



GREENSKY MECHANICAL



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杭州绿天新能源科技有限公司
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DC GEAR MOTOR 直流减速电机



杭州绿天新能源科技有限公司
Greensky Power Company Limited



绿天机械 绿天新能源的一个电机品牌

GREENSKY MECHANICAL
A MICRO MOTOR BRAND OF GREENSKY POWER

绿天机械是杭州绿天新能源科技有限公司下属电机品牌，涵盖微型交流与直流电机、减速机、控制器和其它相关产品，同时能根据行业和客户需求设计开发定制类产品。品牌定位高端的电机品质，公司旗下有控股的电机工厂并与多个电机工厂有品牌代工合作，品牌拥有多名10年以上电机行业工作经验的技术员以及德语、日语、英语多语种销售团队，公司通过强大的技术团队和采购质检系统，提供高品质低成本的机械产品，专业快捷地服务到世界各地，实现共赢。

- 15年电机生产和销售经验

15 YEARS EXPERIENCE IN MICRO MOTOR PRODUCTION & SALES

- “一次即永久”的质量原则

“ONCE AND FOREVER” QUALITY PRINCIPAL

- 中德领先品牌

A SINO-GERMAN MOTOR BRAND

Greensky Mechanical is a motor brand of Greensky Power, which is producing brushless DC motor, micro AC & DC gear motor, small AC gear motor, precision planetary gearbox for servo motor. We also have capability to design and develop the micro motor, customized motor and precision gearbox, motor controller with high quality. The brand Greensky Mechanical was founded in 2012 with purchasing of a 15 year old cooperative factory in Zhejiang Province. Greensky Power brought new quality management concept to the new joint company to increase the quality of the motors. The positioning of the brand is high level motor based in China. “Once and Forever” is our goal to serve clients in the world. Once we do business with customers, we will do business forever.



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领先的同行的先进科技，保证了绿天机械每一件产品都不同寻常、品质非凡。科技是绿天机械产品卓越性能的核心，是精湛设计的保障，只有经历过时间验证的科技才能够进入生活的创新领域。绿天机械，以品质构建你的未来。绿天机械产品的卓越性能因人们的需求而产生，闪烁着创新的光芒。从第一只电机的诞生，无不以人们对生活的期待为依据。绿天机械力求以卓越性能为人们的未来负责，完美的细节，智能的科技，我们力求把所有的知识和理解融入到工作中。

Leading technology of Greensky Mechanical ensures the stability ,efficiency and high quality of every motor produced. With the ambition to create the high-quality brand of mechanical products from China, Greensky cultivates the best QC system from the pre-production to after-production process. We want to make sure every motor from Greensky is same good . "Once and forever" is our goal to serve clients all over the world. Once we do business with our clients,we will do business forever.



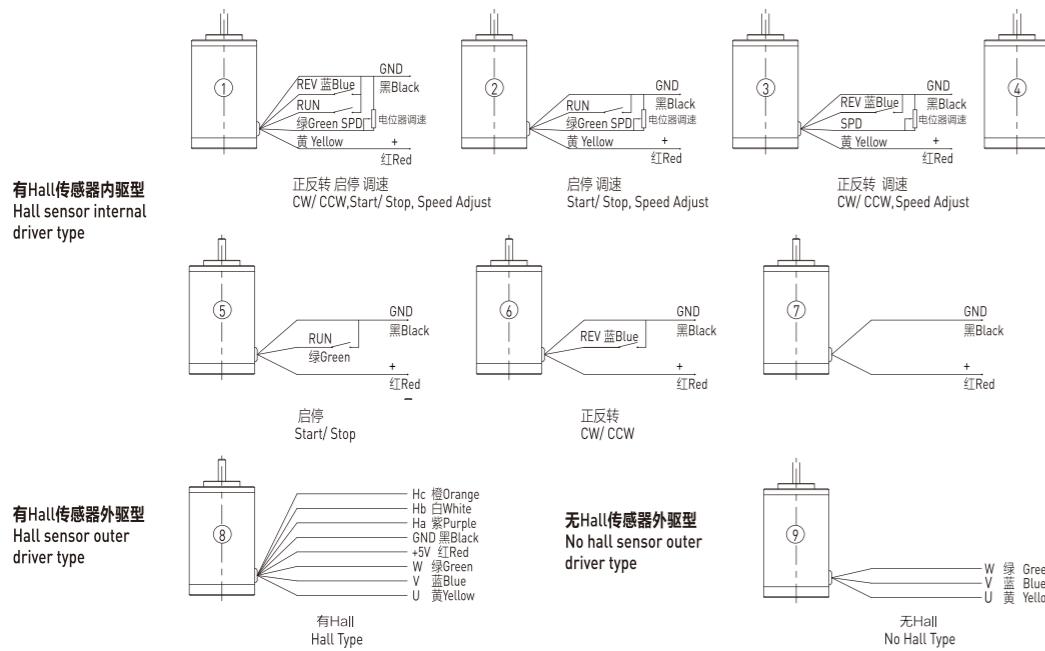
■ 电机型号说明 MOTOR MODEL EXPLANATION

GS BLD 60 S 25 D12 / 60 G 40K

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① 绿天 Greensky
② 直流无刷电机 Brushless DC Motor
③ 电机尺寸 Motor Dimension 60: 60mm 80: 80mm 90: 90mm 29: 29mm
④ 电机类型 Motor Type S: Square Type R: Round Type
⑤ 功率 Power 25: 25W 60: 60W 80: 80W
⑥ 电压 Voltage (D=DC) 12: 12V 24: 24V 310: 310V
⑦ 齿轮箱尺寸 Gearbox Dimension 60: 60mm 80: 80mm 90: 90mm 28: 28mm
⑧ 齿轮箱类型 Gearbox Type G: 齿轮箱Square Gearbox P: 行星齿轮箱Planetary Gearbox
⑨ 减速比 Gear Ratio 40K: 40:1

■ 常用接线图示 THE STANDARD WIRES CONTACT DRAWINGS



■ 订购说明 BLDC GEAR MOTOR SQUARE TYPE

GREENSKY 方形无刷直流电机

GREENSKY SQUARE BLDC MOTOR TYPE

该产品是标准的无刷直流电机，可以全面替代交流减速电机和直流减速电机，是小众客户适合零配的产品，该产品使用方便，结构紧凑。
This product is a standard BLDC motor, which can replace AC gear motor & DC gear motor perfectly. It is easy to use and have compact structure.

安装方式分为通孔和不通孔，输出端轴可定制。

There are 2 ways to install the motors: through hole and not through thread hole. The output shaft can be customized.

防护等级为IP40。

Protection class is IP 40.

产品的使用均在样本册规定范围内，客户在使用前请详细阅读使用说明，GREENSKY 为产品保修一年。

Customer needs to use the product according to the manual / instruction of catalog, please read the note carefully before you use. GREENSKY provides one year warranty.

此产品通过CE认证。

We have CE certification for product.

■ 订购说明 MOTOR CONTROLLER TYPE

GREENSKY 控制器

GREENSKY CONTROLLER

该产品是常规通用控制器，是小众客户适合零配的产品，使用方便，结构合理紧凑，均为外置系列。

This product is a standard commonly used controller which is easy to use and have compact structure.

安装方式有卧式安装和直立安装。

There're 2 ways of installation: horizontal and vertical.

防护等级是IP20。

Protection class is IP 20.

产品的使用均在样本册规定范围内，客户在使用前请详细阅读使用说明，GREENSKY 为产品保修一年。

Customer needs to use the product according to the manual / instruction of catalog, please read the note carefully before you use. GREENSKY provides one year warranty.



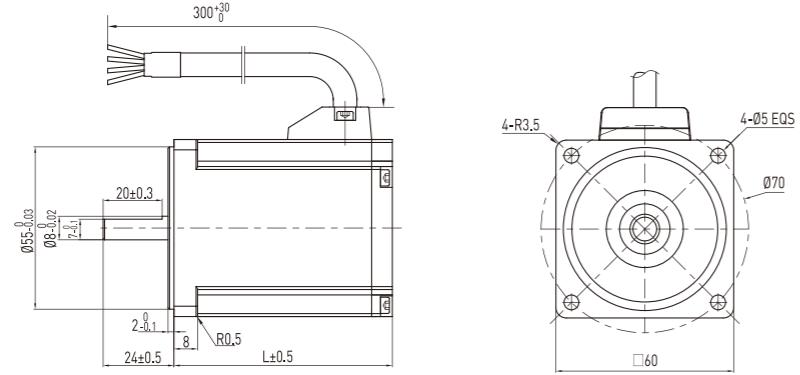


BLDC SERIES 6060

■60电机参数 60 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD60S15D12	12V	15W	0.072N.M	2800RPM	< 0.8A	2000RPM	1.56A	Both	> 5000	59mm	YES	800g
GSBLD60S15D24	24V	15W	0.072N.M	2800RPM	< 0.5A	2000RPM	0.78A	Both	> 5000	59mm	YES	800g
GSBLD60S15D310	310V	15W	0.072N.M	2700RPM	< 0.3A	2000RPM	0.06A	Both	> 5000	59mm	YES	800g
GSBLD60S30D12	12V	30W	0.143N.M	2800RPM	< 0.9A	2000RPM	3.13A	Both	> 5000	64mm	YES	900g
GSBLD60S30D24	24V	30W	0.143N.M	2800RPM	< 0.5A	2000RPM	1.56A	Both	> 5000	64mm	YES	900g
GSBLD60S30D310	310V	30W	0.143N.M	2700RPM	< 0.3A	2000RPM	0.12A	Both	> 5000	64mm	YES	900g
GSBLD60S60D24	24V	60W	0.287N.M	2800RPM	< 0.5A	2000RPM	3.13A	Both	> 5000	74mm	YES	1200g
GSBLD60S60D310	310V	60W	0.287N.M	2700RPM	< 0.3A	2000RPM	0.24A	Both	> 5000	74mm	YES	1200g

■尺寸图 DIMENSIONAL DRAWING

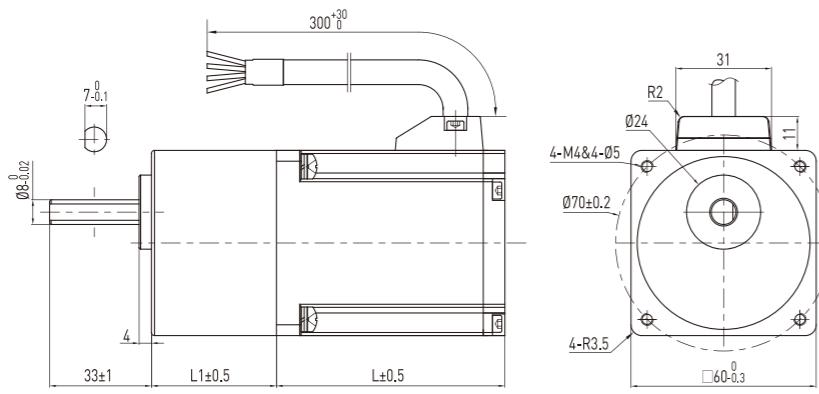


■60齿轮箱 60 GEAR BOX

容许力矩单位 Allowance Torque Unit: N.m

减速比 Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
输出轴转速 r/min Output speed	667	556	400	333	267	222	160	133	111	80	67	56	40	33	27	22	20	17	13	11	10
允许力矩 N.m Allowance Torque	0.19	0.23	0.32	0.39	0.48	0.58	0.81	0.97	1.16	1.45	1.74	2.09	2.63	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

■尺寸图 DIMENSIONAL DRAWING

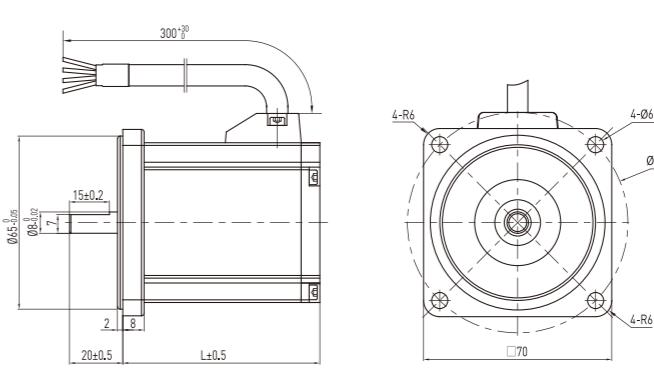


BLDC SERIES 7060

■60电机参数 60 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD60S15D12	12V	15W	0.072N.M	2800RPM	< 0.8A	2000RPM	1.56A	Both	> 5000	59mm	YES	800g
GSBLD60S15D24	24V	15W	0.072N.M	2800RPM	< 0.5A	2000RPM	0.78A	Both	> 5000	59mm	YES	800g
GSBLD60S15D310	310V	15W	0.072N.M	2700RPM	< 0.3A	2000RPM	0.06A	Both	> 5000	59mm	YES	800g
GSBLD60S30D12	12V	30W	0.143N.M	2800RPM	< 0.9A	2000RPM	3.13A	Both	> 5000	64mm	YES	900g
GSBLD60S30D24	24V	30W	0.143N.M	2800RPM	< 0.5A	2000RPM	1.56A	Both	> 5000	64mm	YES	900g
GSBLD60S30D310	310V	30W	0.143N.M	2700RPM	< 0.3A	2000RPM	0.12A	Both	> 5000	64mm	YES	900g
GSBLD60S60D24	24V	60W	0.287N.M	2800RPM	< 0.5A	2000RPM	3.13A	Both	> 5000	74mm	YES	1200g
GSBLD60S60D310	310V	60W	0.287N.M	2700RPM	< 0.3A	2000RPM	0.24A	Both	> 5000	74mm	YES	1200g

