



顺力电机
SHUNLI



深圳市顺力电机有限公司 Shenzhen Shunli Motor Co., Ltd

自动锁体电机 • 离合器电机 • 全自动(背包)锁电机
Automatic Locking Motor • Clutch Motor • Backpack Lock Motor

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公司简介

COMPANY PROFILE



深圳市顺力电机有限公司成立于2012年，是一家专业从事各种微型直流电机，齿轮，减速电机，传动机构模组，专用变速箱电机的研发设计、生产和销售的高科技民营企业。总面积4000平方米，总员工150多人，拥有模具部，注塑部，机加工部及自动化装配生产线6条，包括研发团队15人，品质团队11人，销售团队8人，生产团队120人，年产各类齿轮传动机构模块1200万台，在齿轮减速电机领域积累了十多年的丰富经验和成功案例，专注为客户提供整体传动机构解决方案。

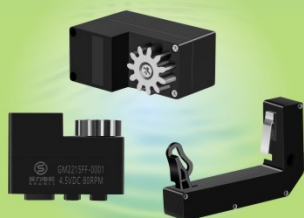
特点：专业程度高、反应速度快、成功率高等特点，近7年聚焦智能家居领域研发设计的丰富经验，尤其是近年来为国内智能锁行业头部企业全新开发了几十款匹配度较高的订制化产品。

深圳市顺力电机有限公司坚持科技创新，走专注，专业，专心化发展思路，在新产品的应用中广泛采用大量新技术、新材料、新工艺以满足客户对电机使用的不同需求。

Shenzhen Shunli Motor CO., Ltd was established in 2012, is a high-tech private enterprise specializing in the R&D, design, production and sales of various miniature DC motors, gears, geared motors, transmission mechanism modules and special gearbox motors. With a total area of 4,000 square meters, more than 150 employees, a mold department, an injection department, a machining department and 6 automatic assembly lines, including a R&D team of 15 people, a quality team of 11 people, a sales team of 8 people and a production team of 120 people, and an annual production capacity of 12 million units of various gear transmission mechanism modules, we have accumulated more than 10 years of rich experience and successful cases in the field of gear motors and focus on providing customers with We have accumulated more than 10 years of experience and successful cases in the field of gear motors, and focus on providing customers with total transmission mechanism solutions.

Features: high degree of professionalism, fast response time, high success rate, nearly 7 years of focus on the smart home field R & D design of rich experience, especially in recent years for the domestic smart lock industry head enterprises new development of dozens of high matching customization products.

Shenzhen Shunli Motor CO.,Ltd. adhere to the innovation of science and technology, take the focus, professional, concentrated development ideas, in the application of new products widely used in a large number of new technologies, new materials, new processes to meet the different needs of customers on the use of motors.



FOCUS
专注
微型减速电机十三年

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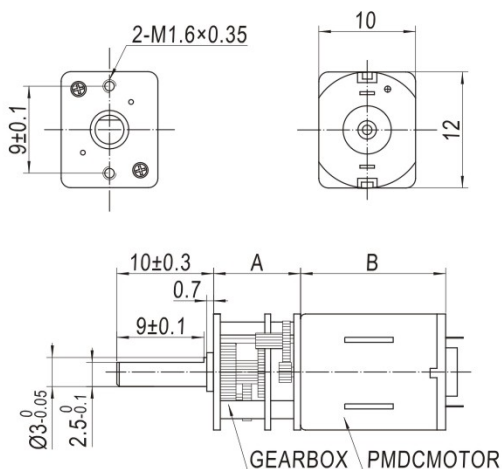
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Automatic Locking Motor

Model: GM12A



齿轮箱技术参数 Gearbox Technical Date

级数 Number of stages	2	4	5	7
齿轮箱长度 Gearbox Length "L" (mm)	9.0	9.0	9.0	12.1
减速比 Ratio	3K / 5K / 10K	17K/20K/30K/36K/50K/63K/100K	110K/150K/210K/250K/298K/380K	372K/625K/1000K
最大额定可承载扭力 Max. Rated Torque	200 gf.cm	600 gf.cm	1000 gf.cm	1500 gf.cm
最大破坏扭力 Max. Gear Broken Torque	600 gf.cm	1500 gf.cm	2800 gf.cm	3500 gf.cm
效率 Gearbox Efficiency	80%~90%	65%~70%	55%~60%	45%~50%

齿轮箱电机技术参数 Gearmotor Technical Date

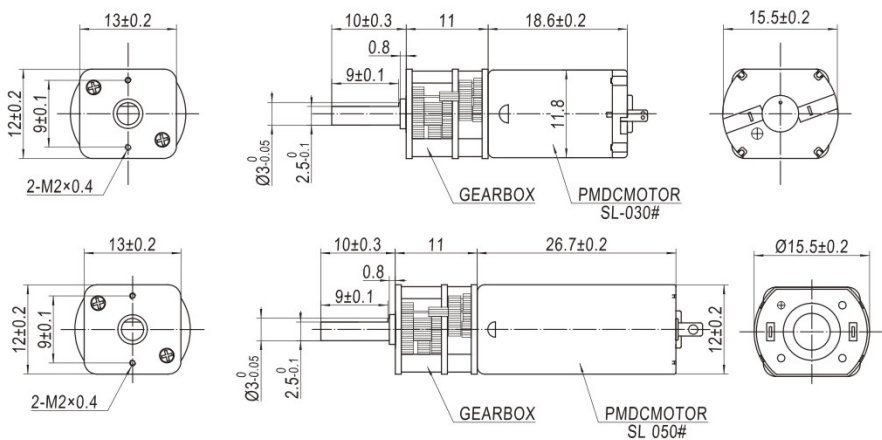
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
			转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
GM12AMN10-298K	1 : 298	4.6 VDC	70	≤ 80	55	≤ 285	5.5 / 550	≤ 700	210 / 2100
GM12AMM20-150K	1 : 150	4.5 VDC	92	≤ 55	80	≤ 140	2.8 / 280	≤ 700	120 / 1200
GM12AMM30-10K	1 : 10	6 VDC	2500	≤ 60	2200	≤ 195	4.0 / 40	≤ 400	26 / 260

