN063S1E20FP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C28-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C30-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C35-□□□□-MN063S1E20FP2	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C40-□□□□-MN063S1E20FP3	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C10-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C12-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C16-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C20-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C25-□□□□-MN063S1E20FP4	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C30-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MN063S1E20FP5	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C50-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C70-□□□□-MN063S1E20FP6	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C30-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C40-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C50-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C70-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-D10-□□□□-MN063S1E20LP1	10310	20310	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□

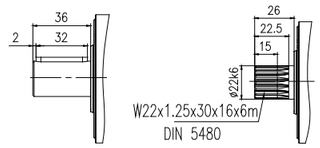
EtherCAT=EC	Without brake 18	(3m)B30	Without battery 10	B30(3m)	
PROFINET=PN	With brake 16	(5m)B50	With battery 11	B50(5m)	
		(7m)B70		B70(7m)	
		(10m)C10		C10(10m)	

MN063S outline dimension diagram

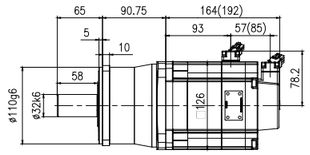


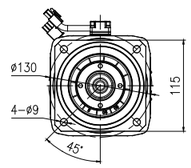


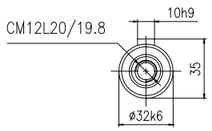


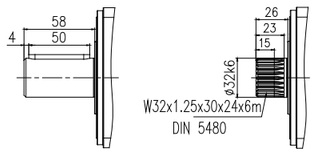


PN103B□-□□□-□□□□-MN063S1E20FP□

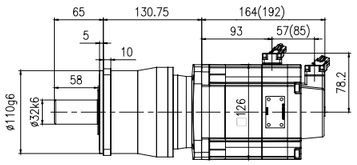


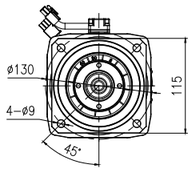


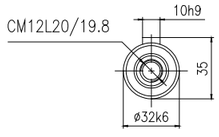


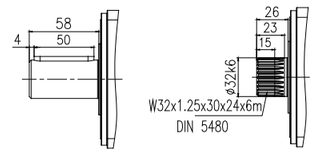


PN104B□-□□□-□□□□-MN063S1E20FP□

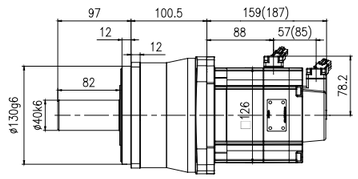


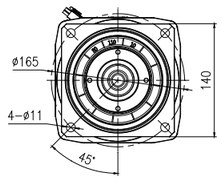


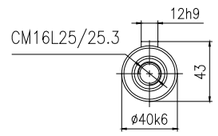


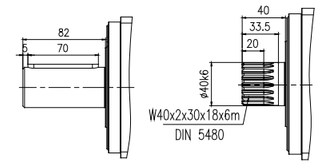


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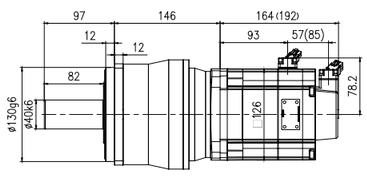


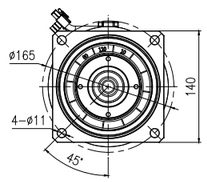


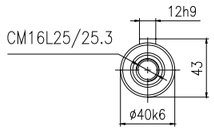


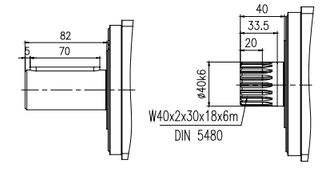


PN105B□-□□□-□□□□-MN063S1E20LP□

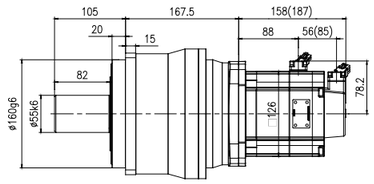


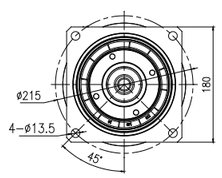


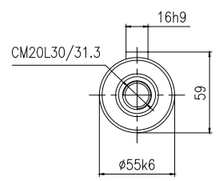


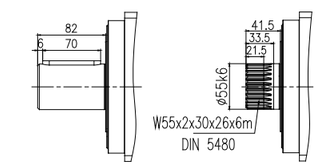


PN205B□-□□□-□□□□-MN063S1E20FP□









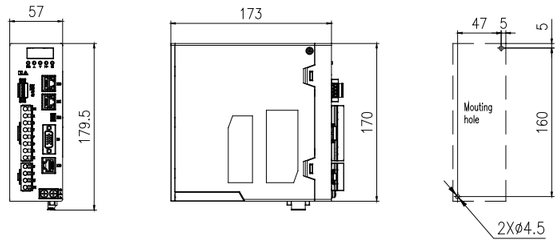
PN206B□-□□□-□□□□-MN063S1E20LP□

注：（）为带制动器尺寸

Note:（）is the size with brake

BONENG

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

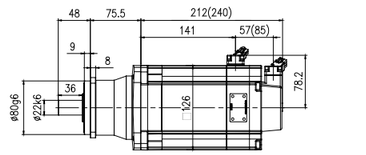
Servo motor：2.05kW 9.8N.m
4.6A 2000r/min

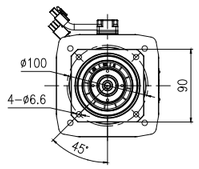
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

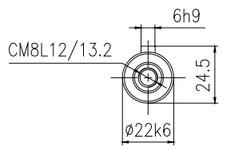
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN103B□-B30-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B40-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN103B□-B50-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B30-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B40-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B50-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-B70-□□□□-MN063M1E20FP3	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN104B□-C10-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C12-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C16-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C20-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN204B□-C25-□□□□-MN063M1E20FP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105B□-B70-□□□□-MN063M1E20LP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN105B□-C10-□□□□-MN063M1E20LP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C12-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C16-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C20-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C25-□□□□-MN063M1E20FP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C28-□□□□-MN063M1E20FP3	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C30-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C35-□□□□-MN063M1E20FP3	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C40-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN205B□-C50-□□□□-MN063M1E20FP4	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C28-□□□□-MN063M1E20LP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C30-□□□□-MN063M1E20LP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C35-□□□□-MN063M1E20LP1	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C40-□□□□-MN063M1E20LP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C50-□□□□-MN063M1E20LP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□
PN206B□-C70-□□□□-MN063M1E20LP2	10213	20213	AN-B3B15-S-□□	A2-H□□-A10-□□□	A2-H17-A□□-□□□

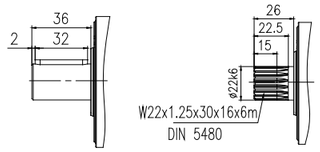
EtherCAT=EC　Without brake 18　(3m)B30　Without battery 10　B30(3m)
PROFINET=PN　With brake 16　(5m)B50　With battery 11　B50(5m)
(7m)B70　B70(7m)
(10m)C10　C10(10m)