■尺寸图 DIMENSIONAL DRAWING

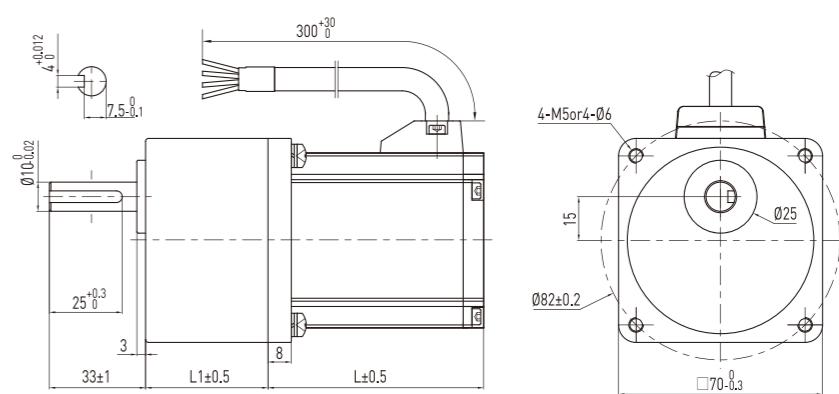


■70齿轮箱 70 GEAR BOX

容许力矩单位 Allowance Torque Unit: N.m

减速比 Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
输出轴转速 r/min Output Speed	667	556	400	333	267	222	320	160	133	111	100	80	67	56	50	40	33	27	22	20	17	13	11	10
允许力矩 N.m Allowable Torque	0.21	0.25	0.34	0.41	0.52	0.62	0.69	0.86	1.03	1.24	1.24	1.56	1.87	2.24	2.49	3.11	3.38	4.22	4.90	4.90	4.90	4.90	4.90	4.90

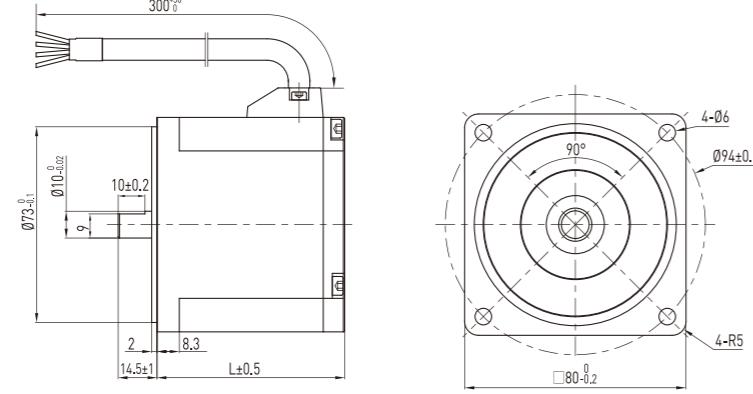
■尺寸图 DIMENSIONAL DRAWING



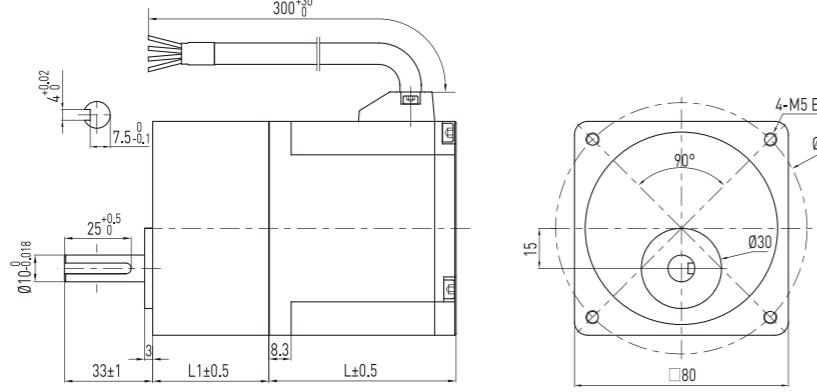
**BLDC SERIES
8080**

■80电机参数 80 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD80S80D24	24V	80W	0.382N.M	2700RPM	< 0.8A	2000RPM	0.17A	Both	> 5000	70mm	NO	1600g
GSBLD80S80D310	310V	80W	0.382N.M	2600RPM	< 0.4A	2000RPM	0.32A	Both	> 5000	70mm	NO	1600g
GSBLD80S120D24	24V	120W	0.573N.M	2700RPM	< 0.8A	2000RPM	6.25A	Both	> 5000	75mm	NO	1700g
GSBLD80S120D310	310V	120W	0.573N.M	2600RPM	< 0.4A	2000RPM	0.48A	Both	> 5000	75mm	NO	1700g
GSBLD80S180D24	24V	180W	0.86N.M	2700RPM	< 0.8A	2000RPM	9.38A	Both	> 5000	80mm	NO	1800g
GSBLD80S180D310	310V	180W	0.86N.M	2600RPM	< 0.4A	2000RPM	0.73A	Both	> 5000	80mm	NO	1800g

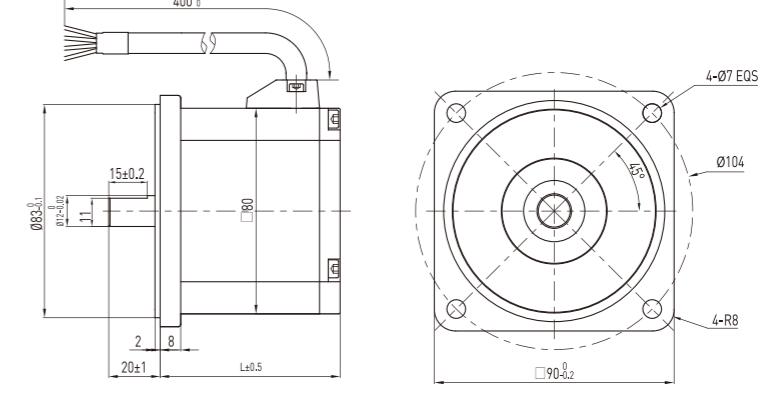
■尺寸图 DIMENSIONAL DRAWING

■80齿轮箱 80 GEAR BOX

减速比 Reduction Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
	输出轴转速 r/min Output speed	667	556	400	333	267	222	160	133	111	80	67	56	40	33	27	22	20	17	13	11
允许力矩 N.m Allowance Torque	0.31	0.37	0.52	0.62	0.77	0.93	1.29	1.55	1.86	2.32	2.79	3.35	4.2	5.04	6.3	7.56	8.0	8.0	8.0	8.0	8.0

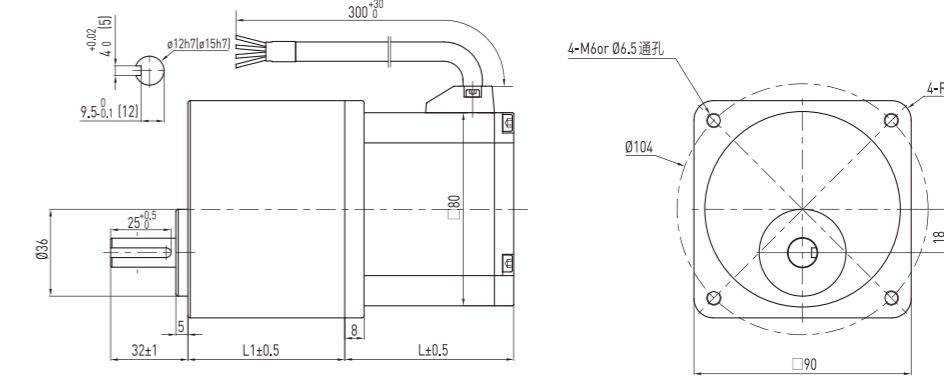
■尺寸图 DIMENSIONAL DRAWING

**BLDC SERIES
9080**

■80电机参数 80 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD80S80D24	24V	80W	0.382N.M	2700RPM	< 0.8A	2000RPM	0.17A	Both	> 5000	70mm	NO	1600g
GSBLD80S80D310	310V	80W	0.382N.M	2600RPM	< 0.4A	2000RPM	0.32A	Both	> 5000	70mm	NO	1600g
GSBLD80S120D24	24V	120W	0.573N.M	2700RPM	< 0.8A	2000RPM	6.25A	Both	> 5000	75mm	NO	1700g
GSBLD80S120D310	310V	120W	0.573N.M	2600RPM	< 0.4A	2000RPM	0.48A	Both	> 5000	75mm	NO	1700g
GSBLD80S180D24	24V	180W	0.86N.M	2700RPM	< 0.8A	2000RPM	9.38A	Both	> 5000	80mm	NO	1800g
GSBLD80S180D310	310V	180W	0.86N.M	2600RPM	< 0.4A	2000RPM	0.73A	Both	> 5000	80mm	NO	1800g

■尺寸图 DIMENSIONAL DRAWING

■90齿轮箱 90 GEAR BOX

减速比 Reduction Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200	
输出轴转速 r/min Output Speed	r/min	667	556	400	333	267	222	160	133	111	80	67	56	40	33	27	22	20	17	13	11	10
允许力矩 N.m Allowance Torque	N.m	0.7	0.84	1.16	1.39	1.74	2.09	2.61	3.14	3.76	4.73	5.67	6.81	9.45	11.35	14.18	15.21	16.9	20	20	20	20

■尺寸图 DIMENSIONAL DRAWING


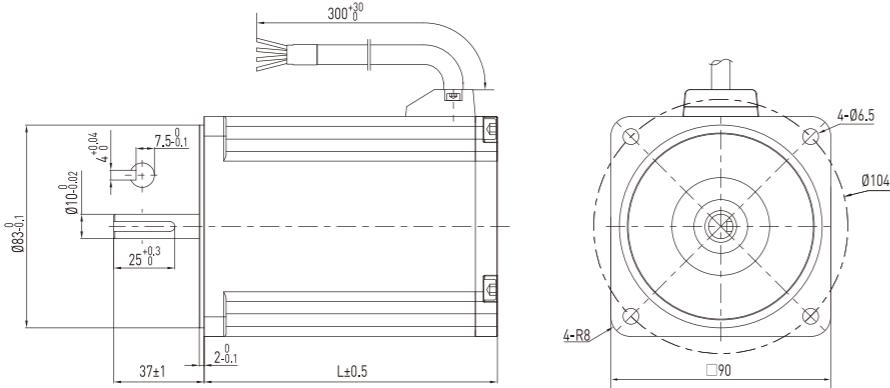


BLDC SERIES 9090

■90电机参数 90 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD90S100D24	24V	100W	0.478N.M	2700RPM	< 0.6A	2000RPM	5.21A	Both	> 5000	75mm	NO	1700g
GSBLD90S100D310	310V	100W	0.478N.M	2600RPM	< 0.4A	2000RPM	0.4A	Both	> 5000	75mm	NO	1700g
GSBLD90S200D24	24V	200W	0.955N.M	2700RPM	< 0.8A	2000RPM	10.42A	Both	> 5000	90mm	NO	2100g
GSBLD90S200D310	310V	200W	0.955N.M	2600RPM	< 0.6A	2000RPM	0.81A	Both	> 5000	90mm	NO	2100g
GSBLD90S400D24	24V	400W	1.91N.M	2700RPM	< 1.8A	2000RPM	20.83A	Both	> 5000	105mm	NO	2300g
GSBLD90S400D310	310V	400W	1.91N.M	2600RPM	< 1.2A	2000RPM	1.61A	Both	> 5000	105mm	NO	2300g

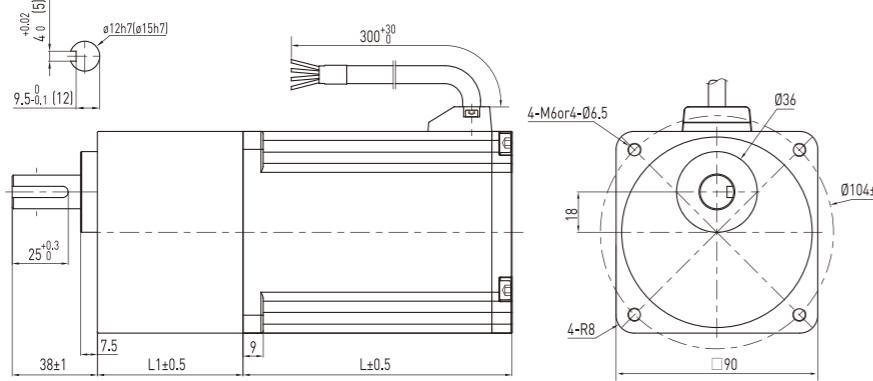
■尺寸图 DIMENSIONAL DRAWING



■90齿轮箱 90 GEAR BOX

减速比 Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
	667	556	400	333	267	222	200	160	133	111	80	67	56	40	33	27	22	20	17	13	11	10
输出轴转速 Output Speed	0.7	0.84	1.16	1.39	1.74	2.09	2.26	2.61	3.14	3.76	4.73	5.67	6.81	9.45	11.35	14.18	15.21	16.9	20	20	20	20
允许力矩 N.m Allowance Torque	2.06	2.48	3.44	4.13	5.16	6.19	6.19	7.75	9.30	11.2	11.2	14.0	16.8	20.0	22.4	28.0	33.6	39.2	39.2	39.2	39.2	39.2

■尺寸图 DIMENSIONAL DRAWING



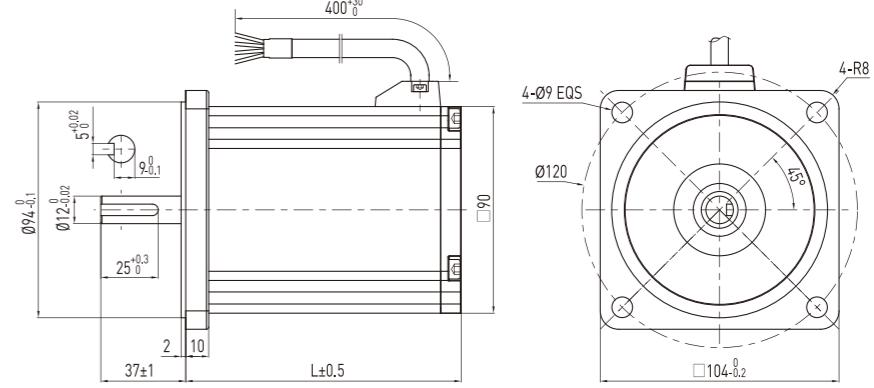
容许力矩单位 Allowance Torque Unit: N.m

BLDC SERIES 10490

■90电机参数 90 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD90S100D24	24V	100W	0.478N.M	2700RPM	< 0.6A	2000RPM	5.21A	Both	> 5000	75mm	NO	1700g
GSBLD90S100D310	310V	100W	0.478N.M	2600RPM	< 0.4A	2000RPM	0.4A	Both	> 5000	75mm	NO	1700g
GSBLD90S200D24	24V	200W	0.955N.M	2700RPM	< 0.8A	2000RPM	10.42A	Both	> 5000	90mm	NO	2100g
GSBLD90S200D310	310V	200W	0.955N.M	2600RPM	< 0.6A	2000RPM	0.81A	Both	> 5000	90mm	NO	2100g
GSBLD90S400D24	24V	400W	1.91N.M	2700RPM	< 1.8A	2000RPM	20.83A	Both	> 5000	105mm	NO	2300g
GSBLD90S400D310	310V	400W	1.91N.M	2600RPM	< 1.2A	2000RPM	1.61A	Both	> 5000	105mm	NO	2300g