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	电机长度 Length "L" (mm)	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
			转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-N10	04622000	12.5	22000	≤ 55	17000	≤ 235	0.25 / 2.5	≤ 675	1.1 / 11
SL-N20	04514000	15	14000	≤ 40	12000	≤ 130	0.25 / 2.5	≤ 650	1.5 / 15
SL-N30	1225400	20	25400	≤ 50	22600	≤ 170	0.5 / 5	≤ 380	4.2 / 42

Automatic Locking Motor

Model : GM13A



齿轮箱技术参数 Gearbox Technical Date

级数Number of stages	2	3	4	5
减速比 Ratio	6K/9K	16K/20K/26K/30K	35K/52K/67K/85/K/100K	118K/150K/170K/215K/250K /297K/330K/360K
最大额定扭力 Max. Rated Torque	0.2 Kgf.cm	0.3~0.4 Kgf.cm	0.5~0.6 Kgf.cm	0.7~0.8 Kgf.cm
最大破坏扭力 Max. Gear Broke Torque	0.6 Kgf.cm	0.9~1.2 Kgf.cm	1.5~1.8 Kgf.cm	2.0~2.4 Kgf.cm
效率 Gearbox Efficiency	70%~80%	60%~70%	50%~60%	40%~50%

齿轮箱电机技术参数 Gearmotor Technical Date

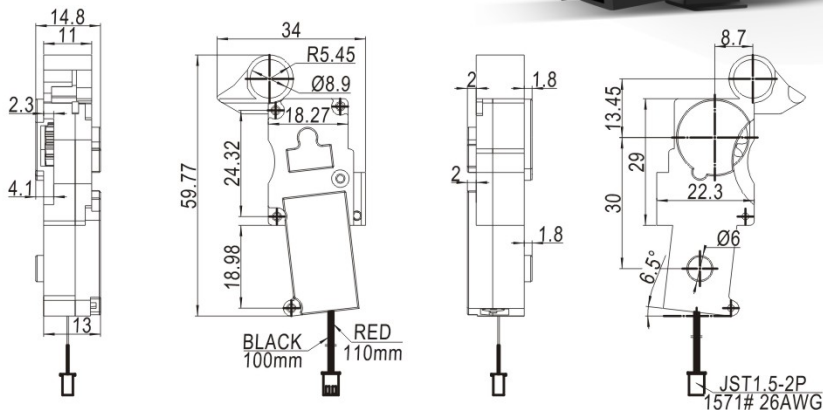
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
			RPM	mA	RPM	mA	N.m / Kgf.cm	mA	N.m / Kgf.cm
GM13AM030-100K	1 : 100	3.7 VDC	80	≤ 120	60	≤ 400	0.025 / 0.25	≤ 700	0.1 / 1.0
GM13AM050-250K	1 : 250	3.7 VDC	56	≤ 200	46	≤ 650	0.12 / 1.2	≤ 3000	0.48 / 4.8

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model		电机长度 Length "L" (mm)	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
				转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
				RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-030	03710000	18.6	3.7 VDC	10000	≤ 55	7350	≤ 220	0.5 / 5	≤ 650	1.8 / 18
SL-050	03715000	26.7	3.7 VDC	15000	≤ 145	12000	≤ 600	1 / 10	≤ 2900	5 / 50

Automatic Locking Motor

Model: GM824F



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；

The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。

We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

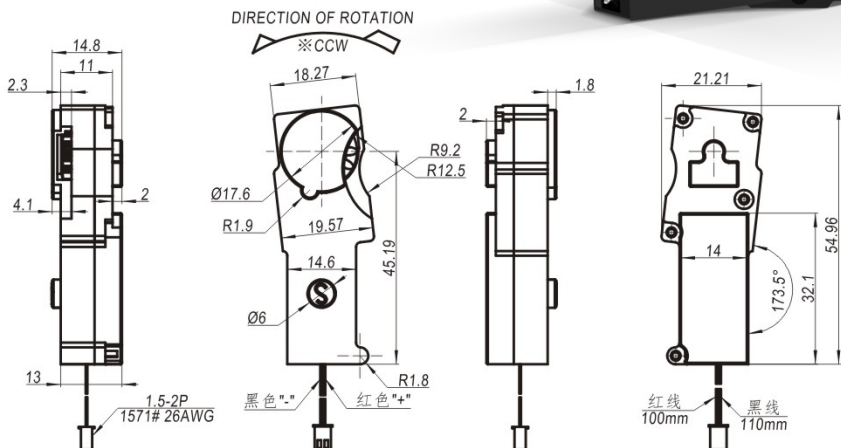
240K										效率Gearbox Efficiency		25%~45%	
减速比Ratio		最大额定可承载扭力Max. Rated Torque				0.5~1.5 Kg.f.cm		最大破坏扭力Max. Gear Broken Torque				2~3 Kg.f.cm	
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated				堵转状态 Stall				
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque				
			RPM	mA	RPM	mA	mNm / gf.cm	mA	N.m / Kg.f.cm				
GM824FMN20	1 : 240	4.5 VDC	58	≤ 65	50	≤ 130	24 / 240	≤ 680	0.13 / 1.3				

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N20-09175	4.5 VDC	14000	≤ 40	12000	≤ 130	0.25 / 2.5	≤ 680	1.5 / 15

Automatic Locking Motor

Model : GM825F



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；

The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。

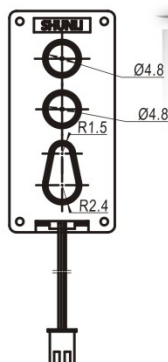
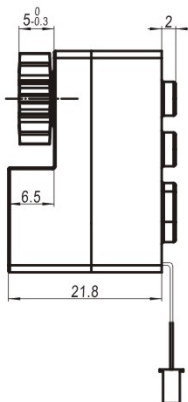
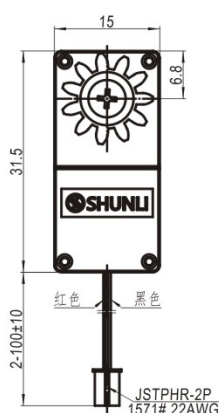
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date									
减速比Ratio	240K					效率Gearbox Efficiency			
最大额定可承载扭力Max. Rated Torque	1~2 Kgf.cm		最大破坏扭力Max. Gear Broken Torque			2.5~3.5 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
			转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque N.m / Kgf.cm
GM825FMN30	1 : 240	4.5 VDC	55	≤ 65	48	≤ 180	40 / 400	≤ 1350	0.16 / 1.6