MN063M outline dimension diagram

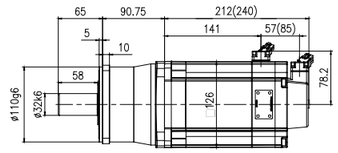


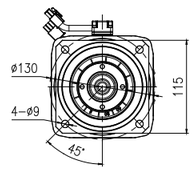


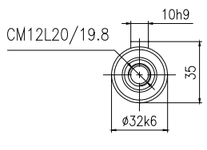


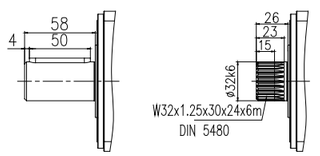


PN103B□-□□□-□□□□-MN063M1E20FP□

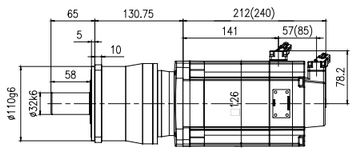


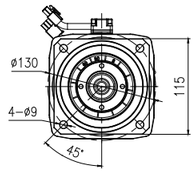


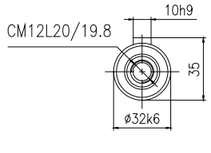


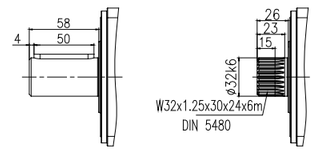


PN104B□-□□□-□□□□-MN063M1E20FP□

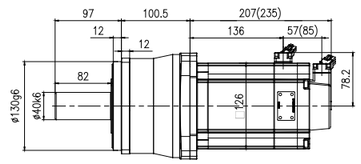


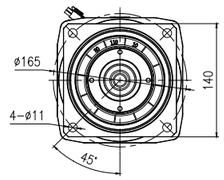


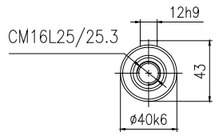


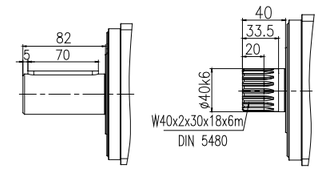


PN204B□-□□□-□□□□-MN063M1E20FP□

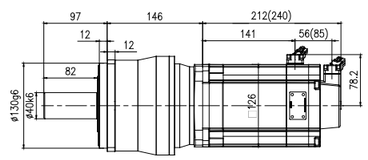


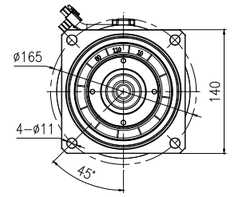


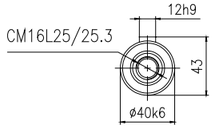


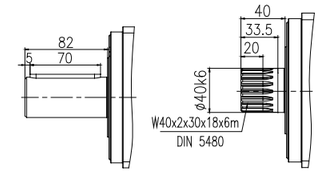


PN105B□-□□□-□□□□-MN063M1E20LP□

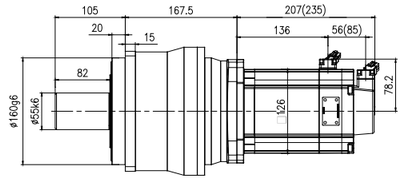


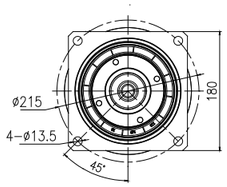


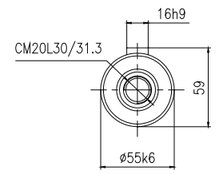


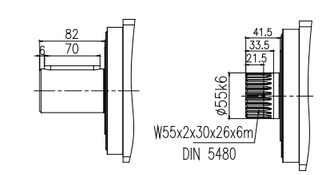


PN205B□-□□□-□□□□-MN063M1E20FP□









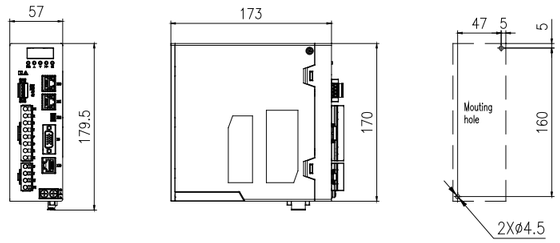
PN206B□-□□□-□□□□-MN063M1E20LP□

注：（）为带制动器尺寸

Note: () is the size with brake

BONENG

Outline dimension diagram of the equipped servo driver



AN-B3B15-S-EC

伺服马达：2.39kW 11.4N.m
5A 2000r/min

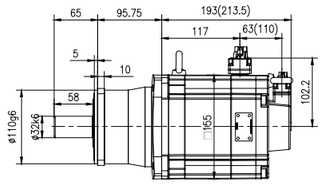
Servo motor：2.39kW 11.4N.m
5A 2000r/min

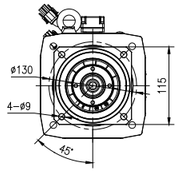
齿轮箱输出转速	齿轮箱输出扭矩	齿轮箱速比代号	齿轮箱公称速比	齿轮箱精确速比	齿轮箱额定扭矩	齿轮箱最大加速扭矩	齿轮箱最大扭矩	齿轮箱急停扭矩	齿轮箱转动惯量	齿轮箱最大回程间隙	齿轮箱扭转刚度	齿轮箱服务系数
Gearbox output speed	Gearbox output torque	Gearbox speed ratio code	Gearbox nominal speed ratio	Gearbox accurate speed ratio	Gearbox rated torque	Gearbox maximum acceleration torque	Gearbox maximum 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^2	Jt 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

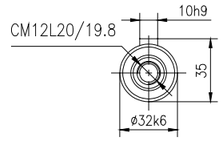
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN104B□-B30-□□□□-MN080S1E20FP1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

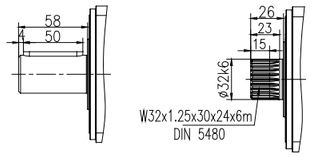
EtherCAT=EC　Without brake 18　(3m)B30　Without battery 10　B30(3m)
PROFINET=PN　With brake 16　(5m)B50　With battery 11　B50(5m)
(7m)B70　B70(7m)
(10m)C10　C10(10m)