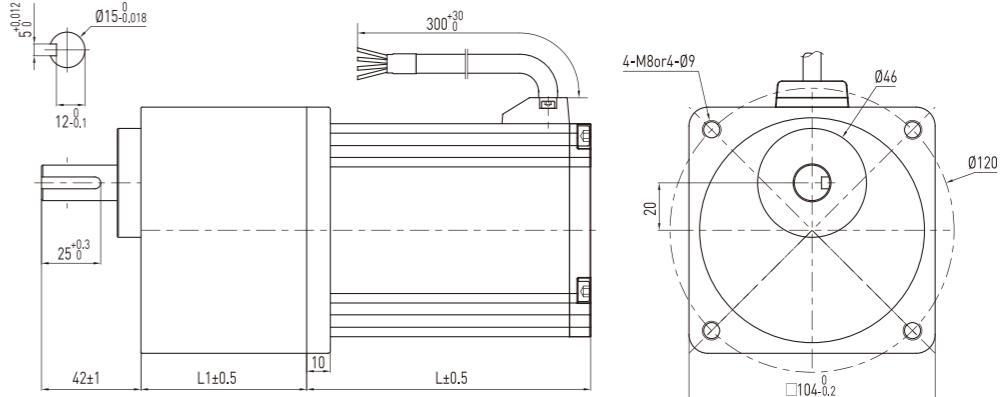
■尺寸图 DIMENSIONAL DRAWING



■104齿轮箱 104 GEAR BOX

减速比 Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
输出轴转速 Output Speed	667	556	400	333	267	222	200	160	133	111	100	80	67	56	40	33	27	22	20	17	13	
允许力矩 N.m Allowable Torque	2.06	2.48	3.44	4.13	5.16	6.19	6.19	7.75	9.30	11.2	11.2	14.0	16.8	20.0	22.4	28.0	33.6	39.2	39.2	39.2	39.2	

■尺寸图 DIMENSIONAL DRAWING





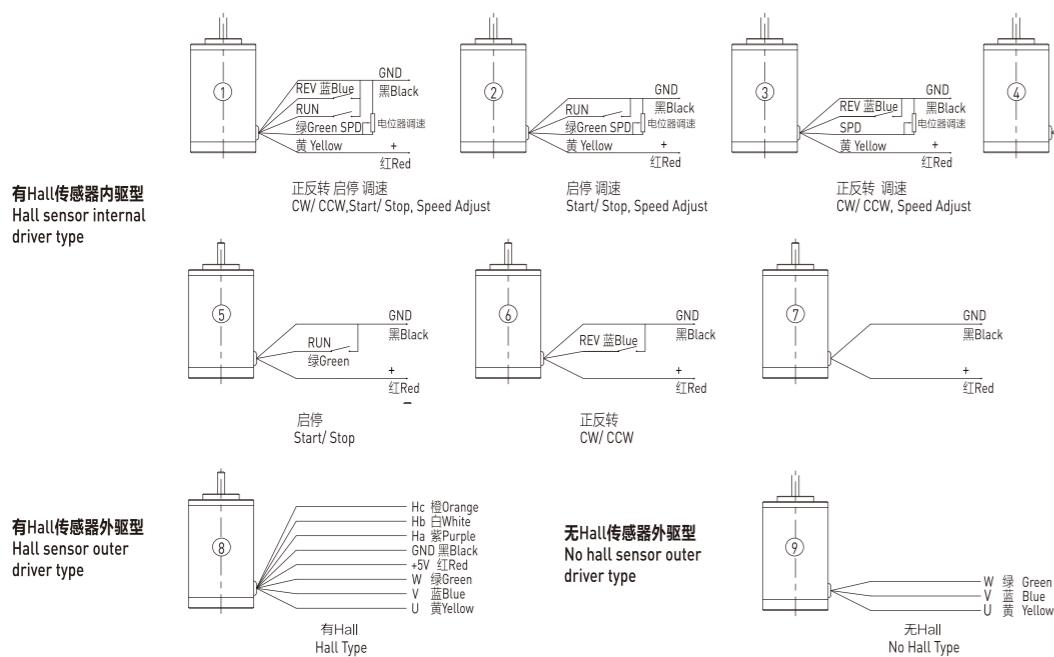
■ 电机型号说明 MOTOR MODEL EXPLANATION

GS BLD 60 S 25 D12 / 60 G 40K

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① 绿天 Greensky
② 直流无刷电机 Brushless DC Motor
③ 电机尺寸 Motor Dimension 60: 60mm 80: 80mm 90: 90mm 29: 29mm
④ 电机类型 Motor Type S: Square Type R: Round Type
⑤ 功率 Power 25: 25W 60: 60W 80: 80W
⑥ 电压 Voltage (D=DC) 12: 12V 24: 24V 310: 310V
⑦ 齿轮箱尺寸 Gearbox Dimension 60: 60mm 80: 80mm 90: 90mm 28: 28mm
⑧ 齿轮箱类型 Gearbox Type G: 齿轮箱Square Gearbox P: 行星齿轮箱Planetary Gearbox
⑨ 减速比 Gear Ratio 40K: 40:1

■ 常用接线图示 THE STANDARD WIRES CONTACT DRAWINGS



■ 订购说明 NOTE FOR ROUND BLDC GEAR MOTOR

GREENSKY圆形无刷直流电机包括三类, THREE TYPES of BLDC MOTOR

■ 有刷电机的替代品 Alternative for brush motor

此系列产品高度集合内置驱动器, 使用方便, 可替代有刷电机。为需要长寿命电机的客户提供了较好的解决方案。

It has simple internal driver, long service life and is easy to use. It could replace brush motor. It provides a good solution for customers who need long service life motor.

1.1: 防护等级为IP23。

Protection class is IP23.

1.2: 内置简易驱动器, 原则上只提供两根线, 不提供其他例如转速调整, 正反转, 启停等功能。

It has internal driver with 2 wires only, which doesn't include the functions of speed adjustment, reverse, and start / stop.

■ 无刷电机的常规品 Standard Brushless motor

可全面适配低精度和高精度行星齿轮, 是小众客户适合零配的产品。此类产品可内置驱动器, 使用方便, 结构合理紧凑。

It can match transmission planetary gear box and precise planetary gear box, which provides a good choice for customized products. We can supply motor with internal driver, which has long service life and is easy to use.

1.1: 防护等级为IP40, 部分可做到IP67。

Protection class is IP40, some of them can reach IP 67.

1.2: 内置驱动器可根据客户需求外接正反转, 启停, 调速等功能, 在驱动器选型中请重点考虑电流值的大小。

Internal driver can be connected to outside device to do speed adjustment, reverse and start/stop, please select according to current value.

We can contact outside for function of speed adjusting, reverse, and start / stop, please select according to current value.

■ 无刷电机的常规品结合传动行星齿轮箱 Standard brushless motor with planetary gear box

具有体积小, 输出大, 结构紧凑等特点, 是小众客户适合零配的产品。此类产品可内置驱动器, 使用方便。一般来说, 防护等级为IP40。

It has advantages of small size, big output torque, compact structure, etc, which is a good choice for customized products.

These products can have internal driver and can be customized according to requests.

1.1: 防护等级为IP40。

protection class is IP40.

1.2: 内置驱动器。

Internal driver available.

产品的使用均在样本册规定范围内, 客户在使用前请详细阅读使用说明, GREENSKY 为产品保修一年。

Customer needs to use the product according to the manual / instruction of catalog. Please read the note carefully before you use. GREENSKY provides one year warranty.

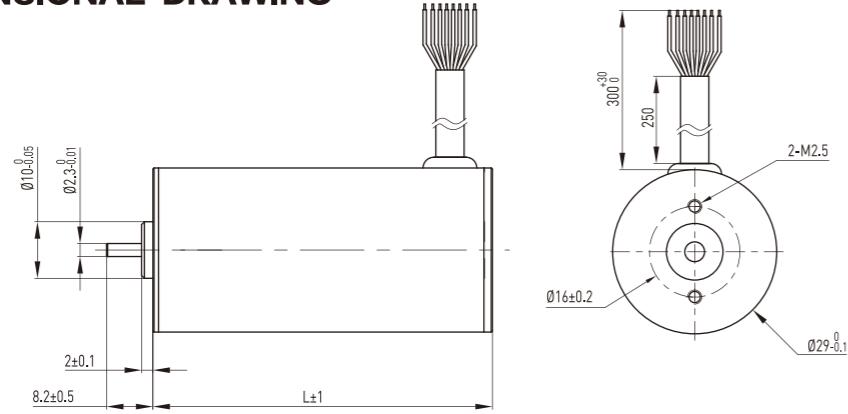
此产品通过CE认证。

We have CE certification for product.

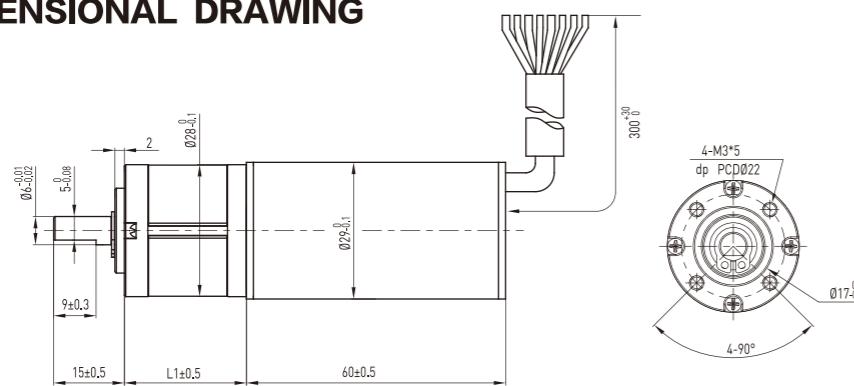
**BLDC SERIES
2829**

■ 29 电机参数 29 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD29R5D12	12V	5W	0.016N.M	3700RPM	< 0.2A	3000RPM	0.83A	Both	> 5000	60mm	YES	165g
GSBLD29R5D24	24V	5W	0.016N.M	3600RPM	< 0.2A	3000RPM	0.42A	Both	> 5000	60mm	YES	165g
GSBLD29R3D12	12V	3W	0.010N.M	3700RPM	< 0.2A	3000RPM	0.50A	Both	> 5000	50mm	YES	150g
GSBLD29R3D24	24V	3W	0.010N.M	3600RPM	< 0.2A	3000RPM	0.25A	Both	> 5000	50mm	YES	150g

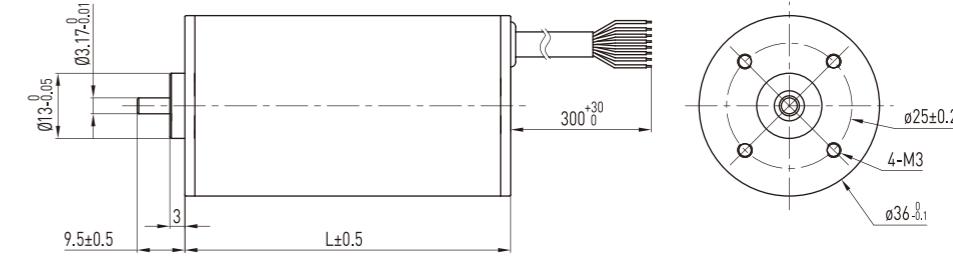
■ 尺寸图 DIMENSIONAL DRAWING

■ 28齿轮箱 28 GEAR BOX
■ 行星减速箱数据 PLANETARY GEARBOX DATA

级数 No.of stage	1级 1stage	2级 2stage	3级 3stage	4级 4stage	5级 5stage
减速比 Ratio	3.3,4.6	11.2,15.5,21.5	37.7,52.1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 "L1" Gearbox Length(mm)	20.2	25.9	31.7	37.5	43.3
最大额定矩 Max Rated Torque (N.M)	0.5	1.0	2.5	2.5	2.5
最大损坏力矩 Max Broken Torque(N.M)	1.5	3.0	7.5	7.5	7.5
效率 Gearing Efficiency	90%	81%	73%	65%	59%

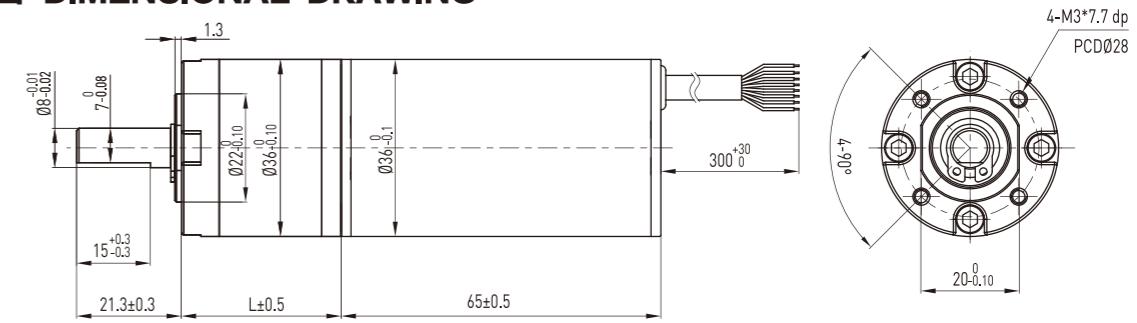
■ 尺寸图 DIMENSIONAL DRAWING

**BLDC SERIES
3636**

■ 36 电机参数 36 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD36R15D12	12V	15W	0.048N.M	3800RPM	< 0.4A	3000RPM	1.92A	Both	> 5000	65mm	YES	255g
GSBLD36R15D24	24V	15W	0.048N.M	3700RPM	< 0.3A	3000RPM	0.96A	Both	> 5000	65mm	YES	255g
GSBLD36R10D12	12V	10W	0.032N.M	3800RPM	< 0.3A	3000RPM	1.28A	Both	> 5000	55mm	YES	240g
GSBLD36R10D24	24V	10W	0.032N.M	3700RPM	< 0.3A	3000RPM	0.64A	Both	> 5000	55mm	YES	240g
GSBLD36R5D12	12V	5W	0.016N.M	3800RPM	< 0.3A	3000RPM	0.64A	Both	> 5000	45mm	YES	220g
GSBLD36R5D24	24V	5W	0.016N.M	3700RPM	< 0.3A	3000RPM	0.32A	Both	> 5000	45mm	YES	220g