单体直流电机技术参数 PMDC MOTOR Technical Date								
单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m /	电流Current mA	扭力Torque mN.m /
SL-N30-12115	4.5 VDC	13500	≤ 45	11700	≤ 190	0.4 / 4.0	≤ 1150	0.25 / 25

Automatic Locking Motor

Model: GM2215F



齿轮参数	
齿顶圆Da	Ø13.0
压力角α	20°
模数M	1.0
齿数Z	11
精度等级	7级
材质	铁基粉末冶金



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

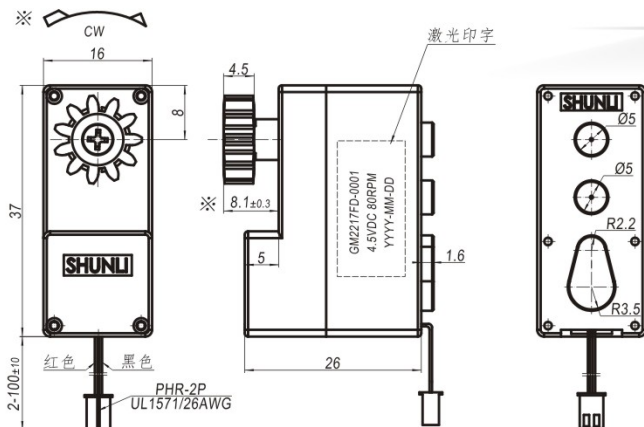
- 可以选配离合版本，即输出齿轮可控性离合；
can be equipped with an optional clutch version, that is, output gear controllable clutch;
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date									
减速比Ratio		241K					效率Gearbox Efficiency		
最大额定可承载扭矩Max. Rated Torque		1.5~2.5 Kgf.cm					最大破坏扭矩Max. Gear Broken Torque		
							4~5 Kgf.cm		
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
			转速Speed	电流Current	转速Speed	电流Current	扭矩Torque	电流Current	扭矩Torque
			RPM	mA	RPM	mA	mN.m / gf.cm	mA	N.m / Kgf.cm
GM2215FMN20-09180	1 : 241	4.5	62	≤ 80	55	≤ 160	25 / 250	≤ 550	0.14 / 1.4
GM2215FMN20-11125			80	≤ 120	62	≤ 260	40 / 400	≤ 1300	0.22 / 2.2

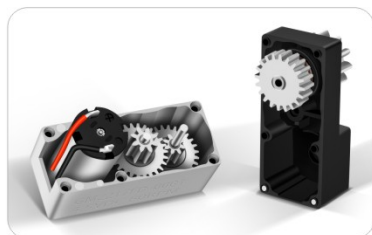
单体直流电机技术参数 PMDC MOTOR Technical Date									
单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall		
		转速Speed	电流Current	转速Speed	电流Current	扭矩Torque	电流Current	扭矩Torque	
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm	
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550	1.25 / 12.5	
SL-N20-11125	4.5 VDC	20000	≤ 80	15800	≤ 240	0.25 / 2.5	≤ 1300	2.5 / 25	

Automatic Locking Motor

Model: GM2217F



齿轮参数	
齿顶圆Da	Ø13.0
压力角α	20°
模数M	1.0
齿数Z	11
材质	铁基粉末冶金



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。

We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

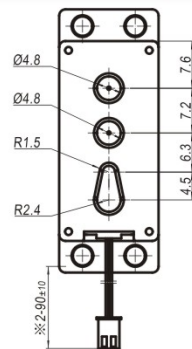
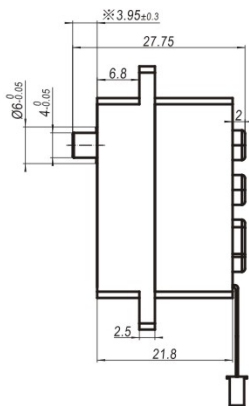
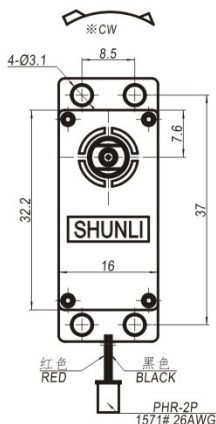
减速比Ratio		228K						效率Gearbox Efficiency		45%~60%	
最大额定可承载扭力Max. Rated Torque		3~5 Kgf.cm		最大破坏扭力Max. Gear Breaked Torque				8~10 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated				堵转状态 Stall		
			转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque N.m / Kgf.cm		
GM2217FMK1220	1 : 228	4.5	80	≤ 100	72	≤ 400	60 / 600	≤ 3000	0.45 / 4.5		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-K1220	4.5 VDC	18500	≤ 60	16250	≤ 380	0.75 / 7.5	≤ 3000	0.58 / 58