MN080S outline dimension diagram

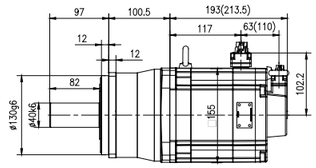


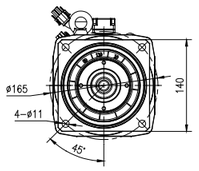


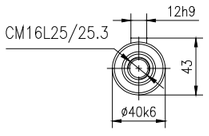


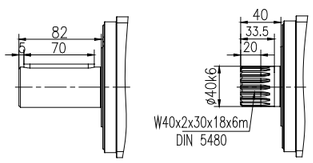


PN104B□-□□□-□□□□-MN080S1E20FP□

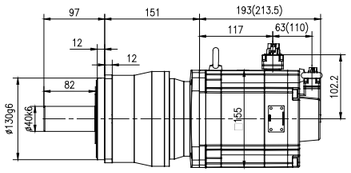


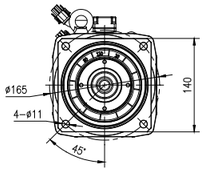


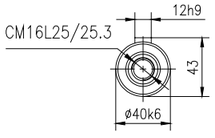


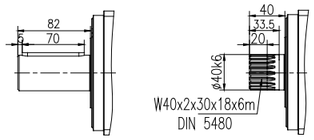


PN105B□-□□□-□□□□-MN080S1E20FP□

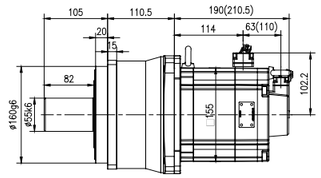


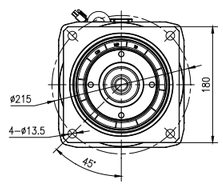


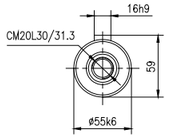


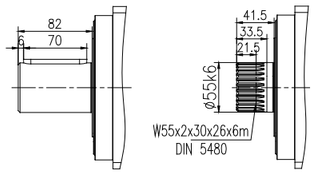


PN205B□-□□□-□□□□-MN080S1E20FP□

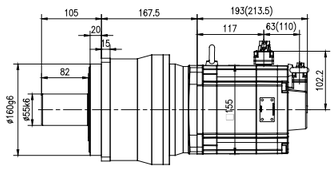


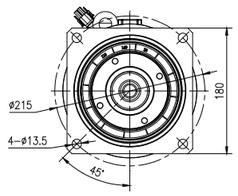


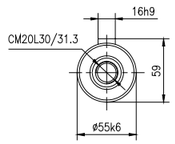


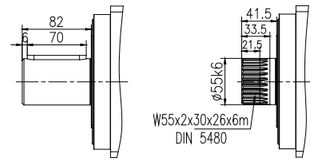


PN106B□-□□□-□□□□-MN080S1E20LP□

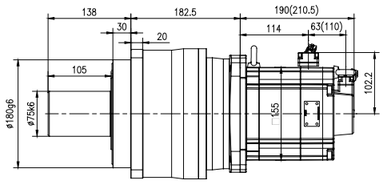


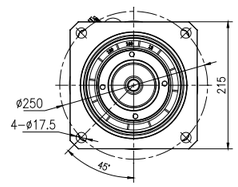


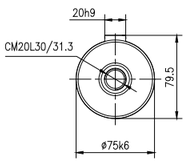


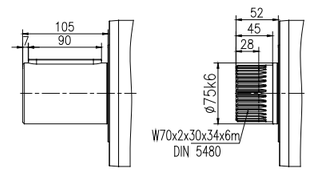


PN206B□-□□□-□□□□-MN080S1E20FP□







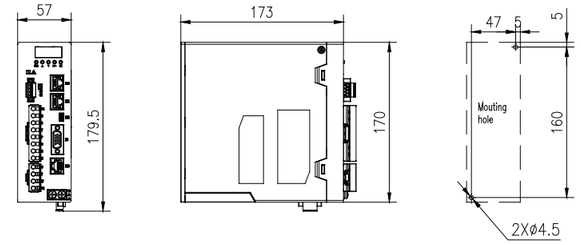


PN207B□-□□□-□□□□-MN080S1E20LP□

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：3.98kW 19N.m
8.1A 2000r/min

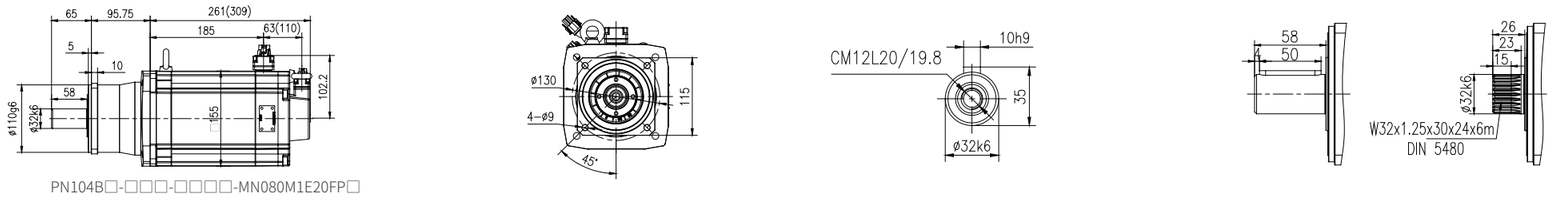
Servo motor：3.98kW 19N.m
8.1A 2000r/min

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^2	Jt 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

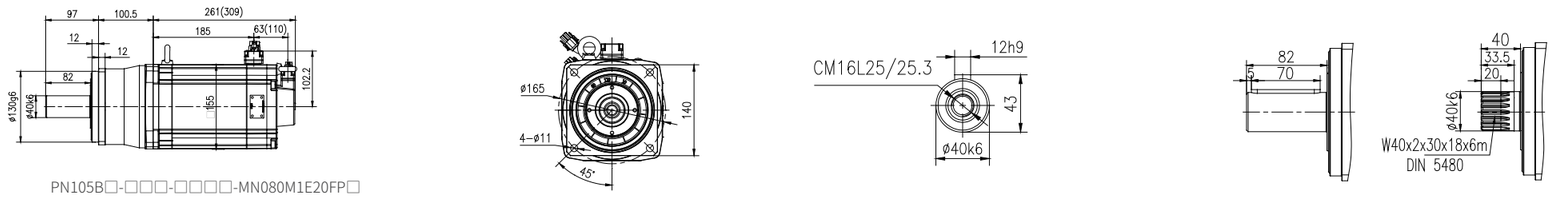
行星精密齿轮伺服马达订货号	伺服马达ID		伺服驱动器订货号	伺服马达线缆配置订货号	
	无制动器	带制动器		伺服马达动力线	伺服马达信号线
Order number of planetary precision gear servo motor	Servo motor ID		Servo driver order number	Servo motor cable configuration order number	
	Without brake	With brake		Servo motor power line	Servo motor signal line
PN104B□-B30-□□□□-MN080M1E20FP1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

EtherCAT=EC	Without brake 18	(3m)B30	Without battery 10	B30(3m)
PROFINET=PN	With brake 16	(5m)B50	With battery 11	B50(5m)
		(7m)B70		B70(7m)
		(10m)C10		C10(10m)