■ 尺寸图 DIMENSIONAL DRAWING

■ 36齿轮箱 36 GEAR BOX
■ 行星减速箱数据 PLANETARY GEARBOX DATA

级数 No.of stage	1stage	2stage	3stage	4stage	5stage
减速比 Ratio	3.7	5.2	13.7	19.2	26.9
额定转速 Rated speed rpm	810	577	219	156	112
额定扭矩 N.m Rated torque	0.15	0.22	0.52	0.74	1
最大额定矩 Max Rated Torque (N.M)	1	2	5	5	5
最大损坏力矩 Max Broken Torque(N.M)	3	6	15	15	15
效率 Gearing Efficiency	90%	81%	73%	65%	59%
L mm	25.1	32.3	38.5	44.7	50.9

■ 尺寸图 DIMENSIONAL DRAWING


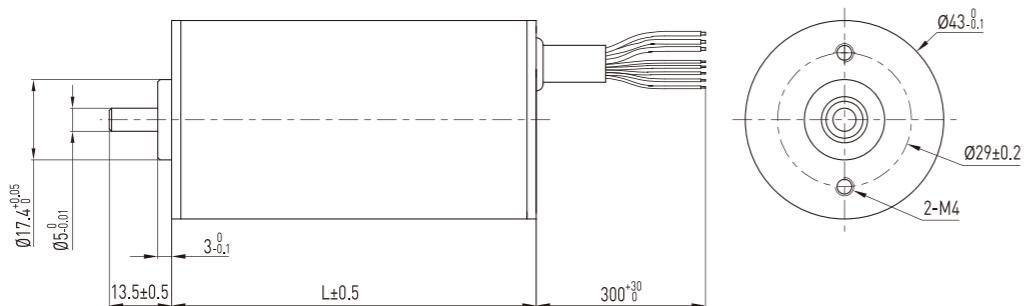
BLDC SERIES 4243



■ 43电机参数 43 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSLBLD43R30D12	12V	30W	0.096N.M	4000RPM	< 0.6A	3000RPM	3.85A	Both	> 5000	80mm	YES	500g
GSLBLD43R30D24	24V	30W	0.096N.M	3700RPM	< 0.4A	3000RPM	1.92A	Both	> 5000	80mm	YES	500g
GSLBLD43R20D12	12V	20W	0.064N.M	4000RPM	< 0.5A	3000RPM	2.56A	Both	> 5000	70mm	YES	450g
GSLBLD43R20D24	24V	20W	0.064N.M	3700RPM	< 0.4A	3000RPM	1.28A	Both	> 5000	70mm	YES	450g
GSLBLD43R15D12	12V	15W	0.048N.M	4000RPM	< 0.4A	3000RPM	1.92A	Both	> 5000	60mm	YES	410g
GSLBLD43R15D24	24V	15W	0.048N.M	3700RPM	< 0.4A	3000RPM	0.96A	Both	> 5000	60mm	YES	410g

■ 尺寸图 DIMENSIONAL DRAWING

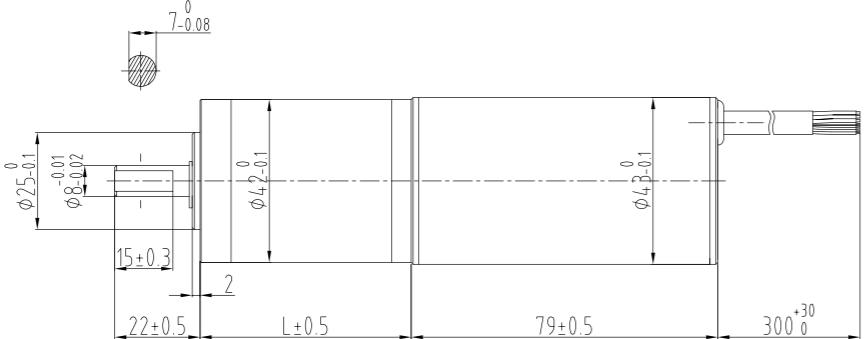


■ 42齿轮箱 42 GEAR BOX

■ 行星减速箱数据 PLANETARY GEARBOX DATA

级数 No.of stage	1stage	2stage	3stage	4stage	5stage
减速比 Ratio	3.7	5.2	13.7	19.2	26.9
额定转速 Rated speed rpm	810	577	219	156	112
额定扭矩 N.m Rated torque	0.31	0.44	1	1.48	1.87
最大额定矩 Max Rated Torque (N.M)	2	6	12	12	12
最大损坏力矩 Max Broken Torque(N.M)	6	18	36	36	36
效率 Gearing Efficiency	90%	81%	73%	65%	59%
L mm	31.8	43.1	54.4	65.7	77

■ 尺寸图 DIMENSIONAL DRAWING



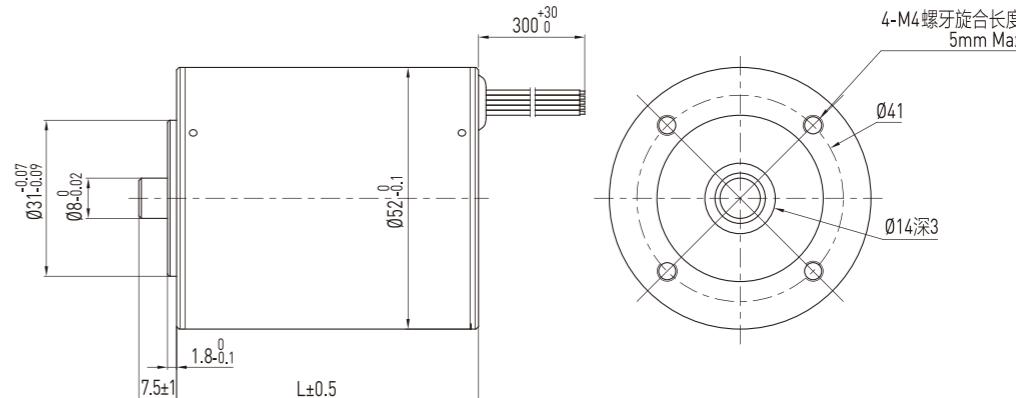
BLDC SERIES 5252



■ 52电机参数 52 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSLBLD52R50D12	12V	50W	0.159N.M	4000RPM	< 0.8A	3000RPM	6.94A	Both	> 5000	60mm	YES	455g
GSLBLD52R50D24	24V	50W	0.159N.M	3700RPM	< 0.4A	3000RPM	3.47A	Both	> 5000	60mm	YES	455g

■ 尺寸图 DIMENSIONAL DRAWING

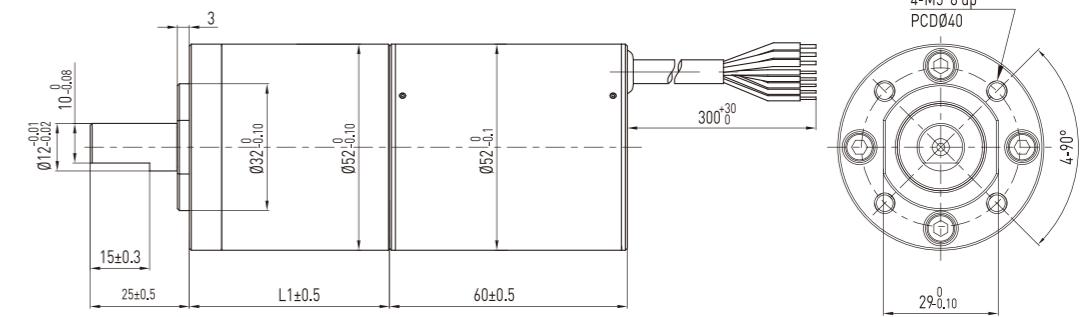


■ 52齿轮箱 52 GEAR BOX

■ 行星减速箱数据 PLANETARY GEARBOX DATA

级数 No.of stage	1stage	2stage	3stage	4stage	5stage
减速比 Ratio	3.7	5.2	13.7	19.2	26.9
额定转速 Rated speed rpm	810	577	219	156	112
额定扭矩 N.m Rated torque	0.53	0.74	1.76	2.47	3.45
最大额定矩 Max Rated Torque (N.M)	3	8	15	15	15
最大损坏力矩 Max Broken Torque(N.M)	9	24	45	45	45
效率 Gearing Efficiency	90%	81%	73%	65%	59%
L mm	27.3	38.9	50.5	62.1	73.7

■ 尺寸图 DIMENSIONAL DRAWING



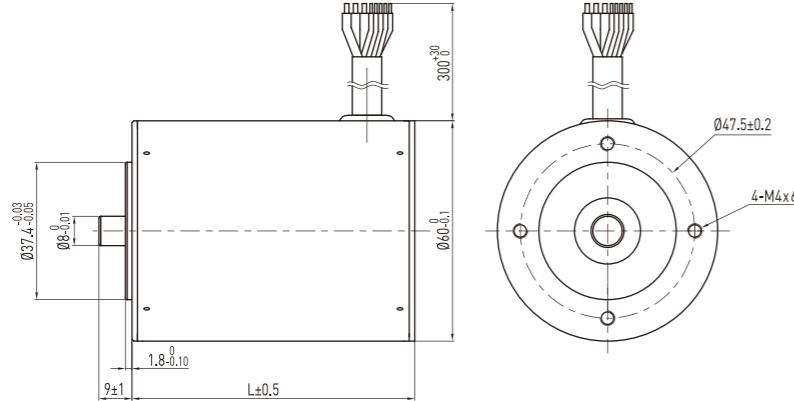
BLDC SERIES 5660



■ 60 电机参数 60 MOTOR DATA

电机型号 Type	电压 Voltage	额定功率 Power	额定扭矩 Rated Torque	空载转速 No load Speed	空载电流 No load Current	负载转速 Rated Speed	负载电流 Rated Current	有否 Hall(Y/N)	电机寿命 Life(Hours)	机身长度 Length	内驱 Internal Drive	电机重量 Weight
GSBLD60R80D24	24V	80W	0.255N.M	3900RPM	< 0.7A	3000RPM	4.44A	Both	> 5000	77mm	No	850g
GSBLD60R80D310	310V	80W	0.255N.M	3900RPM	< 0.3A	3000RPM	0.32A	Both	> 5000	77mm	No	850g
GSBLD60R120D24	24V	120W	0.382N.M	3900RPM	< 0.8A	3000RPM	6.67A	Both	> 5000	87mm	No	900g
GSBLD60R120D310	310V	120W	0.382N.M	3900RPM	< 0.3A	3000RPM	0.48A	Both	> 5000	87mm	No	900g

■ 尺寸图 DIMENSIONAL DRAWING

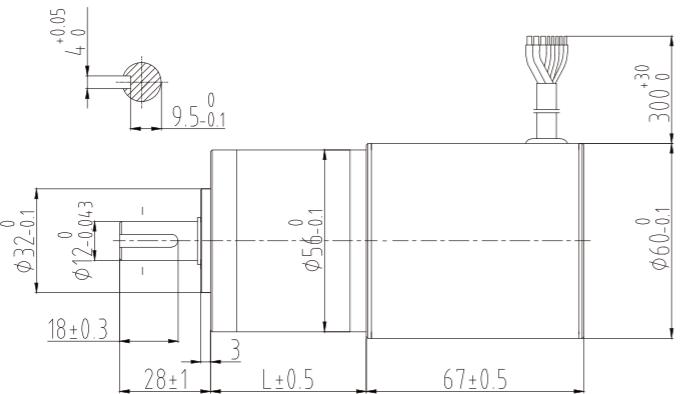


■ 56齿轮箱 56 GEAR BOX

■ 行星减速箱数据 PLANETARY GEARBOX DATA

级数 No.of stage	1stage		2stage		3stage		4stage		5stage				
减速比 Ratio	3.6	4.3	13	19.2	22.7	46.7	69	102	121	198	276	326	409
额定转速 Rated speed rpm	833	697	230	156	132	64	43	29	24	15	11	9	7
额定扭矩 N.m Rated torque	0.6	0.7	2	2.9	3.5	6.5	9.6	14.2	16.8	20	20	20	20
最大额定矩 Max Rated Torque (N.M)	5		10		20		20		20	20	20	20	20
最大损坏力矩 Max Broken Torque(N.M)	15		30		60		60		60	20	20	20	20
效率 Gearing Efficiency	90%		81%		73%		65%		59%				
L mm	34.1		48		61.9		75.8		92.2				

■ 尺寸图 DIMENSIONAL DRAWING



■ 电动机型号说明 DESCRIPTION OF MOTOR MODEL

GS 5(5) D(W) 60 – 24 GU 30S

① ② ③ ④ ⑤ ⑥ ⑦

①	公司名称 Comapny	杭州绿天 Greensky					
型号尺寸 (Model Dimension)							
②	机座号Code	2	3	4	5	55	6
	电机安装法兰 Mounting Flange mm	60x60	70x70	80x80	90x90	90x90	104x104
	机壳直径Case Diameter mm	60	60	80	80	90	90
D: 直流电动机 (D:DC MOTOR) DW: 针对60、70系列电机D后加W表示外置电刷电机 For 60、70 series motor, DW means external brush motor D means the standard internal brush motor							
④	输出功率Output Power	(例) 60: 60W					
⑤	电源电压Voltage	(例) 24: 24V					
⑥	电机轴形状Shape of Motor Shaft	GN:普通型斜齿 GN: General Helical Gear A1:铣键槽 A1: Milling Keyway GU:加强型斜齿 GU: Reinforced Helical Gear A: 铣扁 A: Flat Type					
⑦	电机转速Speed	(例) 30S: 3000RPM					