Automatic Locking Motor

Model: GM2218F



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Data

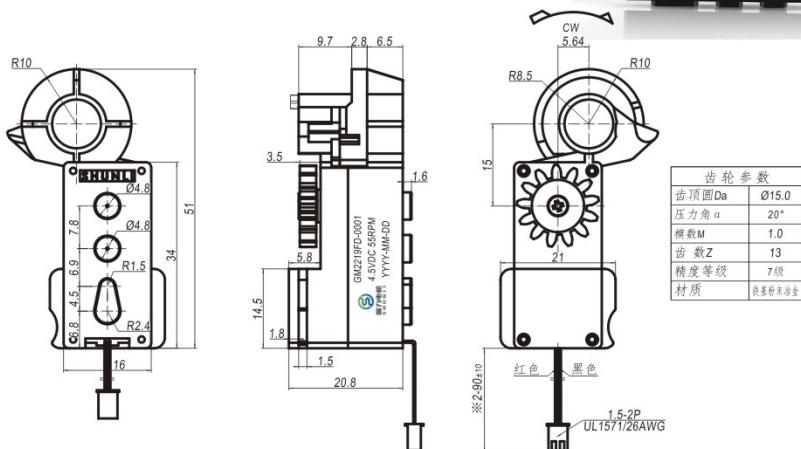
减速比Ratio		241K				效率Gearbox Efficiency			
最大额定可承载扭力Max. Rated Torque		1.5~2.5 Kgf.cm		最大破坏扭力Max. Gear Broken Torque		4~5 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall		
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
			RPM	mA	RPM	mA	mN.m / gf.cm	mA	N.m / Kgf.cm
GM2215FMN20-09165	1 : 241	4.5	55	≤ 100	48	≤ 300	34 / 350	≤ 800	0.16 / 1.6
GM2218FMN20-09180			62	≤ 80	55	≤ 160	25 / 250	≤ 550	0.14 / 1.4

单体直流电机技术参数 PMDC MOTOR Technical Data

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall		
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N20-06165	4.5 VDC	13500	≤ 65	12500	≤ 180	0.25 / 2.5	≤ 760	1.75 / 17.5
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550	1.25 / 12.5

Automatic Locking Motor

Model : GM2219F



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

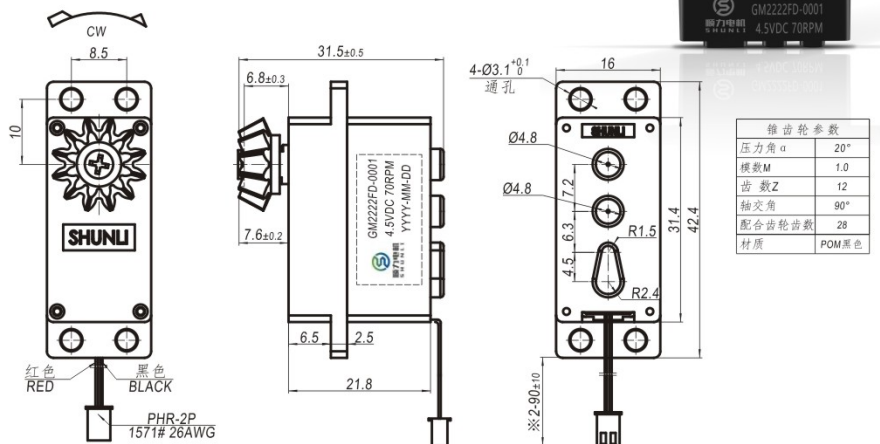
减速比Ratio		2~3 Kgf.cm					效率Gearbox Efficiency		
最大额定可承载扭力Max. Rated Torque		2~3 Kgf.cm		最大破坏扭力Max. Gear Breaked Torque			5~6 Kgf.cm		
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall		
			转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque N.m / Kgf.cm
GM2219FMN20-09180	1 : 267	4.5	55	≤ 80	44	≤ 180	40 / 400	≤ 550	0.18 / 1.8

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall		
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550	1.25 / 12.5

Automatic Locking Motor

Model: GM2222F



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

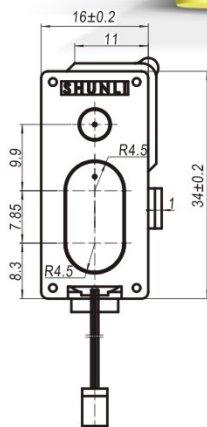
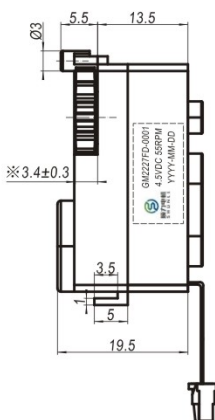
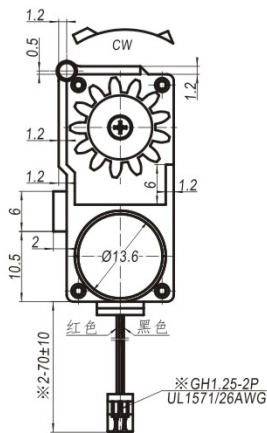
齿轮箱电机技术参数 Gearmotor Technical Data

减速比Ratio		241K						效率Gearbox Efficiency		45%~60%	
最大额定可承载扭力Max. Rated Torque		2.5~3.5 Kg.f.cm		最大破坏扭力Max. Gear Broken Torque				5~6 Kg.f.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated				堵转状态 Stall		
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque		
			RPM	mA	RPM	mA	mN.m / gf.cm	mA	N.m / Kg.f.cm		
GM2222FMN20-08205	1 : 241	4.5	58	≤ 80	42	≤ 180	25 / 250	≤ 450	0.08 / 0.8		
GM2222FMN20-09170			70	≤ 80	56	≤ 250	30 / 300	≤ 630	0.12 / 1.2		

单体直流电机技术参数 PMDC MOTOR Technical Data

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速 Speed	电流 Current	转速 Speed	电流 Current	扭力 Torque	扭力 Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mN.m / gf.cm
SL-N20-08205	4.5 VDC	13500	≤ 40	10400	≤ 160	0.25 / 2.5	≤ 430
SL-N20-09170	4.5 VDC	16500	≤ 55	13500	≤ 170	0.25 / 2.5	≤ 625