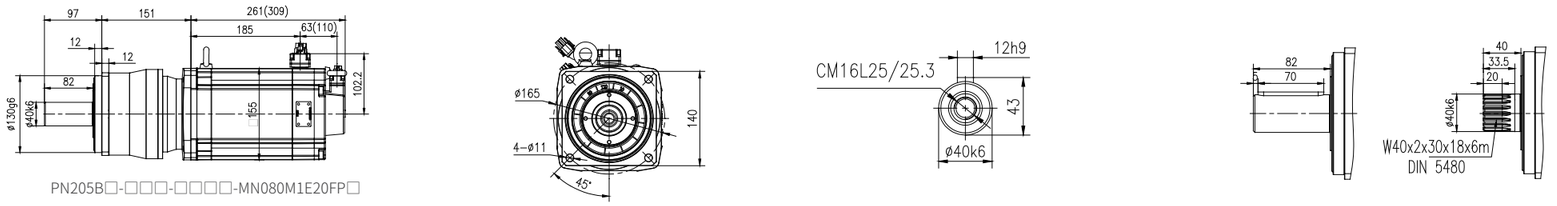
MN080M outline dimension diagram



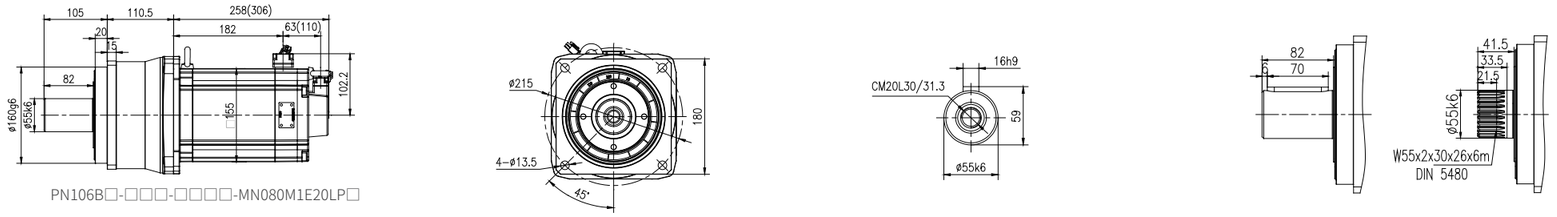
PN104B□-□□□-□□□□-MN080M1E20FP□



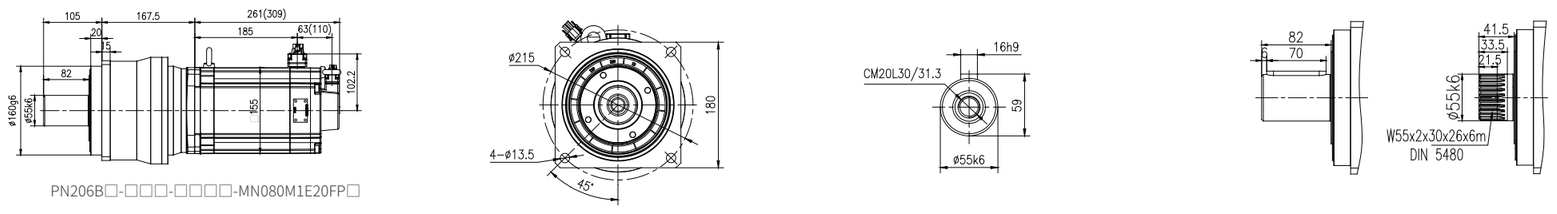
PN105B□-□□□-□□□□-MN080M1E20FP□



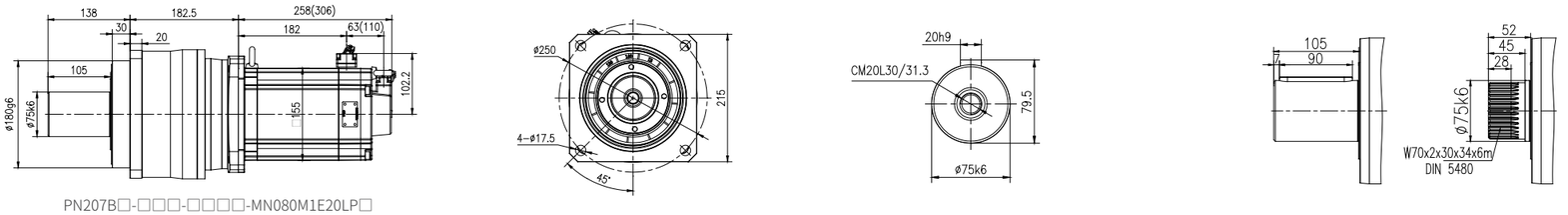
PN205B□-□□□-□□□□-MN080M1E20FP□



PN106B□-□□□-□□□□-MN080M1E20LP□



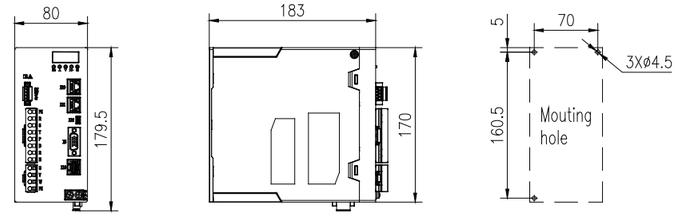
PN206B□-□□□-□□□□-MN080M1E20FP□



PN207B□-□□□-□□□□-MN080M1E20LP□

注：（）为带制动器尺寸

Outline dimension diagram of the equipped servo driver



AN-B3B30S-EC

Note: () is the size with brake

9 输出轴允许的轴向力和径向力

输出轴轴承配置1：深沟球轴承+深沟球轴承

9 Permissible axial and radial forces on the output shaft

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 PN202B	PN103B PN203B	PN104B PN204B	PN105B PN205B	PN106B PN206B	PN107B PN207B
20000h的径向力	Radial force for 20000h	$F_{r20000h}$	N	600	1300	2050	2500	3500	7350	9300
20000h的轴向力	Axial force for 20000h	$F_{a20000h}$		250	500	750	1050	1750	2600	3350
30000h的径向力	Radial force for 30000h	$F_{r30000h}$		500	1150	1750	2200	3050	6400	8100
30000h的轴向力	Axial force for 20000h	$F_{a30000h}$		200	400	650	900	1550	2250	2950
20000h的侧倾力矩	Tilting moment for 20000h	$M_{k20000h}$	Nm	30	93	173	266	464	1099	1638
30000h的侧倾力矩	Tilting moment for 30000h	$M_{k30000h}$		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 PN202B	PN103B PN203B	PN104B PN204B	PN105B PN205B	PN106B PN206B	PN107B PN207B
20000h的径向力	Radial force for 20000h	$F_{r20000h}$	N	/	2950	6200	7900	13100	25650	30450
20000h的轴向力	Axial force for 20000h	$F_{a20000h}$		/	2700	5050	6900	11650	18450	23350
30000h的径向力	Radial force for 30000h	$F_{r30000h}$		/	2600	5500	7000	11600	22700	26950
30000h的轴向力	Axial force for 20000h	$F_{a30000h}$		/	2400	4500	6100	10300	16350	20700
20000h的侧倾力矩	Tilting moment for 20000h	$M_{k20000h}$	Nm	/	272	703	1137	2376	5409	7531
30000h的侧倾力矩	Tilting moment for 30000h	$M_{k30000h}$		/	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

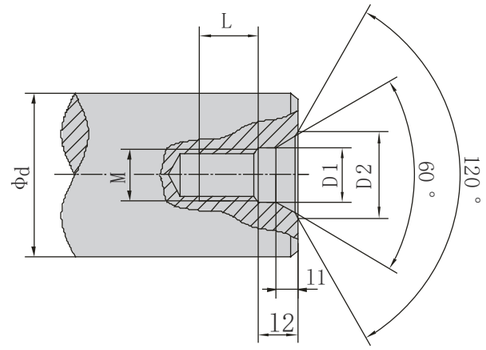
10 Weight table

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
机座号	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

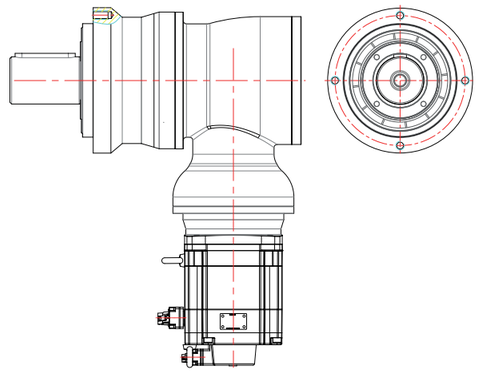


d	M	L	12	11	D1	D2
7 < d ≤ 10	M3	10	2.6	1.8	3.2	5.8
10 < d ≤ 13	M4	10	3.2	2.1	4.3	7.4
13 < d ≤ 16	M5	10	4	2.4	5.3	8.8
16 < d ≤ 21	M6	12	5	2.8	6.4	10.5
21 < d ≤ 24	M8	12	6	3.3	8.4	13.2
24 < d ≤ 30	M10	15	7.5	3.8	10.5	16.3
30 < d ≤ 38	M12	20	9.5	4.4	13	19.8
38 < d ≤ 50	M16	25	12	5.2	17	25.3
50 < d ≤ 85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

12 PNK直角精密行星齿轮伺服马达

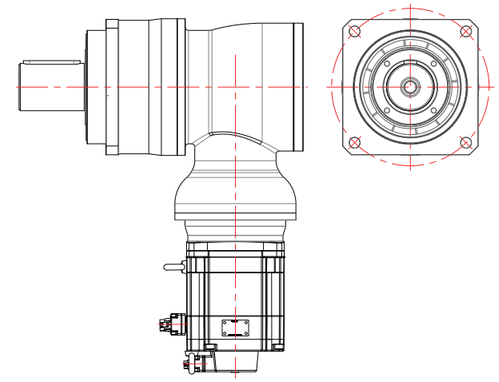
12 PNK right angle precision planetary gear motor

输出圆法兰(L) Round Output Flange(L)



机座号 Frame size	PNK302	PNK303	PNK304	PNK305
速比 Gear Ratio	9, 12, 16, 20, 25, 27, 28, 30, 36, 45, 48, 60, 63, 75, 84, 90, 105, 120, 147, 150, 210, 300			
额定输出扭矩 (N.m) Rated Output Torque (N•m)	42	110	265	515
详细参数，敬请垂询！			For detailed specifications, please contact us!	

输出方法兰(B) Square Output Flange(B)



机座号 Frame size	PNK302	PNK303	PNK304	PNK305	PNK306	PNK307
速比 Gear Ratio	9, 12, 16, 20, 25, 27, 28, 30, 36, 45, 48, 60, 63, 75, 84, 90, 105, 120, 147, 150, 210, 300					
额定输出扭矩 (N.m) Rated Output Torque (N•m)	42	110	265	515	1200	1900
详细参数，敬请垂询！				For detailed specifications, please contact us!		