■ 减速器型号说明 DESCRIPTION OF REDUCER MODEL

5 GN 50 K

① ② ③ ④

①	型号尺寸Model Dimension	2:60mm 3:70mm 4:80mm 5:90mm 6:104mm
②	齿轮种类Gear Type	GN:普通型齿轮轴 GN: General Helical Gear GU:加强型齿轮轴 GU: Reinforced Helical Gear
③	减速比Gear Ratio	(例e.g) 50: 减速比 Gear Ratio Of 50:1 10x 仅限减速器10:1的中间减速比 10x Denotes The Decimal Gear head Of Ratio 10:1
④	轴承种类 Bearing Type	K:滚珠轴承 (对GU型方箱体标注为KB) Bearing(Make KB for Type GU Square Case)

**DC SERIES
2D06**

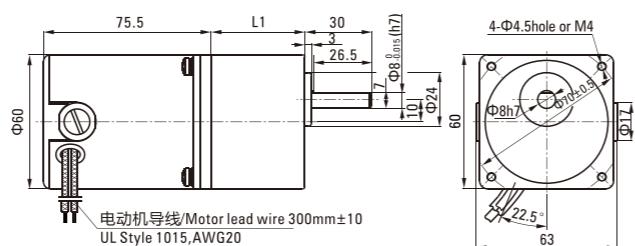
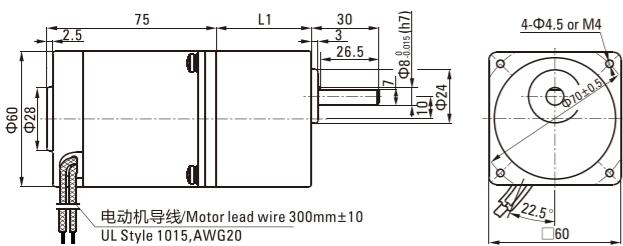
■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS2D06-12	12	6	3200	0.6 MAX	2950	19	0.8	2000	0.6
GS2DW06-12	12	6	3200	0.6 MAX	2950	19	0.8	2000	0.6
GS2D06-24	24	6	3200	0.3 MAX	2950	19	0.5	2000	0.6
GS2DW06-24	24	6	3200	0.3 MAX	2950	19	0.5	2000	0.6
GS2D06-90	90	6	3000	0.2 MAX	2800	20	0.3	2000	0.6
GS2DW06-90	90	6	3000	0.2 MAX	2800	20	0.3	2000	0.6

■ 减速箱基本性能参数 Gear head main technical parameters

允许扭矩单位: 上侧(N.m)/ 下侧(kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 RPM Speed	983	819	590	492	393	328	295	236	197	164	148	118	98	82	74	59	49	39	33	30	25	20	16	15
GS2D06-24GN	2GN□K	0.05	0.06	0.08	0.09	0.12	0.14	0.16	0.20	0.24	0.28	0.28	0.35	0.42	0.51	0.57	0.71	0.76	0.96	1.15	1.27	1.53	1.91	2.29	2.55
		0.46	0.56	0.77	0.93	1.16	1.39	1.54	1.93	2.31	2.78	2.78	3.47	4.16	5.00	5.55	6.94	7.49	9.37	11.20	12.50	15.00	18.70	22.50	25.00

■ 外形及安装尺寸图 Outline and installation dimension drawing

**DC SERIES
2D10**

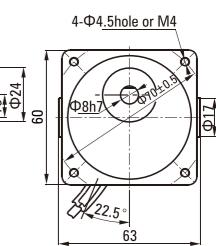
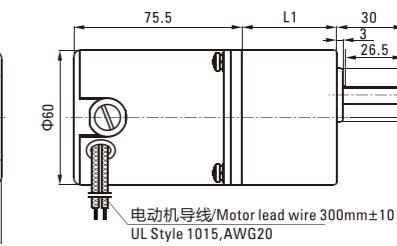
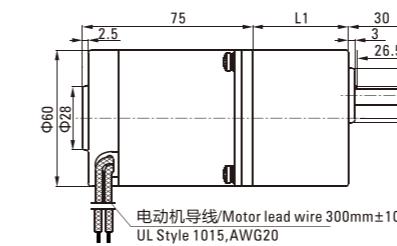
■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS2D10-12	12	10	3200	1.0 MAX	2800	34	2.0	2000	0.7
GS2DW10-12	12	10	3200	1.0 MAX	2800	34	2.0	2000	0.7
GS2D10-24	24	10	3300	0.5 MAX	3000	32	0.9	2000	0.7
GS2DW10-24	24	10	3300	0.5 MAX	3000	32	0.9	2000	0.7
GS2D10-90	90	10	3200	0.3 MAX	2800	34	0.6	2000	0.7
GS2DW10-90	90	10	3200	0.3 MAX	2800	34	0.6	2000	0.7

■ 减速箱基本性能参数 Gear head main technical parameters

允许扭矩单位: 上侧(N.m)/ 下侧(kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 RPM Speed	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
GS2D10-24GN	2GN□K	0.08	0.09	0.13	0.15	0.19	0.23	0.26	0.32	0.39	0.46	0.46	0.58	0.7	0.84	0.93	1.16	1.25	1.75	1.88	2.09	2.51	3.0	3.0	3.0
		0.76	0.91	1.26	1.52	1.90	2.27	2.53	3.16	3.79	4.55	4.55	5.69	6.82	8.19	9.1	11.40	12.30	15.40	18.40	20.50	24.60	30.0	30.0	30.0

■ 外形及安装尺寸图 Outline and installation dimension drawing


**DC SERIES
2D15**

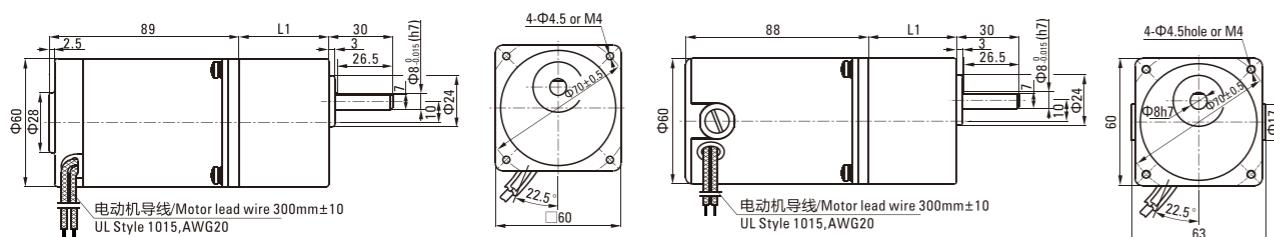
■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS2D15-12	12	15	3200	0.8 MAX	2950	48	2.0	2000	0.9
GS2DW15-12	12	15	3200	0.8 MAX	2950	48	2.0	2000	0.9
GS2D15-24	24	15	3300	0.4 MAX	3000	48	1.0	2000	0.9
GS2DW15-24	24	15	3300	0.4 MAX	3000	48	1.0	2000	0.9
GS2D15-90	90	15	3200	0.2 MAX	3000	48	0.4	2000	0.9
GS2DW15-90	90	15	3200	0.2 MAX	3000	48	0.4	2000	0.9

■ 减速箱基本性能参数 Gear head main technical parameters

允许扭矩单位: 上侧(N.m)/ 下侧(kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 RPM Speed	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
GS2D15-24GN	2GN□K	0.12	0.14	0.19	0.23	0.26	0.35	0.39	0.48	0.58	0.7	0.7	0.87	1.04	1.25	1.39	1.74	1.88	2.35	2.82	3.0	3.0	3.0	3.0	3.0
		1.14	1.36	1.90	2.27	2.84	3.41	3.79	4.74	5.69	6.82	6.82	8.53	10.23	12.28	13.65	17.10	18.40	23.00	27.60	30.0	30.0	30.0	30.0	30.0

■ 外形及安装尺寸图 Outline and installation dimension drawing

**DC SERIES
3D25**

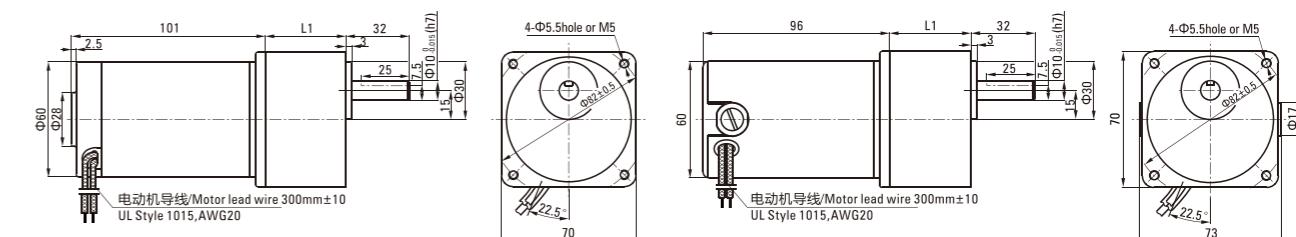
■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS3D25-12	12	25	3300	1.0 MAX	3000	80	3.5	2000	1.0
GS3DW25-12	12	25	3300	1.0 MAX	3000	80	3.5	2000	1.0
GS3D25-24	24	25	3200	0.5 MAX	2800	85	1.6	2000	1.0
GS3DW25-24	24	25	3200	0.5 MAX	2800	85	1.6	2000	1.0
GS3D25-90	90	25	3100	0.3 MAX	2700	88	0.6	2000	1.0
GS3DW25-90	90	25	3100	0.3 MAX	2700	88	0.6	2000	1.0

■ 减速箱基本性能参数 Gear head main technical parameters

允许扭矩单位: 上侧(N.m)/ 下侧(kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 RPM Speed	933	778	560	467	373	311	280	224	187	156	140	112	93	78	70	56	47	37	31	28	23	19	16	14
GS3D25-24GN	3GN□K	0.21	0.25	0.35	0.41	0.52	0.62	0.69	0.86	1.04	1.24	1.24	1.55	1.86	2.24	2.49	3.11	3.73	4.66	5.0	5.0	5.0	5.0	5.0	5.0
		2.03	2.44	3.38	4.06	5.08	6.09	6.77	8.46	10.20	12.20	12.2	15.20	18.30	21.90	24.4	30.50	36.60	45.70	50.0	50.0	50.0	50.0	50.0	50.0

■ 外形及安装尺寸图 Outline and installation dimension drawing


**DC SERIES
4D25**

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS4D25-12	12	25	3200	1.4 MAX	3100	77	3.6	2000	1.7
GS4D25-24	24	25	3000	0.7 MAX	2850	84	1.7	2000	1.7
GS4D25-90	90	25	3200	0.2 MAX	3000	80	0.5	2000	1.7

**DC SERIES
4D40**

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS4D40-12	12	40	3100	2.0 MAX	2800	136	5.2	2000	1.8
GS4D40-24	24	40	3100	0.8 MAX	3000	127	2.1	2000	1.8
GS4D40-90	90	40	3200	0.3 MAX	3000	127	0.7	2000	1.8

■ 减速箱基本性能参数 Gear head main technical parameters

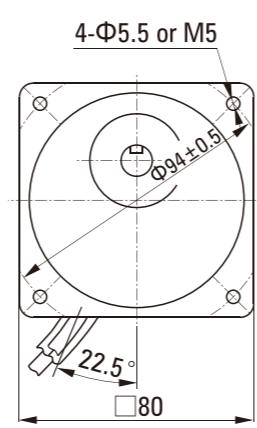
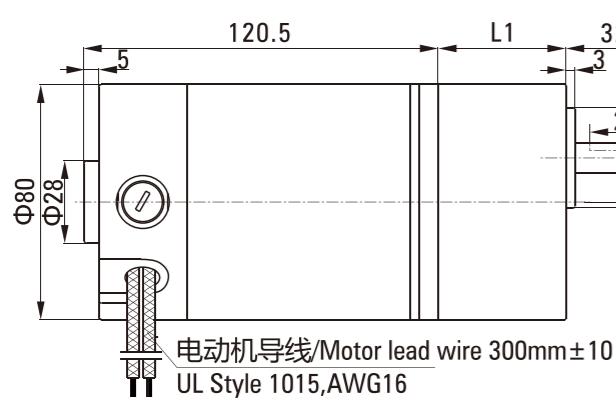
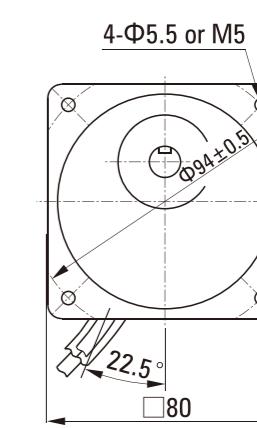
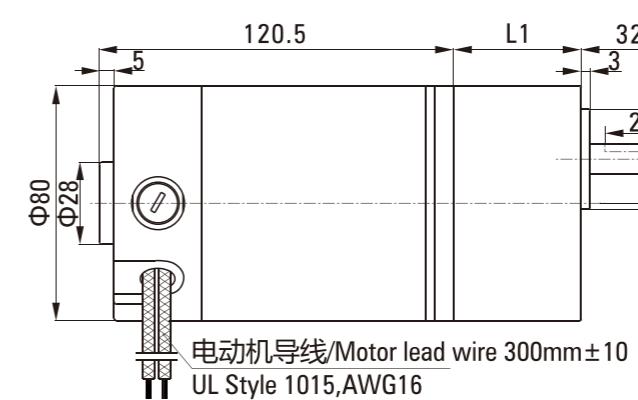
Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 RPM Speed	950	792	570	475	380	317	285	228	190	158	143	114	95	79	71	57	48	38	32	29	24.0	19.0	16.0	14.0
GS4D25-24GN		0.20	0.24	0.34	0.41	0.51	0.61	0.68	0.85	1.02	1.22	1.36	1.53	1.83	2.2	2.44	3.05	3.3	4.12	4.95	5.5	6.6	8.0	8.0	8.0
	4GN□K	1.99	2.39	3.32	3.99	4.99	5.98	6.65	8.31	10.00	12.00	13.3	15.00	18.00	21.50	23.90	29.90	32.30	40.40	48.50	53.9	64.6	80.0	80.0	80.0