Model: GM2227F



齿轮参数	
齿顶圆Da	Ø15.0
压力角 α	20°
模数M	1.0
齿数Z	13
材质	铁基粉末冶金



- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

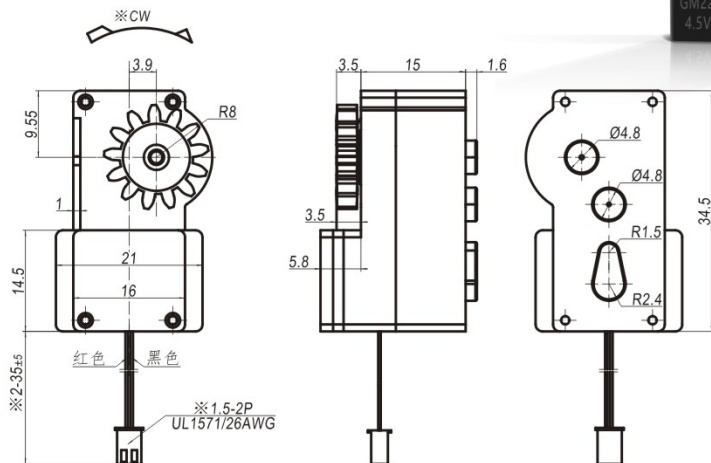
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配;
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速机电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date											
减速比Ratio		267K						效率Gearbox Efficiency		45%~60%	
最大额定可承载扭力Max. Rated Torque			2~3 Kgf.cm			最大破坏扭力Max. Gear Broken Torque			5~6 Kgf.cm		
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated				堵转状态 Stall		
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque		
			RPM	mA	RPM	mA	mN.m / gf.cm	mA	N.m / Kgf.cm		
GM2227FMN20-09180	1 : 267	4.5	55	≤ 80	44	≤ 180	40 / 400	≤ 550	0.18 / 1.8		

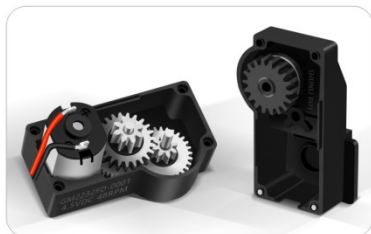
单体直流电机技术参数 PMDC MOTOR Technical Data								
单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550	1.25 / 12.5

Automatic Locking Motor

Model: GM2232F



齿 轮 参 数	
齿顶圆Da	Ø15.0
压力角 α	20°
模数M	1.0
齿 数Z	13
材质	铁基粉末冶金



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配;
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Data

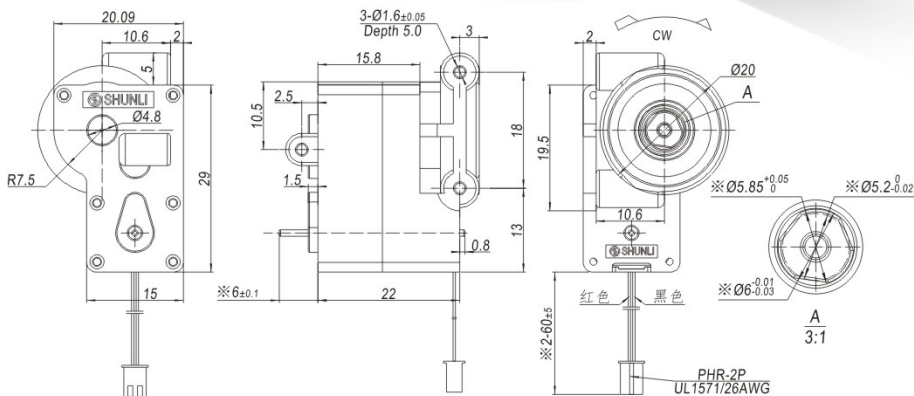
减速比Ratio		267K						效率Gearbox Efficiency		45%~60%	
最大额定可承载扭矩Max. Rated Torque		2~3 Kgf.cm			最大破坏扭矩Max. Gear Broken Torque			5~6 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall				
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque		
			RPM	mA	RPM	mA	mN.m / gf.cm	mA	N.m / Kgf.cm		
GM2232FMN20-09180	1 : 267	4.5	55	≤ 80	44	≤ 180	40 / 400	≤ 550	0.18 / 1.8		

单体直流电机技术参数 PMDC MOTOR Technical Data

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550	1.25 / 12.5

Automatic Locking Motor

Model: GM2238F



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配;
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速机电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Data

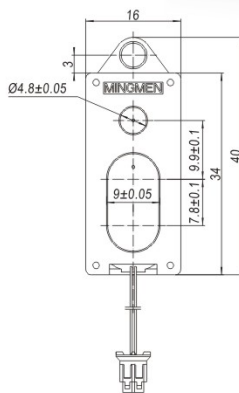
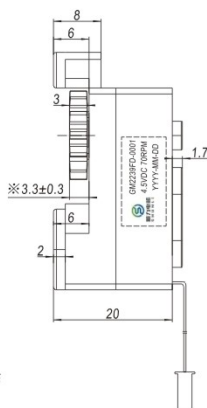
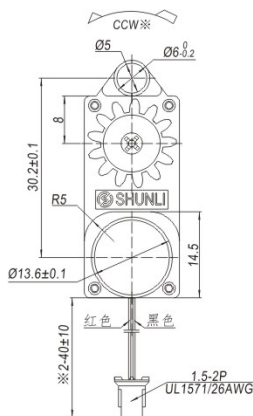
减速比Ratio		267K						效率Gearbox Efficiency		45%~60%	
最大额定可承载扭矩Max. Rated Torque		2~3 Kgf.cm		最大破坏扭矩Max. Gear Broken Torque				5~6 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall				
			转速Speed	电流Current	转速Speed	电流Current	扭矩Torque	电流Current	扭矩Torque		
			RPM	mA	RPM	mA	mN.m / gf.cm	mA	N.m / Kgf.cm		
GM2238FMN20-09180	1 : 267	4.5	55	≤ 80	44	≤ 180	40 / 400	≤ 550	0.18 / 1.8		