12.1 PNK...L-MN 行星通用齿轮伺服马达 型号表示方法

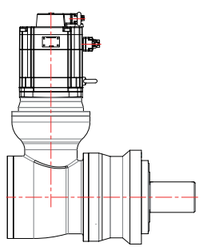
12.1 PNK...L-MN Planetary Current Servo Gearmotor Model representation method

PNK 3 02 L A - B90 - B1 S 1 5 -

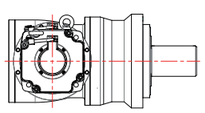
产品分类代号 PNK=通用型	**Product classification code** PNK=Current type
齿轮传动级数 3=3级	**Gear series** 3=3 stage
机座号 02/03/04/05	**Frame size** 02/03/04/05
产品系列代号 L=圆法兰	**Product series code** L=Round flange
输出轴形式代号 A=光滑实心轴 B=平键实心轴 C=外花键实心轴	**Output shaft form code** A=Smooth solid shaft B=Flat key solid shaft C=External spline solid shaft
公称速比代号	**Nominal speed ratio code**
安装方位 B1/B2/B3/B4/V1/V3	**Installation orientation** B1/B2/B3/B4/V1/V3
回程间隙 S=标准间隙	**Return clearance** S=Standard clearance
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）	**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.)
润滑油代号 5=合成润滑油	**Lubricating oil code** 5=Synthetic lubricating oil

PNK...L-MN安装方位

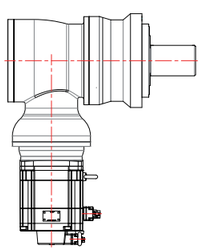
PNK...L-MN Installation orientation



B1-水平（输入轴向上） B1-level (Input axis up)



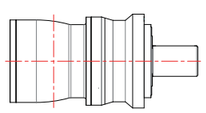
B2-水平（输入轴向右） B2-level (Input axis right)



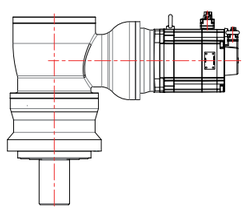
B3-水平（输入轴向下） B3-level (Input axis down)

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

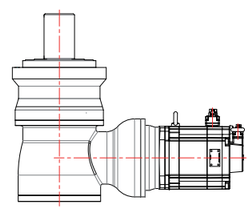
连接器位置	**Connector location**
产品分类代号 2=规格2	**Connector type** 2=specifications2
连接器方位	**Connector orientation**
防护等级 5=IP65	**Protection class** 5=IP65
热保护 0=无绕组保护	**Thermal protection** 0=Without thermal protection
制动器 N=无制动器 A=永磁制动器	**Brake** N=Without brake A=With brake
编码器 3=编码器	**Encoder** 3=Encoder
冷却方式 N=自然冷却	**Cooling method** N=Natural cooling
轴孔径代号 1、2、3...	**Axis aperture code** 1、2、3...
轴伸形式P	**Axis extension form P**
法兰形式F/L	**Flange formF/L**
额定转速代号 E20=2000r/min E30=3000r/min	**Rated speed code** E20=2000r/min E30=3000r/min
结构形式 1=紧凑型	**Structure type** 1=Compact
机座号	**Frame size**
三相交流同步伺服马达	**Three Phase AC Synchronous Servomotor**



B4-水平（输入轴向左） B4-level (Input axis left)



V1-竖直（输出轴向下） V1-Vertical (output axis down)



V3-竖直（输出轴向上） V3-Vertical (output axis up)

12.2 PNK…B-MN 行星通用齿轮伺服马达 型号表示方法

12.2 PNK…B-MN Planetary Current Servo Gearmotor Model representation method

PNK 3 02 B A - B90 - B1 S 1 5 -

产品分类代号
PNK=通用型
Product classification code
PNK=Current type

齿轮传动级数
3=3级
Gear series
3=3 stage

机座号
02/03/04/05/06/07
Frame size
02/03/04/05/06/07

产品系列代号
B=方法兰
Product series code
B=Square flange

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
Output shaft form code
A=Smooth solid shaft
B=Flat key solid shaft
C=External spline solid shaft

公称速比代号
Nominal speed ratio code

安装方位
B1/B2/B3/B4/V1/V3
Installation orientation
B1/B2/B3/B4/V1/V3

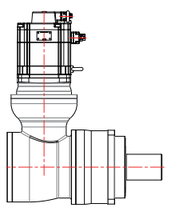
回程间隙
S=标准间隙
Return clearance
S=Standard clearance

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）
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..)

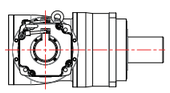
润滑油代号
5=合成润滑油
Lubricating oil code
5=Synthetic lubricating oil

PNK…B-MN安装方位

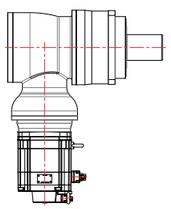
PNK…B-MN Installation orientation



B1-水平（输入轴向上） B1-level (Input axis up)



B2-水平（输入轴向右） B2-level (Input axis right)



B3-水平（输入轴向下） B3-level (Input axis down)

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

连接器位置 **Connector location**

产品分类代号 **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**

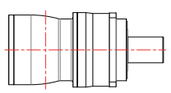
法兰形式F/L **Flange formF/L**

额定转速代号 **Rated speed code**
E20=2000r/min E20=2000r/min
E30=3000r/min E30=3000r/min

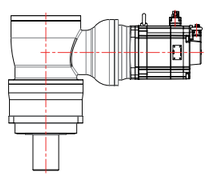
结构形式 **Structure type**
1=紧凑型 1=Compact

机座号 **Frame size**

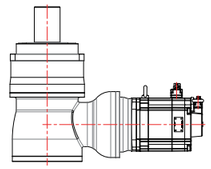
三相交流同步伺服马达 **Three Phase AC Synchronous Servomotor**



B4-水平（输入轴向左） B4-level (Input axis left)



V1-竖直（输出轴向下） V1-Vertical (output axis down)



V3-竖直（输出轴向上） V3-Vertical (output axis up)

MN通用型伺服马达

13 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

13 Servo motors overview

MN series servo motors matched with BonengANseriesservodriverscanformaprecise positioning servo system.
The commonly used cooling method for MN servo motors at the factory is natural cooling,whileothercoolingmethodssuch as forced air cooling and water-cooled servo motors can be specially customized and achievedHigh 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),Simultaneouslymeetingmost intermittent working modes (S2-S10)

13.1 马达技术特征

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2^{23}	Encoder resolution 2^{23}
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

13.2 马达运行环境

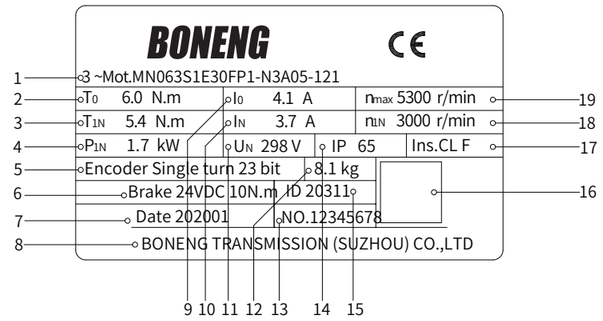
所允许的相对湿度：
-20℃≤T≤20℃:100% 20℃＜T≤30℃:95% 30℃＜T≤40℃:55%
对于更高的环境温度、以及(或者)高于海拔1000m的地点，马达的额定功率换算系数为Kht所允许的功率值：
Pn'=Pn·Kht

13.2 Motor operatingenvironment

Allowable relative humidity:
-20℃≤T≤20℃:100% 20℃＜T≤30℃:95% 30℃＜T≤40℃:55%
For higher ambient temperatures, and above 1000m altitude, the motor's rated power conversion factor is the power value allowed by Kht: Pn'= Pn·Kht

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℃	30～40℃	45℃	50℃	55℃	60℃
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

13.3 马达铭牌信息



13.3 Motor nameplateinformation

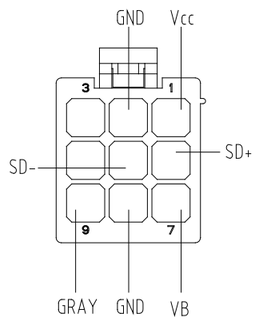
1.马达型号 1.Model of motor
2.静止转矩(100K) 2.Statictorque(100K)
3.额定转矩(100K) 3.Ratedtorque(100K)
4.额定功率 4.Rated power
5.编码器参数 5.Parameter of encoder
6.制动器参数 6.Parameter of brake
7.生产日期 7.Date in produced
8.公司名称 8.Company name
9.静止电流 9.Static current
10.额定电流 10.Rated current
11.额定转速下的感应线电压 11.Back EMF
12.重量 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