■ 减速箱基本性能参数 Gear head main technical parameters

Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 RPM Speed	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
GS4D40-24GN		0.31	0.37	0.52	0.62	0.77	0.93	1.03	1.29	1.55	1.86	2.06	2.32	2.78	3.34	3.71	4.64	5.01	6.27	7.52	8.0	8.0	8.0	8.0	8.0
	4GN□K	3.03	3.64	5.05	6.06	7.58	9.10	10.10	12.60	15.20	18.20	20.2	22.70	27.30	32.70	36.40	45.50	49.10	61.40	73.70	80.0	80.0	80.0	80.0	80.0

■ 外形及安装尺寸图 Outline and installation dimension drawing

■ 外形及安装尺寸图 Outline and installation dimension drawing


DC SERIES 5D40



■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS5D40-12	12	40	3100	2.0 MAX	2800	136	5.2	2000	1.9
GS5D40-24	24	40	3000	1.0 MAX	2800	136	2.6	2000	1.9
GS5D40-90	90	40	3200	0.3 MAX	3000	127	0.7	2000	1.9

DC SERIES 5D60



■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS5D60-12	12	60	3000	2.0 MAX	2600	220	9.0	2000	2.2
GS5D60-24	24	60	3100	1.0 MAX	2800	205	3.8	2000	2.2
GS5D60-90	90	60	3100	0.3 MAX	2900	198	1.0	2000	2.2

■ 减速箱基本性能参数 Gear head main technical parameters

Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

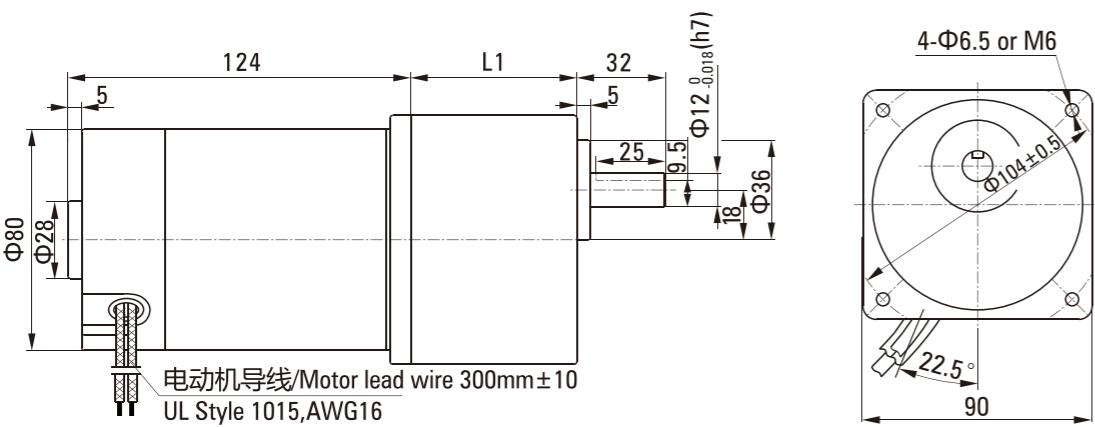
型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
		转速 RPM Speed	933	778	560	467	373	311	280	224	187	156	140	112	93	78	70	56	47	37	31	28	23	19	16
GS5D40-24GN	5GN□K	0.33	0.40	0.55	0.66	0.83	0.99	1.11	1.38	1.66	1.79	1.99	2.49	2.98	3.58	3.58	4.48	5.37	6.71	8.06	8.95	10.0	10.0	10.0	10.0
		3.25	3.90	5.41	6.50	8.12	9.75	10.80	13.50	16.20	17.50	19.5	24.40	29.20	35.10	35.10	43.90	52.60	65.80	78.90	87.7	100.0	100.0	100.0	100.0

■ 减速箱基本性能参数 Gear head main technical parameters

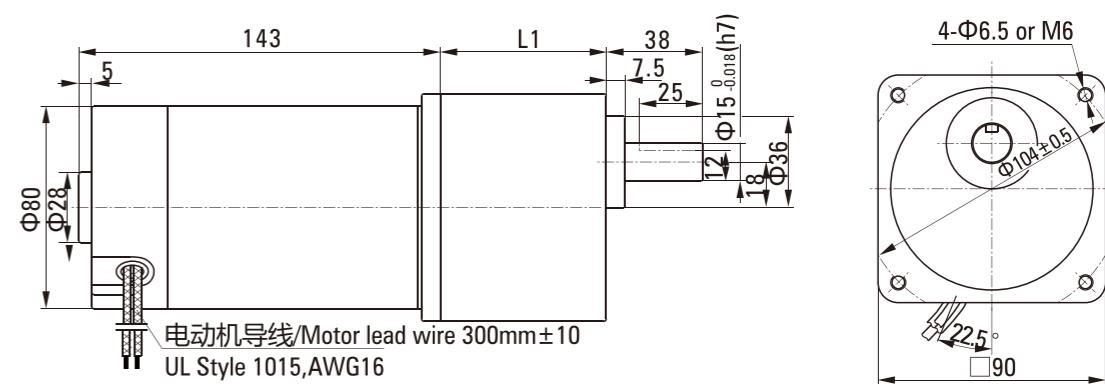
Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
		转速 RPM Speed	933	778	560	467	373	311	280	224	187	156	140	112	93	78	70	56	47	37	31	28	23	19	16
GS5D60-24GU	5GU□KB	0.50	0.60	0.83	0.99	1.24	1.49	1.49	1.86	2.24	2.69	2.69	3.36	4.03	4.83	5.37	6.71	8.06	10.1	10.9	12.10	14.5	18.1	20.0	20.0
		4.87	5.85	8.12	9.75	12.20	14.60	14.60	18.30	21.90	26.30	26.30	32.90	39.50	47.40	52.60	65.80	78.90	98.70	107.0	118.0	142.0	178.0	200.0	200.0

■ 外形及安装尺寸图 Outline and installation dimension drawing



■ 外形及安装尺寸图 Outline and installation dimension drawing



**DC SERIES
5D90**

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS5D90-12	12	90	3100	2.0 MAX	2600	330	12.0	2000	2.2
GS5D90-24	24	90	3300	1.0 MAX	2800	307	5.0	2000	2.2
GS5D90-90	90	90	3000	0.3 MAX	2900	307	1.4	2000	2.2

**DC SERIES
5D120**

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS5D120-12	12	120	3100	2.0 MAX	2500	458	15.0	2000	2.2
GS5D120-24	24	120	3200	1.0 MAX	2600	441	7.0	2000	2.2
GS5D120-90	90	120	3000	0.3 MAX	2600	441	2.0	2000	2.2

■ 减速箱基本性能参数 Gear head main technical parameters

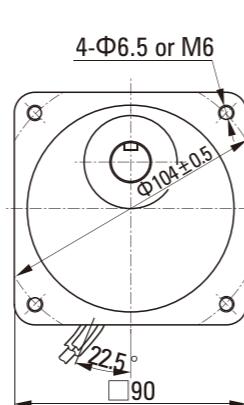
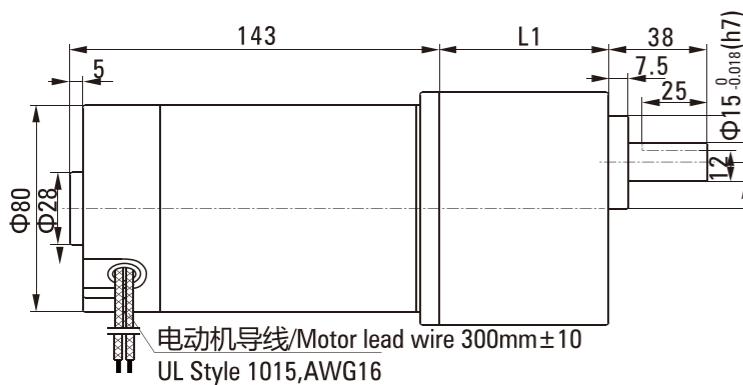
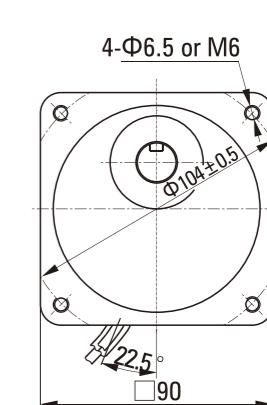
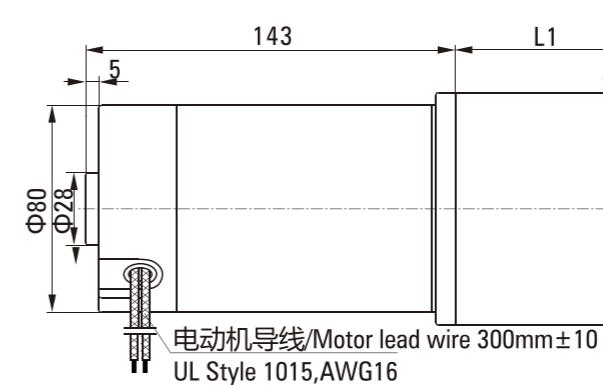
Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
		转速 RPM Speed	933	778	560	467	373	311	280	224	187	156	140	112	93	78	70	56	47	37	31	28	23	19	16
GS5D90-24GU	0.75	0.90	1.24	1.49	1.86	2.24	2.24	2.80	3.36	4.03	4.03	5.03	6.04	7.25	8.06	10.1	12.4	15.1	16.3	18.10	20.0	20.0	20.0	20.0	20.0
	5GU□KB	7.31	8.77	12.20	14.60	18.30	21.90	21.90	27.40	32.90	39.50	39.5	49.30	59.20	71.10	78.90	98.70	118.0	148.0	160.0	178.0	200.0	200.0	200.0	200.0

■ 减速箱基本性能参数 Gear head main technical parameters

Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
		转速 RPM Speed	867	722	520	433	347	289	260	208	173	144	130	104	87	72	65	52	43	35	29	26	22	17	14	13
GS5D120-24GU	1.07	1.29	1.79	2.14	2.68	3.21	3.21	4.02	4.82	5.78	5.78	7.23	8.68	10.4	11.6	14.5	17.4	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
	5GU□KB	10.50	12.60	17.50	21.00	26.20	31.50	31.50	39.40	47.20	56.70	56.7	70.90	85.00	102.0	113.0	142.0	170.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0

■ 外形及安装尺寸图 Outline and installation dimension drawing

■ 外形及安装尺寸图 Outline and installation dimension drawing


**DC SERIES
55D250**

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS55D250-24	24	250	3400	3.0 MAX	3000	796	16.0	2000	3.2
GS55D250-90	90	250	3300	1.2 MAX	3000	796	4.2	2000	3.2
GS55D250-220	220	250	3300	0.9 MAX	3000	796	2.2	2000	3.2

**DC SERIES
6D250**

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)	电机重量 Weight kg
GS6D250-24	24	250	3400	3.0 MAX	3000	796	16.0	2000	3.2
GS6D250-90	90	250	3300	1.0 MAX	3000	796	4.0	2000	3.2
GS6D250-220	220	250	3300	0.8 MAX	3000	796	2.0	2000	3.2

■ 减速箱基本性能参数 Gear head main technical parameters

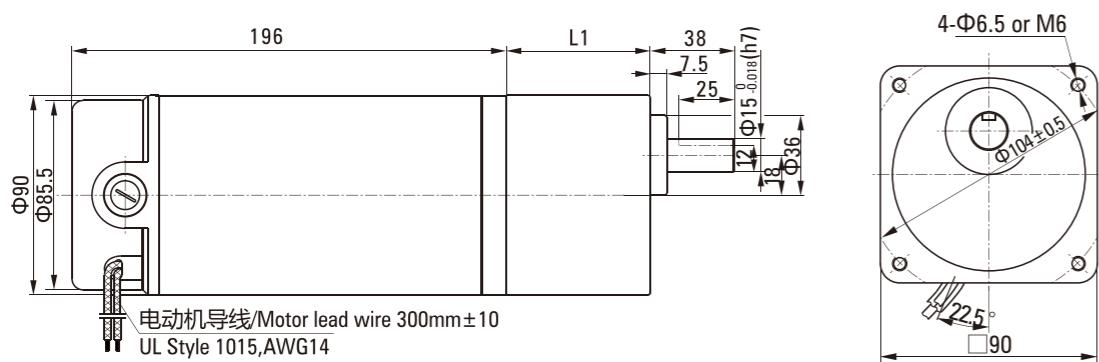
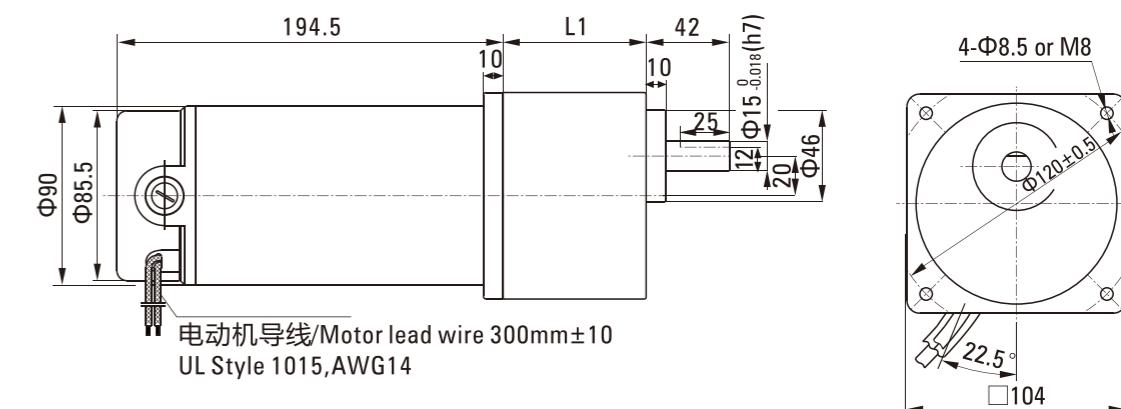
Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 RPM Speed	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
GS55D250-24GU	5GU□KB	1.93	2.32	3.22	3.87	4.83	5.80	5.80	7.25	8.70	10.4	10.4	13.1	15.7	18.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
		19.00	22.70	31.60	37.90	47.40	56.90	56.90	71.10	85.30	102.0	102.0	128.0	154.0	184.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0