单体直流电机技术参数 PMDC MOTOR Technical Data

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550	1.25 / 12.5

Automatic Locking Motor

Model: GM2239F



齿轮参数	
齿顶圆Da	Ø15.0
压力角a	20°
模数M	1.0
齿数Z	13
材质	铁基粉末冶金



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

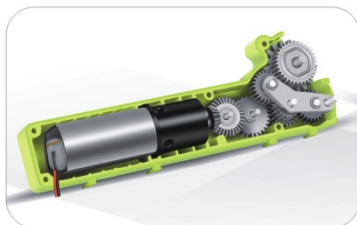
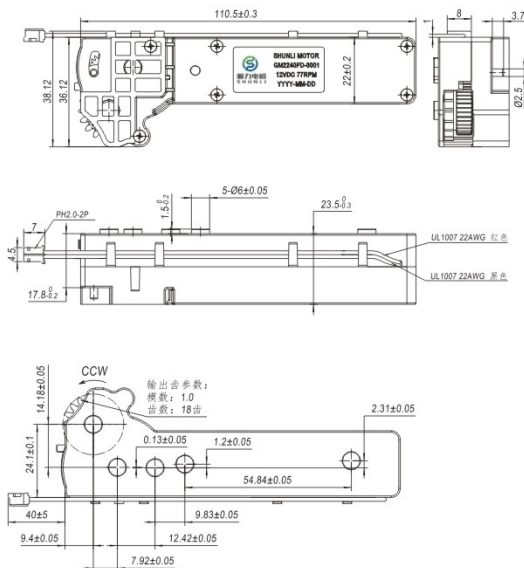
减速比Ratio		267K						效率Gearbox Efficiency		45%~60%	
最大额定可承载扭力Max. Rated Torque		2~3 Kgf.cm			最大破坏扭力Max. Gear Broken Torque			5~6 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall				
			转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque N.m / Kgf.cm		
GM2239FMN20-09180	1 : 267	4.5	55	≤ 80	44	≤ 180	40 / 400	≤ 550	0.18 / 1.8		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	扭力Torque mN.m / gf.cm
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550 1.25 / 12.5

Automatic Locking Motor

Model : GM2240F



智能锁类电机优点

Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；

The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。

We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Data

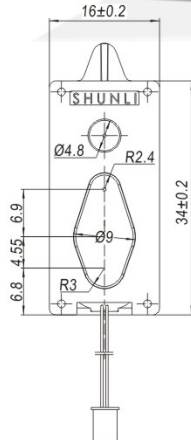
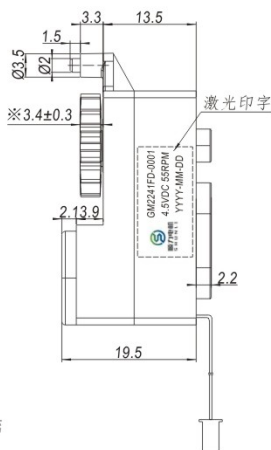
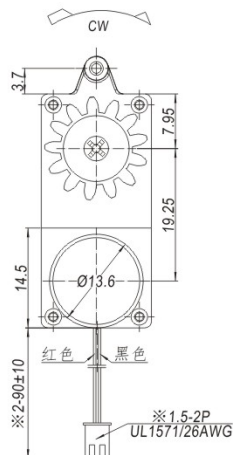
减速比Ratio		170K					效率Gearbox Efficiency		40%~55%	
最大额定可承载扭力Max. Rated Torque		6~10 Kgf.cm		最大破坏扭力Max. Gear Broken Torque			20~25 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall		
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque	
			RPM	mA	RPM	mA	N.m / Kgf.cm	mA	N.m / Kgf.cm	
GM2240F180-18140	1 : 267	12	77	≤ 160	60	≤ 700	0.4 / 4	≤ 3850	1.6 / 16	

单体直流电机技术参数 PMDC MOTOR Technical Data

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mN.m / gf.cm
SL-180-18140	12 VDC	13500	≤ 120	11500	≤ 600	0.32 / 32	≤ 3850
							22 / 220

Automatic Locking Motor

Model: GM2241F



齿轮参数	
齿顶圆Da	Ø15.0
压力角α	20°
模数M	1.0
齿数Z	13※
材质	压铸铝无油金



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost.
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Data

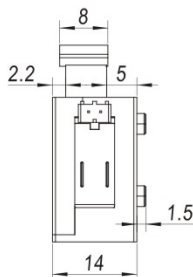
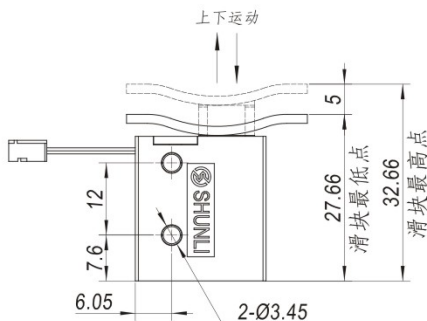
减速比Ratio		267K				效率Gearbox Efficiency		45%~60%	
最大额定可承载扭力Max. Rated Torque		2~3 Kgf.cm		最大破坏扭力Max. Gear Broken Torque				5~6 Kgf.cm	
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall		
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	
			RPM	mA	RPM	mA	mN.m / gf.cm	mA	N.m / Kgf.cm
GM2241FMN20-09180	1 : 267	4.5	55	≤ 80	44	≤ 180	40 / 400	≤ 550	0.18 / 1.8

单体直流电机技术参数 PMDC MOTOR Technical Data

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current
		RPM	mA	RPM	mA	mN.m / gf.cm	mA
SL-N20-09180	4.5 VDC	15000	≤ 50	12000	≤ 180	0.25 / 2.5	≤ 550
							1.25 / 12.5

Clutch Motor

Model : LH2124



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

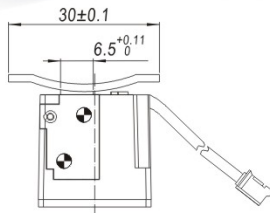
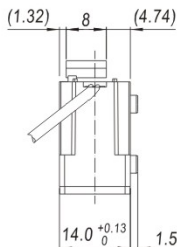
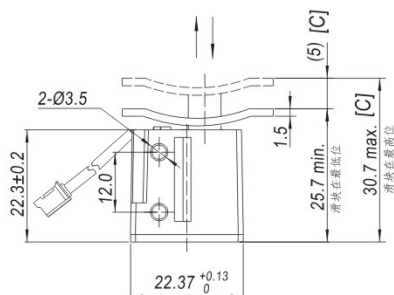
减速比 Ratio	1:2.2	效率 Gearbox Efficiency	85%~95%	工作寿命 Working life	≥ 20 万次
滑块推动行程 Slider push stroke	5.0 mm	滑块推力 Slider thrust	≥ 50gf.cm		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-N20-08330	4.5 VDC	7500	≤ 25	5800	≤ 80	0.25 / 2.5	≤ 300	0.8 / 8.0
SL-N20-08255		10500	≤ 35	8000	≤ 100	0.25 / 2.5	≤ 370	0.95 / 9.5