13.4 马达制动器参数

13.4 Motor brake parameters

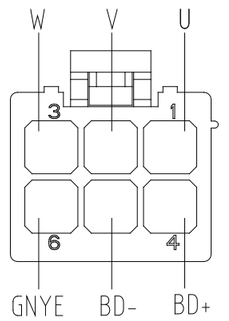
	制动器型号	Brake model	BN028	BN036	BN048	BN063	BN080
	静摩擦力矩(N.m)	Static friction torque(N.m)	≥1.9	≥2.4	≥3.8	≥10	≥22
	制动器功率(W)	Brake power(W)	8.76	6.74	13.4	14	19
	转动惯量(kg·cm^2)	Moment of inertia(kg·cm^2)	0.09	0.11	0.39	0.78	2.55
	额定间隙(mm)	Rated clearance(mm)	0.15	0.12	0.2	0.2	0.3
	工作电压(VDC)	Operating voltage(VDC)	24±10%	24±10%	24±10%	24±10%	24±10%
	工作温度(℃)	Operating temperature(℃)	-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 emergencybraking speed(r/min)	6000	6000	6000	3000	3000
	适配马达机座号	Compatible motorframe size	28	36	48	063/080S	080M

13.5 马达电气连接



马达信号端插头 motor signal end plug

13.5 Motor electrical connection



马达动力端插头 motor power end plug

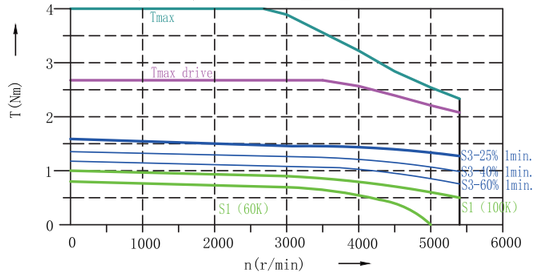
14 伺服马达参数及特性曲线 14 Servo motor parameters and characteristic curve

机座号028、036和048伺服马达参数、外形尺寸以及特性曲线 Frame size028、036and048 servo motor parameters, dimensions and characteristic curve

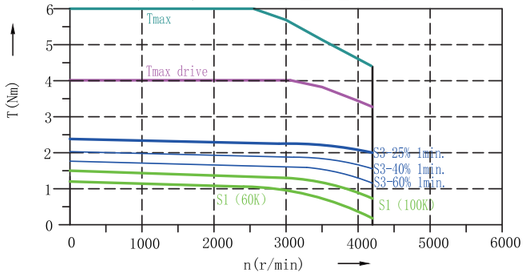
马达型号	Motor Model	MN028S1E30□P□-N3□05-121	MN028M1E30□P□-N3□05-121	MN036S1E30□P□-N3□05-121	MN036M1E30□P□-N3□05-121	MN048S1E30□P□-N3□05-121	MN048M1E30□P□-N3□05-121
额定转速n_{1N}(r/min)	Rated speed n_{1N}(r/min)	3000	3000	3000	3000	3000	3000
额定功率P_{1N}(kW)	Rated power P_{1N}(kW)	0.28	0.42	0.47	0.75	1	1.5
额定电流$I_{N(100K)}$(A)	Rated current $I_{N(100K)}$(A)	0.9	1	1.15	1.6	2.2	3
额定转矩$T_{1N(100K)}$(N.m)	Rated torque $T_{1N(100K)}$(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}kg.m^2)	Moment of inertia J(10^{-4} kg.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

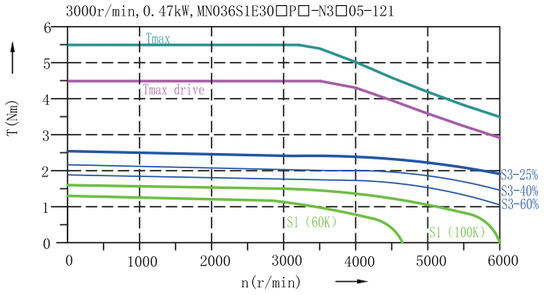
3000r/min,0.28kW,MN028S1E30□P□-N3□05-121



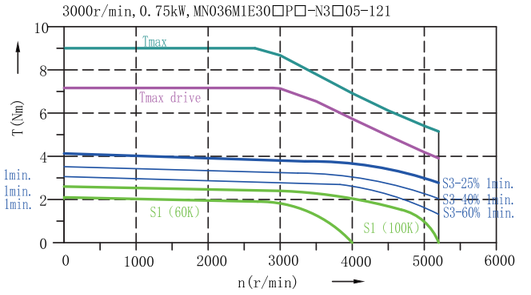
3000r/min,0.42kW,MN028M1E30□P□-N3□05-121



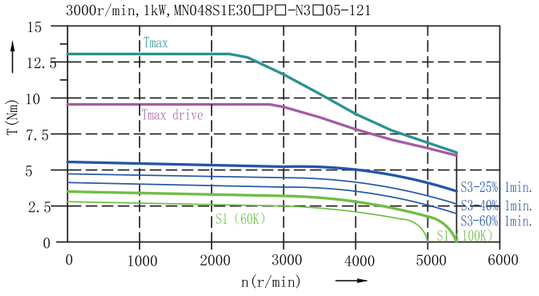
3000r/min,0.47kW,MN036S1E30□P□-N3□05-121



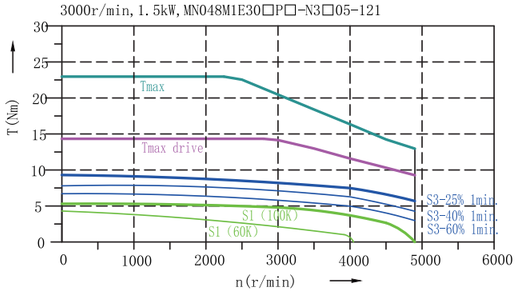
3000r/min,0.75kW,MN036M1E30□P□-N3□05-121



3000r/min,1kW,MN048S1E30□P□-N3□05-121



3000r/min,1.5kW,MN048M1E30□P□-N3□05-121

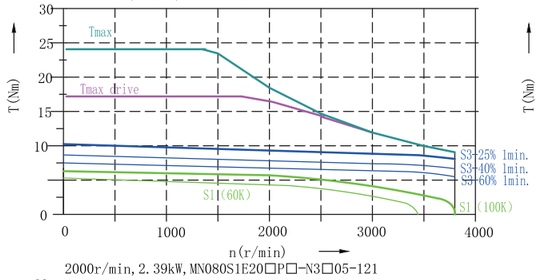


机座号063和080伺服马达参数、外形尺寸以及特性曲线 Frame size 063 and 080 servo motor parameters, dimensions and characteristic curve

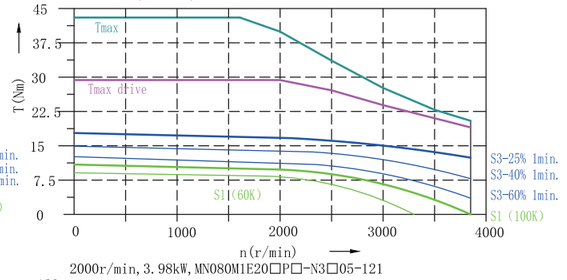
马达型号	Motor Model	MN063S1E20□P□-N3□05-121	MN063M1E20□P□-N3□05-121	MN080S1E20□P□-N3□05-121	MN080M1E20□P□-N3□05-121
额定转速n_{1N}(r/min)	Rated speed n_{1N}(r/min)	2000	2000	2000	2000
额定功率P_{1N}(kW)	Rated power P_{1N}(kW)	1.2	2.05	2.39	3.98
额定电流$I_{N(100K)}$(A)	Rated current $I_{N(100K)}$(A)	2.8	4.6	5	8.1
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：括号内为带制动器的数据 Note: The data in parentheses are with brake

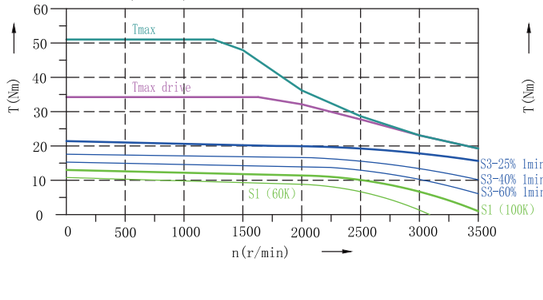
2000r/min,1.2kW,MN063S1E20□P□-N3□05-121



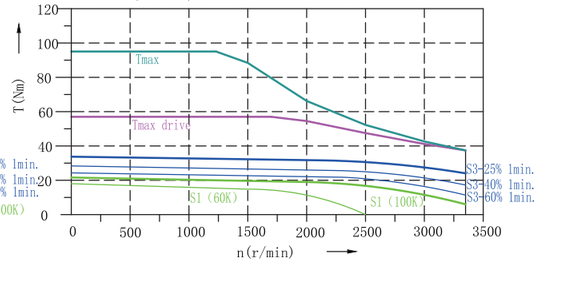
2000r/min,2.05kW,MN063M1E20□P□-N3□05-121



2000r/min,2.39kW,MN080S1E20□P□-N3□05-121



2000r/min,3.98kW,MN080M1E20□P□-N3□05-121



AN通用型伺服驱动器
15 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
15 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.