■ 减速箱基本性能参数 Gear head main technical parameters

Allowance Torque Unit: Upside (N.m)/ Underside (kgf.cm)

型号 Type	速比 Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200	
	转速 RPM Speed	1000	833	600	500	400	333	240	200	167	120	100	83	60	50	40	33	30	25	20	17	15	
GS6D250-24GU	6GU□KB	1.93	2.32	3.22	3.87	4.83	5.80	7.25	8.70	10.4	13.1	15.7	18.8	26.1	31.3	39.2	40.0	40.0	40.0	40.0	40.0	40.0	
		19.00	22.70	31.60	37.90	47.40	56.90	56.90	71.10	85.30	102.0	128.0	154.0	184.0	256.0	307.0	384.0	400.0	400.0	400.0	400.0	400.0	400.0

■ 外形及安装尺寸图 Outline and installation dimension drawing

■ 外形及安装尺寸图 Outline and installation dimension drawing




■ 电动机型号说明 DESCRIPTION OF MOTOR MODEL

GS 62 DPN 24 60 - 30S

① ② ③ ④ ⑤ ⑥

①	公司名称 Comapny	杭州绿天 Greensky
②	外径尺寸 Motor Outline Dimension	32: 电机外径 Outer Diameter Φ32mm 42: 电机外径 Outer Diameter Φ42mm 52: 电机外径 Outer Diameter Φ52mm 62: 电机外径 Outer Diameter Φ62mm 72: 电机外径 Outer Diameter Φ72mm 82: 电机外径 Outer Diameter Φ82mm 105: 电机外径 Outer Diameter Φ105mm 120: 电机外径 Outer Diameter Φ120mm
③	电机种类 Motor Type	DPN: 有刷直流电动机, 配行星减速箱式 DPN: Brush DC Motor, Matched With Planetary Gearbox
④	电源电压 Voltage	12: 12V 24: 24V
⑤	输出功率 Output Power	40: 40W 60: 60W
⑥	电机转速 Speed	20S: 2000RPM 30S: 3000RPM

■ 减速器型号说明 DESCRIPTION OF REDUCER MODEL

62 ZPN 303

① ② ③

①	外径尺寸 Gear Box Outline Dimension	32: 减速器外径 Gear Box External Diameter Φ32mm 42: 减速器外径 Gear Box External Diameter Φ42mm 52: 减速器外径 Gear Box External Diameter Φ52mm 62: 减速器外径 Gear Box External Diameter Φ62mm 72: 减速器外径 Gear Box External Diameter Φ72mm 82: 减速器外径 Gear Box External Diameter Φ82mm 105: 减速器外径 Gear Box External Diameter Φ105mm 120: 减速器外径 Gear Box External Diameter Φ120mm
②	种类 Gear Type	ZPN: 减速器输入斜齿轮 Gear Box Input Shaft Is Helical Gear
③	减速比 Gear Ratio	(例e.g.) 303: 减速比 Reduction Ratio 303: 1

DC SERIES 32D



■ 电机基本性能参数 Motor main technical parameters

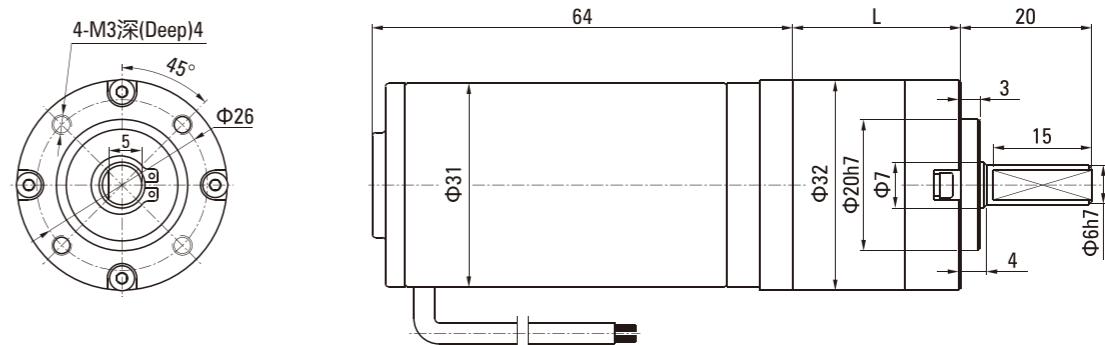
电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS32DPN2410-40S	24	10	5000	0.4	4000	24	0.7	2000
GS32DPN2415-50S	24	15	6000	0.5	5000	29	1.1	2000

■ 减速箱基本性能参数 Gear head main technical parameters

Output speed (rpm) and allowance torque Unit(N.m)

型号 Type	速比 Gear Ratio	3.7	4.29	5.18	6.75	14	19	25	29	35	46	51	68	79	93	100	115	130	150	169	195	236	308	
		转速 RPM Speed	1081	932	772	592	285	210	160	137	114	87	78	59	50	43	40	35	31	26	23	20	17	13
		允许转矩 N.m Allowance Torque	0.080	0.092	0.111	0.145	0.270	0.367	0.483	0.561	0.678	0.890	0.889	1.185	1.378	1.621	1.743	2.004	2.266	2.614	2.945	3.400	4.000	4.000

■ 外形及安装尺寸图 Outline and installation dimension drawing




**DC SERIES
42D**
■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS42DPN2425-30S	24	25	3800	0.6	3000	80	1.6	2000
GS42DPN2430-30S	24	30	4000	0.7	3000	96	2.0	2000


**DC SERIES
52D**
■ 电机基本性能参数 Motor main technical parameters

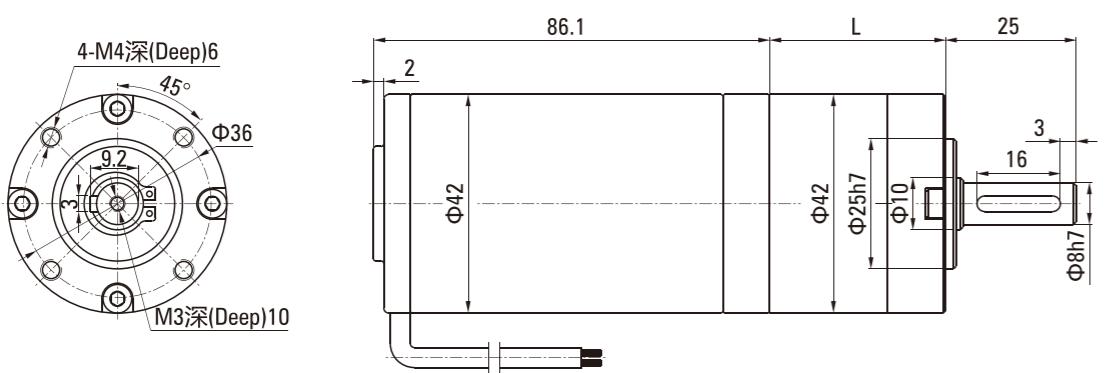
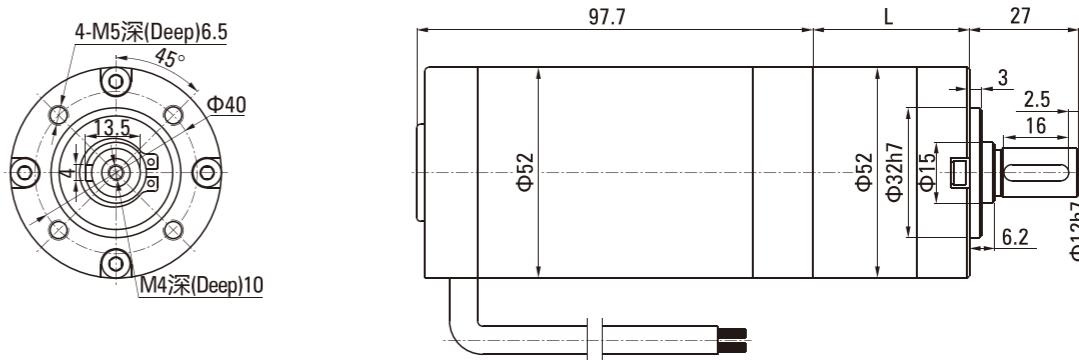
电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS52DPN2440-30S	24	40	3500	1.0	3000	127	2.5	2000
GS52DPN2460-30S	24	60	3600	1.2	3000	191	4.0	2000

■ 减速箱基本性能参数 Gear head main technical parameters
Output speed (rpm) and allowance torque Unit(N.m)

型号 Type	速比 Gear Ratio	3.65	5.36	6.55	8.63	14	19	25	28	34	45	58	67	81	91	103	119	128	146	165	192	232	302	393
		转速 RPM Speed	822	560	458	348	214	158	120	107	88	67	52	45	37	33	29	25	24	21	18	16	13	9.9
42ZPN	允许转矩 N.m Allowance Torque	0.26	0.38	0.47	0.62	0.87	1.20	1.60	1.80	2.20	2.90	3.80	3.90	4.70	5.30	6.00	6.90	7.40	8.50	9.60	11.00	13.00	15.00	15.00
	转速 RPM Speed	822	560	458	348	214	158	120	107	88	67	52	45	37	33	29	25	24	21	18	16	13	9.9	7.6
	允许转矩 N.m Allowance Torque	0.26	0.38	0.47	0.62	0.87	1.20	1.60	1.80	2.20	2.90	3.80	3.90	4.70	5.30	6.00	6.90	7.40	8.50	9.60	11.00	13.00	15.00	15.00

■ 减速箱基本性能参数 Gear head main technical parameters
Output speed (rpm) and allowance torque Unit(N.m)

型号 Type	速比 Gear Ratio	3.65	5.36	6.55	8.63	14	19	25	28	34	45	58	67	81	91	103	119	128	146	165	192	232	302	393
		转速 RPM Speed	822	560	458	348	222	159	122	107	89	67	52	45	37	33	29	25	24	21	18	16	13	9.9
52ZPN	允许转矩 N.m Allowance Torque	0.42	0.61	0.75	0.99	1.44	1.96	2.58	2.89	3.51	4.64	5.98	6.23	7.53	8.46	9.57	11.06	11.90	13.57	15.34	17.85	21.57	25.00	25.00
	转速 RPM Speed	822	560	458	348	222	159	122	107	89	67	52	45	37	33	29	25	24	21	18	16	13	9.9	7.6
	允许转矩 N.m Allowance Torque	0.42	0.61	0.75	0.99	1.44	1.96	2.58	2.89	3.51	4.64	5.98	6.23	7.53	8.46	9.57	11.06	11.90	13.57	15.34	17.85	21.57	25.00	25.00

■ 外形及安装尺寸图 Outline and installation dimension drawing

■ 外形及安装尺寸图 Outline and installation dimension drawing




DC SERIES 62D

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque m.n.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS62DPN2460-30S	24	60	3500	1.0	3000	191	3.5	2000
GS62DPN2490-30S	24	90	3700	1.5	3000	287	5.5	2000



DC SERIES 72D

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque m.n.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS72DPN1260-30S	12	60	3500	2.0	3000	191	7.2	2000
GS72DPN2490-30S	24	90	3400	1.5	3000	287	5.5	2000
GS72DPN24120-30S	24	120	3500	2.0	3000	382	7.2	2000

■ 减速箱基本性能参数 Gear head main technical parameters

Output speed (rpm) and allowance torque Unit(N.m)

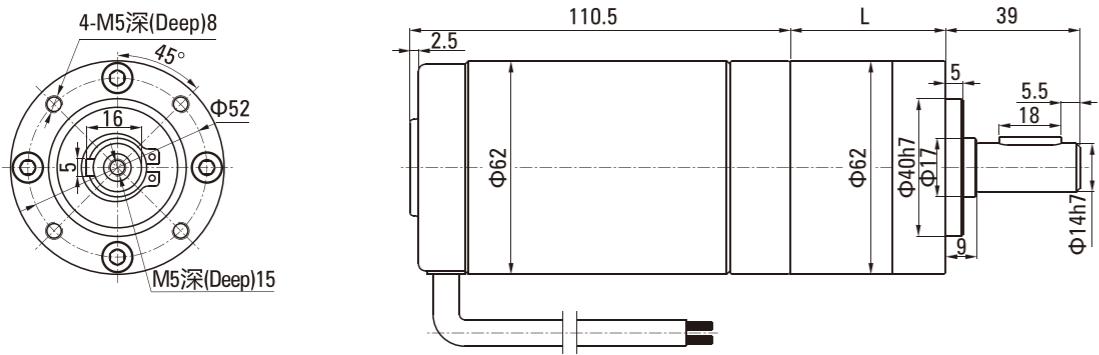
型号 Type	速比 Gear Ratio	3.65	5.36	6.55	8.63	14	19	25	28	34	45	58	67	81	91	103	119	128	146	165	192	232	302	393
	转速 RPM Speed	822	560	458	348	222	159	122	107	89	67	52	45	37	33	29	25	24	21	18	16	13	9.9	7.6
62ZPN	允许转矩 N.m Allowance Torque	0.63	0.92	1.13	1.48	2.17	2.94	3.87	4.33	5.26	6.96	8.97	9.34	11.30	12.69	14.36	16.60	17.85	20.36	23.01	26.77	32.35	42.00	45.00