15.1 伺服驱动器型号表示方法　　15.1 Model indication method

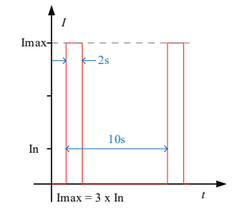
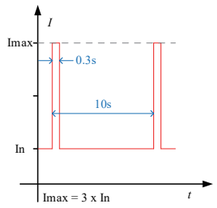
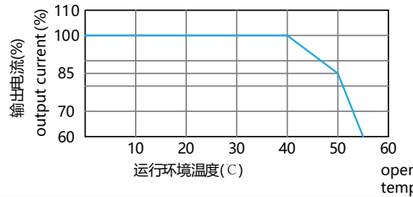
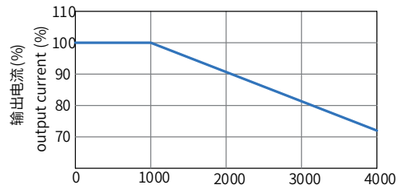
AN - B　3　B15 - S - EC

通用型伺服驱动器	General servo drive
电压等级 B = 400VAC	Voltage level B = 400VAC
输入相数 3=3相	Input phase 3=3 phase
功率代号 A75 = 0.75kW B15 = 1.5kW B30 = 3.0kW	Power A75 = 0.75kW B15 = 1.5kW B30 = 3.0kW
版本类型 S=标准型驱动器	Version S=Standard type drive
通讯类型 EC=EtherCAT通讯 PN=PROFINET通讯	Communication type EC=EtherCAT Communication PN=PROFINET Communication

15.2 伺服驱动器订货数据　　15.2 Model indication method

380…480V 3AC输入		380…480V 3AC input	
额定数据 Rated data			
额定功率(kW) Power(kW)	额定电流(A) Current (A)	外形尺寸 Dimensions	型号 Order number
0.75	1.9	N1	AN-B3A75-S-EC
0.75	1.9	N1	AN-B3A75-S-PN
1.5	5.3	N1	AN-B3B15-S-EC
1.5	5.3	N1	AN-B3B15-S-PN
3	10.53	N2	AN-B3B30-S-EC
3	10.53	N2	AN-B3B30-S-PN

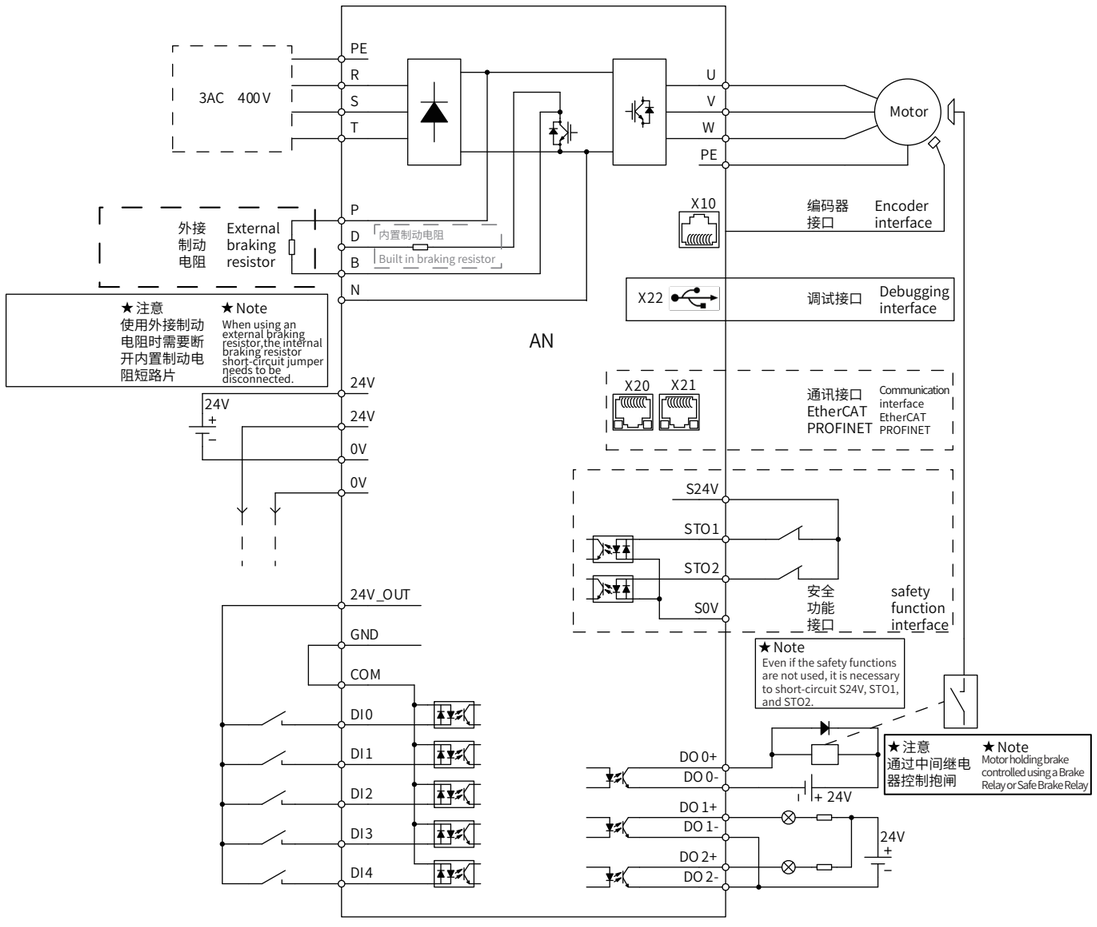
15.3 伺服驱动器通用技术数据　　15.3 G eneral data of AN general servo drive

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
环境条件	**Ambient condition**		
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(no direct sunlight), without corrosive gases, flammable gases,dust
环境温度 Relative humidity	运行 Operating	-20℃~+40℃:无功率降额，+40℃~+55℃:有功率降额	-20℃~+40℃:withoutcurrent derating, +40℃~+55℃:with current derating
			
	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	According to IEC 60068-2-6
		10Hz~58Hz:0.075mm偏转，58Hz~200Hz:1 g振动	10Hz~58Hz:0.075mm deflection, 58Hz~200Hz:1g vibration
冲击	impact	符合 IEC60068-2-27	According to IEC60068-2-27
		峰值加速度:5g/0ms及15g/11ms，冲击数量:每方向上3个轴6次冲击，冲击持续时间:1s	Peak acceleration:5g/0ms and 15g/11ms, 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
输入输出信号	**Input and output signals**		
数字量输入信号	Digital input signal	5路共公共端子COM的DI	DI of 5-way common terminal COM
		电气隔离，支持Source和Sink模式，最大电压:DC30V	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 indication, 5-digit LED display
调试	Debugging	通过USB调试参数	Debugging parameters through USB

15.4 伺服驱动器特定技术数据　15.4 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	10.53
瞬时最大输出电流 (A)	Instantaneous maximum output current(A)	5.7	15.9	31.59
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

15.5 伺服驱动器端子配线图　15.5 Servo drive terminal connection



15.6 接口端子信号定义　15.6 Interface signal definitions

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0.5~1.5mm²。

Control power terminal: Using detachable terminals with fixed screws, pin spacing 3.5mm, wire diameter range 0.5~1.5mm².

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0.2~2.5mm²。

Main power input terminal: Utilizes detachable terminals with fixed latch, pin spacing of 7.62mm, wire diameter range of 0.2~2.5mm².

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	连接 三相电源 Three-phase power supply
	3	S	
	4	T	
	5	P	直流 母线正 Positive terminal of DC busbar
	6	D	使用内置制动电阻时，短接P和D When use the built-in braking resistor, short terminals P and D
	7	B	连接外置制动电阻时，先取掉接于P和D的短接片，再将制动电阻接于P和R Remove the jumper bar between terminals P and D before connecting an external braking resistor between terminals P and 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0.2~2.5mm²。

Motor terminals: Utilizes detachable terminals with fixed latch, pin spacing of 7.62mm, wire diameter range of 0.2~2.5mm².

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0.5~1.5mm²。

Safety function terminals: Utilizes detachable terminals with fixed screws, pin spacing of 3.5mm, wire diameter range of 0.5~1.5mm².

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	DI0	数字量输入 Digital input
	9	DI1	
	8	DI2	
	7	DI3	
	11	DI4	
	13	COM	
	14	24V_OUT	输出24V电源 24V output power supply
	15	GND	
	1	DO0+	数字量输出 Digital output
	6	DO0 -	
	3	DO1+	
	2	DO1 -	
	5	DO2+	
	4	DO2 -	

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+	电机温度侦测 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

16 整机外形及安装尺寸图

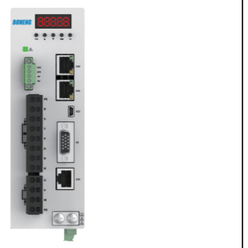
16 Overall appearance and installation dimension diagram

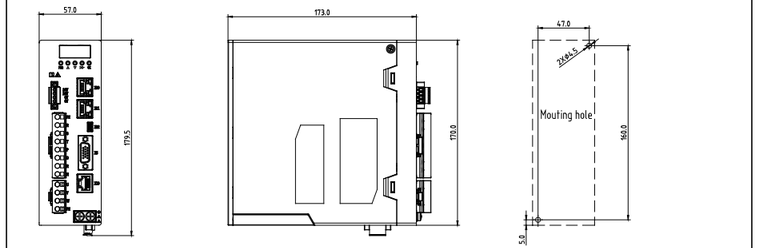
整机外形图及安装尺寸图，N1-N2功率范围，单位：mm

N1(0.75kW-1.5kW)

Overall appearance diagram and installation dimension diagram, N1~N2 power range, unit: mm

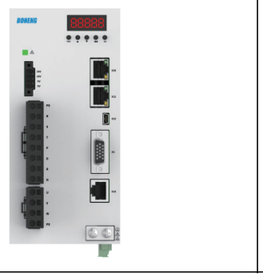
N1(0.75kW-1.5kW)

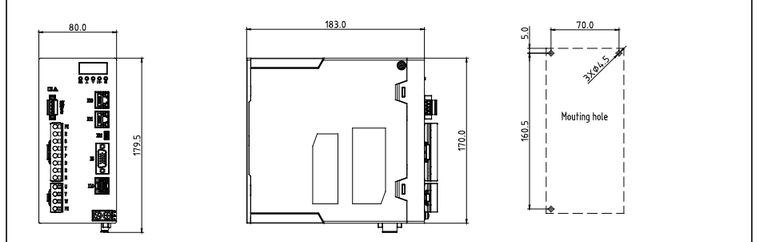




N2(3.0kW)

N2(3.0kW)





17 可选件

17.1 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 (A)	电感 Inductance (mH)	订货号 Ordering Data
N1	AN-B3A75-S-□□	2.3	2.8	A1-H12-TB280
	AN-B3B15-S-□□	6.3	2	A1-H12-TB200
N2	AN-B3B30-S-□□	14.7	0.93	A1-H12-TA930

17.2 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 (A)	订货号 Ordering Data
N1	AN-B3A75-S-□□	10	A1-H11-A-C10
	AN-B3B15-S-□□	10	A1-H11-A-C10
N2	AN-B3B30-S-□□	20	A1-H11-A-C20

17 Optional parts

17.1 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:

17.2 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:

17.3 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，动能转换成的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：

17.3 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	
						功率(kW)	阻值(Ω)	订货号	等效制动电阻
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	
						Power (KW)	Resistance value(Ω)	Ordering Data	Equivalent breaking resistance
N1	AN-B3A75-S-□□	100Ω	0.08	100	80W 100Ω	0.3	240	A1-H02-A40-K-D24	400W 240Ω
	AN-B3B15-S-□□	100Ω	0.08	100	80W 100Ω	0.6	130	A1-H02-A80-K-D13	800W 130Ω
N2	AN-B3B30-S-□□	50Ω	0.08	50	80W 50Ω	1.2	75	A1-H02-B12-K-C75	1200W 75Ω

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;

控制层 CONTROL

驱动层 DRIVE

马达层 MOTOR

齿轮层 GEAR



X7030 X7050
系列控制器
EtherCAT&Modbus



X3050 运动控制器
Motion Controller
EtherCAT&Modbus
24VDC

C/F/K/S-M
*· · ·D
马达分布式
变频驱动器
Integrated
Gearmotor
Drive











EtherCAT&
Modbus
380~480VAC
0.25~3kW
i=4~355

AM 变频驱动器
Variable Frequency Drive



Modbus
380~480VAC
0.75~5.5kW

A1 变频驱动器
Variable Frequency Drive



Modbus/CANopen
/PROFINET
380~480VAC
0.75~250kW

C/F/K/S/R
齿轮马达
Gearmotor











380~480VAC
0.09~200kW
i=1.25~500

MP/MU
三相交流异步马达
AsynchronousMotor

380~480VAC
0.09~90kW
960/1450r/min
1160/1750r/min

HB/BE/HK
齿轮箱
Gearbox



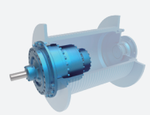
4.2~15775kW
i=5.6~450

P/PK
行星齿轮箱
Planetary
Gearbox



0.4~14000kW
i=25~4000

PW
卷扬齿轮箱
Planetary
Winch
Gearbox



1~1810kW
i=13~940

PS
回转齿轮箱
Planetary
Slewing
Gearbox



1~1626kW
i=14~947

J/JB
升降机
Jack



0.35~22.63kW
i=5~34

T
转向箱
Spiral Bevel
Gearbox



0.08~303kW
i=1:1~3:1

MX&AX
伺服马达&伺
服驱动器
Permanent
Magnet
Servo Motor
&Servo Drive

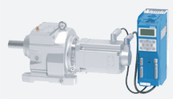


EtherCAT/
PROFINET
380~480VAC
0.28~14kW
1500/2000r/min
3000/4500r/min

C/F/K-MX
&AX齿轮伺
服马达&伺
服驱动器
Servo
Gearmotor
&Servo Drive







EtherCAT/
PROFINET
380~480VAC
0.28~14kW
i=1.25~315

PX-MX&AX
行星伺服马达
&伺服驱动器
Planetary
Precision Gear
Servo Motor
&Servo Drive





EtherCAT/
PROFINET
380~480VAC
0.38~14kW
i=3~100

PN-MN&AN
行星伺服马达
&伺服驱动器
Planetary
Precision Gear
Servo Motor
&Servo Drive







EtherCAT
PROFINET
380~480VAC
0.28~5.03kW
i=3~100

ME&AN
永磁同步伺服马
达&伺服驱动器
Permanent
Magnet
Servo Motor
&Servo Drive



EtherCAT/
PROFINET
200~240VAC
0.1kW~1.2kW

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辽宁省沈阳市沈北新区
太平洋工业城A区A73-6号
电话：024-31271571

BONENG TRANSMISSION(SHENYANG)CO.,LTD.

No. A73-6, Area A, Pacific Industrial City,
Shenbei New District, Shenyang, Liaoning
Province, China
TEL: 024-31271571

博能传动（天津）有限公司

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BONENG TRANSMISSION(TIANJIN)CO.,LTD.

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博能传动（开封）有限公司

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普瑞大道1288号
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向荣中心A座7楼5号
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Plot No. E-10/3, MIDC sinnar
(Malegaon) Industrial Area, Nashik,
422123, Maharashtra, India.
TEL:+91-11- 4507 6293（DELHI）
TEL:+91-22-2781 3385（MUMBAI）

BONENG TRANSMISSION(INDIA)PVT.LTD

Plot No. E-10/3, MIDC sinnar
(Malegaon) Industrial Area, Nashik,
422123, Maharashtra, India.
TEL:+91-11- 4507 6293（DELHI）
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