■ 减速箱基本性能参数 Gear head main technical parameters

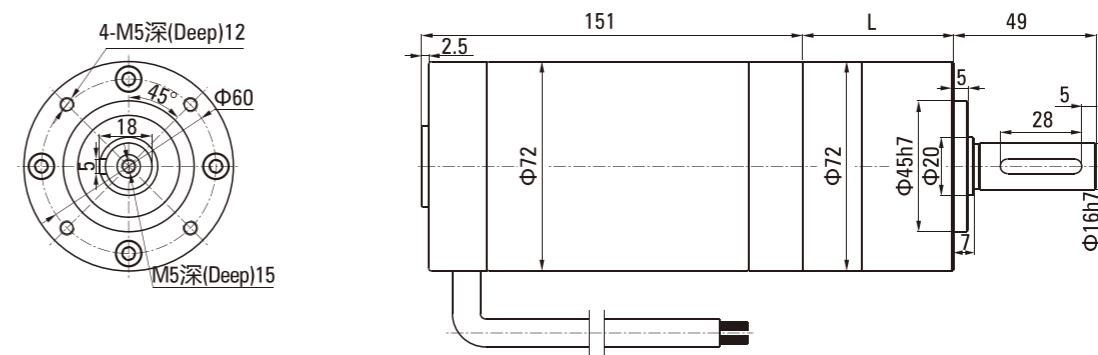
Output speed (rpm) and allowance torque Unit(N.m)

型号 Type	速比 Gear Ratio	3.65	5.36	6.55	8.63	14	19	25	28	34	45	58	67	81	91	103	119	128	146	165	192	232	302	393
	转速 RPM Speed	822	560	458	348	222	159	122	107	89	67	52	45	37	33	29	25	24	21	18	16	13	9.9	7.6
72ZPN	允许转矩 N.m Allowance Torque	0.94	1.38	1.69	2.23	3.25	4.41	5.80	6.50	7.90	10.44	13.46	14.01	16.94	19.03	21.54	24.89	26.77	30.54	34.51	40.16	48.52	63.37	82.19

■ 外形及安装尺寸图 Outline and installation dimension drawing



■ 外形及安装尺寸图 Outline and installation dimension drawing



**DC SERIES
82D**

■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS82DPN1290-30S	12	90	3500	2.5	3000	287	10.5	2000
GS82DPN24120-30S	24	120	3400	2.0	3000	382	7.2	2000
GS82DPN48180-30S	48	180	3400	1.5	3000	573	5.5	2000

**DC SERIES
105D**

■ 电机基本性能参数 Motor main technical parameters

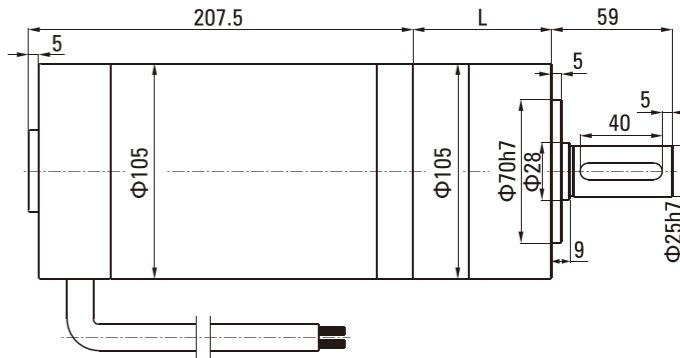
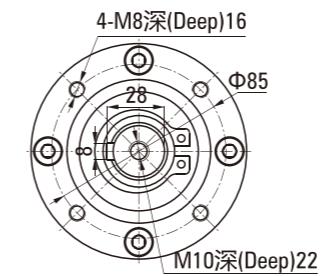
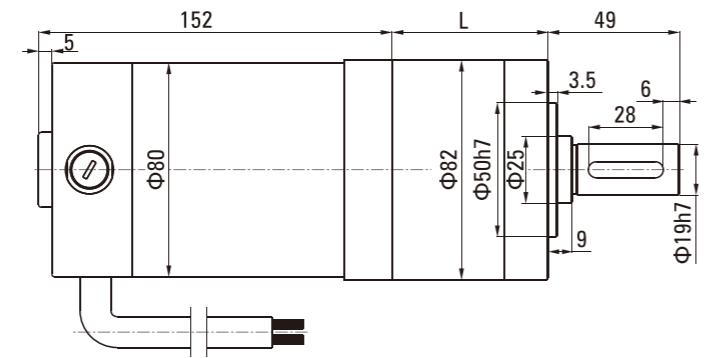
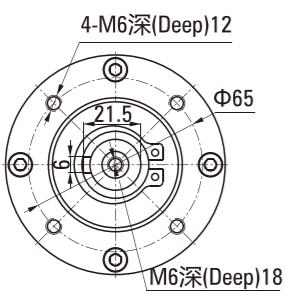
电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS105DPN12200-30S	12	200	3500	3.5	3000	637	24.0	2000
GS105DPN24400-30S	24	400	3500	2.5	3000	1273	24.0	2000
GS105DPN48600-30S	48	600	3500	2.5	3000	1910	17.0	2000

■ 减速箱基本性能参数 Gear head main technical parameters
Output speed (rpm) and allowance torque Unit(N.m)

型号 Type	速比 Gear Ratio	3.65	5.36	6.55	8.63	14	19	25	28	34	45	58	67	81	91	103	119	128	146	165	192	232	302	393
82ZPN	转速 RPM Speed	822	560	458	348	222	159	122	107	89	67	52	45	37	33	29	25	24	21	18	16	13	9.9	7.6
	允许转矩 N.m Allowance Torque	1.25	1.84	2.25	2.97	4.33	5.88	7.74	8.66	10.52	13.92	17.95	18.68	22.59	25.38	28.72	33.18	35.69	40.71	46.01	53.54	64.70	84.00	84.00

■ 减速箱基本性能参数 Gear head main technical parameters
Output speed (rpm) and allowance torque Unit(N.m)

型号 Type	速比 Gear Ratio	3.65	5.36	6.55	8.63	14	19	25	28	34	45	58	67	81	91	103	119	128	146	165	192	232	302	393
105ZPN	转速 RPM Speed	821.9	559.7	458	347.6	222.2	158.7	121.9	106.8	88.5	67.1	51.5	44.6	37	32.9	29.2	25.2	23.5	20.6	18.1	15.6	13	9.9	7.6
	允许转矩 N.m Allowance Torque	4.18	6.14	7.51	9.89	14.44	19.60	25.79	28.88	35.07	46.41	59.82	62.28	75.29	84.58	95.74	110.6	118.9	135.7	153.3	178.4	195.0	195.0	195.0

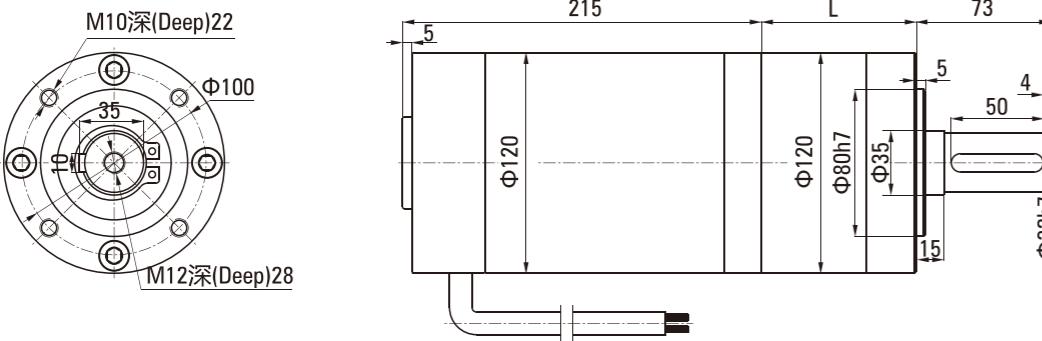
■ 外形及安装尺寸图 Outline and installation dimension drawing



**DC SERIES
120D**
■ 电机基本性能参数 Motor main technical parameters

电机型号 Type	电压 Voltage V	功率 Power W	空载转速 No load Speed RPM	空载电流 No load Current A	负载转速 Load Speed RPM	负载扭矩 Load Torque mN.m	负载电流 Load Current A	电机寿命 Motor Life (Hours)
GS120DPN12300-30S	12	300	3500	4.0	3000	955	35.5	2000
GS120DPN24600-30S	24	600	3500	3.0	3000	1910	35.5	2000
GS120DPN48750-30S	48	750	3700	2.5	3000	2388	21.0	2000

■ 减速箱基本性能参数 Gear head main technical parameters
Output speed (rpm) and allowance torque Unit(N.m)

型号 Type	速比 Gear Ratio	3.65	5.36	6.55	8.63	14	19	25	28	34	45	58	67	81	91	103	119	128	146	165	192	232	302	393
	转速 RPM Speed	822	560	458	348	222	159	122	107	89	67	52	45	37	33	29	25	24	21	18	16	13	9.9	7.6
120ZPN	允许转矩 N.m Allowance Torque	6.27	9.21	11.26	14.83	21.66	29.40	38.68	43.32	52.60	69.62	89.73	93.42	112.9	126.8	143.6	165.9	178.4	203.5	230.0	267.7	300.0	300.0	300.0

■ 外形及安装尺寸图 Outline and installation dimension drawing

**空心杯有刷电机
CORELESS BRUSH MOTOR**


Parameter	Outer dia. Outer dia.	16mm	22mm	30mm	32mm	35mm	40mm
额定电压 Rated voltage(V/DC)	5~24	6~24	36	24~36	10.8~48	24~48	
空载转速 No load speed(rpm)	7300~12000	3800~7800	13000~14600	4400~8850	3025~7700	7340~9200	
额定转速 Rated speed(rpm)	4100~10700	3000~6550	12180~14100	3200~7950	2440~6900	6670~8720	
空载电流 No load current(mA)	4~50	4~35	110~160	50~115	49~130	75~120	
额定电流 Rated current(mA)	80~830	150~500	1630~1900	550~2100	573~1950	2020~5300	
额定转矩 Rated torque(mNm)	0.3~4.9	2.94~14.7	39.2	29.4~78.4	17.15~98	98~186.2	
额定功率 Rated power(W)	0.26~4.72	1.24~6.71	50~57.9	9.9~65.3	4.4~70.2	89.5~135.7	
堵转电流 Stall current(A)	0.3~4.9	0.6~3.3	15.6~45	1.9~20.9	2.8~17.1	26.7~37	
堵转转矩 Stall torque(mNm)	2.7~29.9	18.3~91	623~1150	107.8~770.9	88.7~1145.4	1825~1890	
最大效率 Max efficiency(%)	82	82	81	78	84	81	
端子电阻 Terminal resistance(Ω)	1.5~53.2	3.1~39	0.8~2.3	1.72~12.5	1.4~3.9	0.6~1.8	
转矩常数 Torque constant(mNm/A)	4.2~34.3	9.6~49.6	25.6~39.9	34.9~56.7	31.4~78.7	49.3~70.8	
速度常数 Speed constant(rpm/V)	250~1894	197~633	361~406	187~271	155~321	161~306	
重量 Weight(g)	18~45	45~70	200	200~225	222~315	350	
环境温度 Ambient temperature range	-20~55°C	-20~55°C	-20~55°C	-20~55°C	-20~55°C	-20~55°C	
最大允许绕组温度 Max permissible winding temperature	85°C	85°C	125°C	125°C	125°C	125°C	
最大允许速度 Max permissible speed	13000rpm	11000rpm	15000rpm	12000rpm	8000rpm	11000rpm	
最大轴向载荷 Max axial load	0.6~0.8N	1~1.2N	3.0N	5.0N	5.6N	6.5N	
最大径向载荷 Max radial load	1~1.5N	2.1~3.2N	15N	25N	28N	35N	
极对数 Number of pole pair	1	1	1	1	1	1	
换向器数量 Number of commutator segments	5	5	13	13	13	13	

■ 应用 Application

纹身机 Tattoo machine 牙医设备 Dental equipment 电动窗帘 Electric curtain 水泵 Pump
 打磨机 Grinder 手持工具 Hand tools 医疗设备 Medical apparatus 高尔夫球杆推车 Golfcart
 切肉机 Meat slicer 机器人 Robot 舞台灯光 Stage lighting



空心杯无刷电机 CORELESS BRUSHLESS MOTOR

Outer dia. Parameter	16mm	18mm	20mm	22mm	24mm	28mm	30mm	36mm
额定电压 Rated voltage(V/DC)	6~24	30	30~36	12	30~36	6~30	36	24~36
空载转速 No load speed(rpm)	12000~22000	16000	15000~50000	15000	18000~50000	4100~16000	16000	7000~17500
额定转速 Rated speed(rpm)	9600~17600	13000	13050~47000	12000	15800~47000	3300~14500	14000	5400~14800
空载电流 No load current(mA)	100~200	120	150~200	180	160~320	150~350	400	230~320
额定电流 Rated current(mA)	460~1200	700	1100~1800	1000	1500~2000	450~3300	2600	1500~3200
额定转矩 Rated torque(mNm)	3~5.5	8	10~15	6	12~15	12~40	50	40~55
额定功率 Rated power(W)	3.02~9.21	10.9	20.5~49.2	7.5	24.8~59.1	7.1~52.4	73.3	22.6~82.2
最大效率 Max efficiency(%)	68	62	75	70	80	80	79	80
Resistance phase to phase(OHM)	1.8~13.2	12	1.33~4.9	2.8	0.9~2.4	0.7~8.9	1.3	1.23~3.54
转矩常数 Torque constant(mNm/A)	4.6~16	17.9	6.8~18	7.6	6.8~15.8	12.7~56	17.9	19.6~32.7
速度常数 Speed constant(rpm/V)	583~2000	533	500~1388	1250	600~1388	170~750	533	291~486
重量 Weight(g)	40	60	80~92	85	105~125	145~185	210	315
环境温度 Ambient temperature range	-20~55°C	-20~55°C	-20~55°C	-20~55°C	-20~55°C	-20~55°C	-20~55°C	-20~55°C
最大允许绕组温度 Max permissible winding temperature	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C
最大允许速度 Max permissible speed	30000rpm	30000rpm	60000rpm	30000rpm	60000rpm	25000rpm	25000rpm	25000rpm
最大轴向载荷 Max axial load	2.0N	2.0N	2.0N	2.0N	2.0N	3.0N	3.0N	4.0N
最大径向载荷 Max radial load	8.0N	8.0N	10N	8.0N	10N	12N	12N	15N
极对数 Number of pole pair	1	1	1	1	1	1	1	1
相数 Number of phases	3	3	3	3	3	3	3	3

应用 Application

电动窗帘 Electric curtain 打磨机 Grinder 百叶窗 Blinds 气泵 Gas pump
 电钻 Electric screw driver 电动工具 Powertools by hand

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交流减速电机



DC GEAR MOTOR
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