Clutch Motor

Model: LHMN20



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

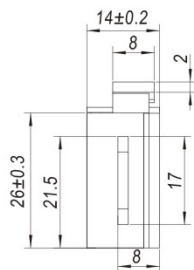
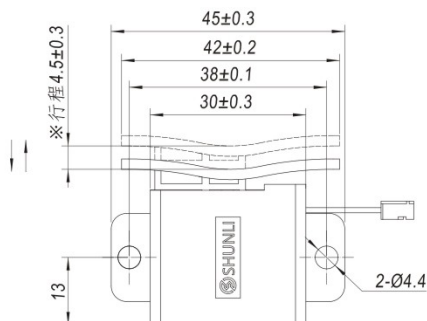
减速比Ratio	1:2.2	效率Gearbox Efficiency	85%~95%	工作寿命Working life	≥ 30 万次
滑块推动行程Slider push stroke	5mm	滑块推力Slider thrust	≥ 30gf.cm		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-N20-08255	4.5 VDC	10500	≤ 35	8000	≤ 100	0.25 / 2.5	≤ 370	0.95 / 9.5

Clutch Motor

Model : LH3026



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；

The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。

We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

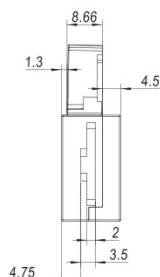
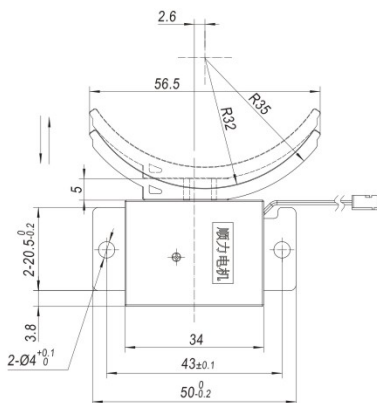
减速比 Ratio	1:2.2	效率 Gearbox Efficiency	85%~95%	工作寿命 Working life	≥ 20 万次
滑块推动行程 Slider push stroke	4.5 mm	滑块推力 Slider thrust		≥ 50gf.cm	

单电压直流电机技术参数 PMDC MOTOR Technical Date

单电压直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速 Speed	电流 Current	转速 Speed	电流 Current	扭力 Torque	电流 Current	扭力 Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N20-08330	4.5 VDC	7500	≤ 25	5800	≤ 80	0.25 / 2.5	≤ 300	0.8 / 8.0
SL-N20-08255		10500	≤ 35	8000	≤ 100	0.25 / 2.5	≤ 370	0.95 / 9.5

Clutch Motor

Model: LH3427



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

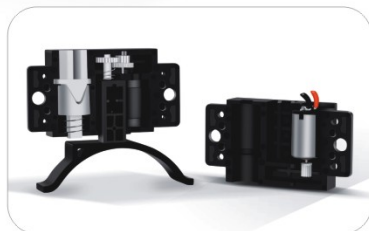
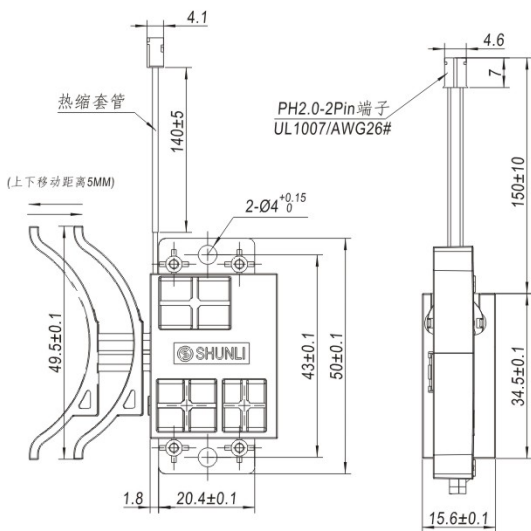
减速比 Ratio	1:2.2	效率 Gearbox Efficiency	85%~92%	工作寿命 Working life	≥ 20 万次
滑块推动行程 Slider push stroke	5 mm	滑块推力 Slider thrust	≥ 50gf.cm		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-N20-08330	4.5 VDC	7500	≤ 25	5800	≤ 80	0.25 / 2.5	≤ 300	0.8 / 8.0
SL-N20-08255		10500	≤ 35	8000	≤ 100	0.25 / 2.5	≤ 370	0.95 / 9.5

Clutch Motor

Model : LH3527



- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

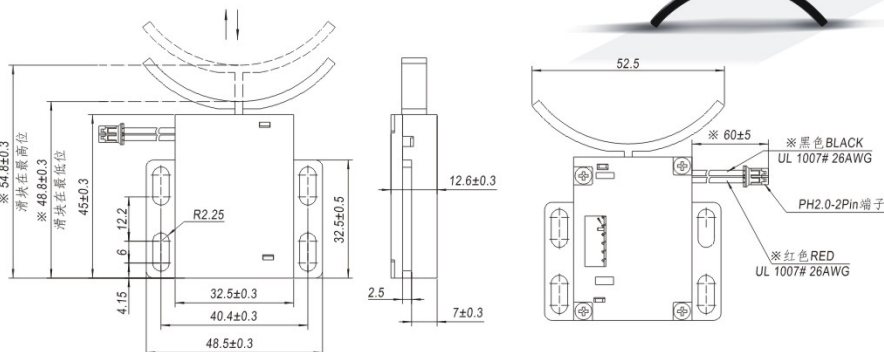
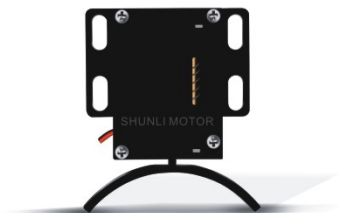
减速比Ratio	1:4.36	效率Gearbox Efficiency	80%~90%	工作寿命Working life	≥ 30 万次
滑块推动行程Slider push stroke	5 mm	滑块推力Slider thrust	≥ 30gf.cm		

单直流电机技术参数 PMDC MOTOR Technical Date

单直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-N20-08230	5 VDC	12000	≤ 45	9700	≤ 120	0.25 / 2.5	≤ 600	1.0 / 10

Clutch Motor

Model: LHMN30



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.

- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

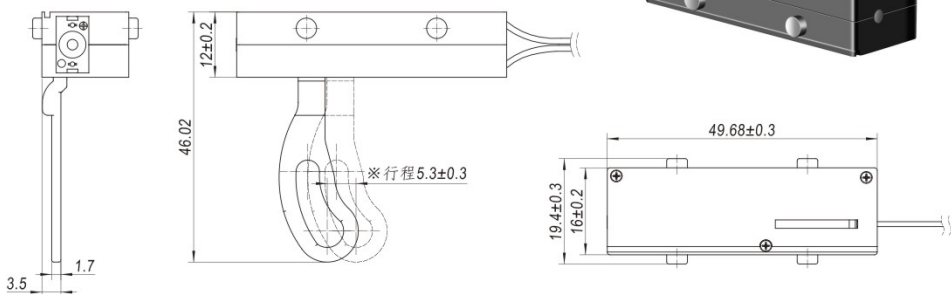
减速比Ratio	1:3.24	效率Gearbox Efficiency	80%~90%	工作寿命Working life	≥ 30 万次
滑块推动行程Slider push stroke	6 mm	滑块推力Slider thrust		≥ 30gf.cm	

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mA	mN.m / gf.cm
SL-N30-07255	3.7 VDC	4800	≤ 20	4100	≤ 35	0.15 / 1.5	≤ 150	0.8 / 8

Backpack Lock Motor

Model: LH5016



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 自动锁体电机可以选配不同尺寸和形状的输出端槽口、橡胶垫等；
Automatic lock motor can be equipped with output outlets and rubber pads of different sizes and shapes.
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

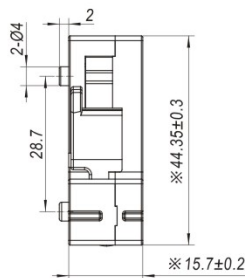
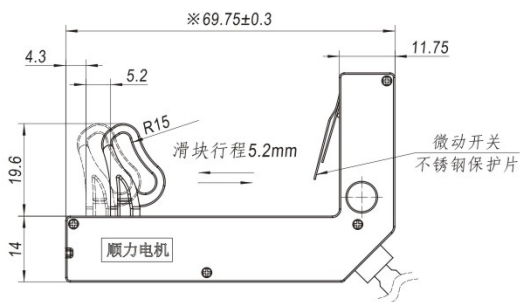
减速比 Ratio	1:4.36	效率 Gearbox Efficiency	80%~90%	工作寿命 Working life	≥ 20 万次
滑块推动行程 Slider push stroke	5.3 mm	滑块推力 Slider thrust	≥ 50gf.cm		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-N20-08330	4.5 VDC	7500	≤ 25	5800	≤ 80	0.25 / 2.5	≤ 300	0.8 / 8.0
SL-N20-08255		10500	≤ 35	8000	≤ 100	0.25 / 2.5	≤ 370	0.95 / 9.5

Backpack Lock Motor

Model: LH7013



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 自动锁体电机可以选配不同尺寸和形状的输出端槽口、橡胶垫等；
Automatic lock motor can be equipped with output outlets and rubber pads of different sizes and shapes.
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

离合器电机技术参数 Clutchmotor Technical Date

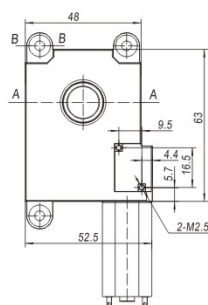
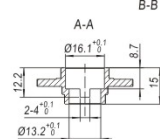
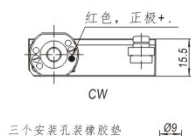
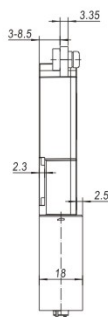
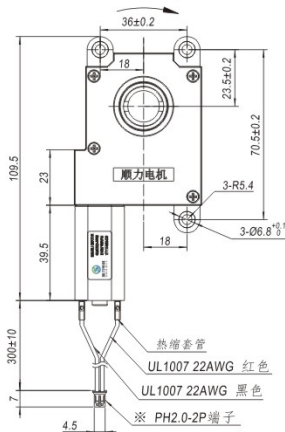
减速比 Ratio	1:4	效率 Gearbox Efficiency	80%~90%	工作寿命 Working life	≥ 20 万次
滑块推动行程 Slider push stroke	5.2 mm	滑块推力 Slider thrust	≥ 50gf.cm		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated			堵转状态 Stall	
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-N20-08330	4.5 VDC	7500	≤ 25	5800	≤ 80	0.25 / 2.5	≤ 300	0.8 / 8.0
SL-N20-08255		10500	≤ 35	8000	≤ 100	0.25 / 2.5	≤ 370	0.95 / 9.5

Backpack Lock Motor

Model: GM63ED



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑, 体积小, 与锁体适配性高, 通用性强;
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳, 寿命长, 静音效果好;
Smooth operation, long life, good mute effect;
- 生产效率高, 成本低;
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整;
The motor parameters can be adjusted according to the actual needs of different customers.
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配;
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 自动锁体电机可以选配不同尺寸和形状的输出端槽口、橡胶垫等;
Automatic lock motor can be equipped with output outlets and rubber pads of different sizes and shapes.
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

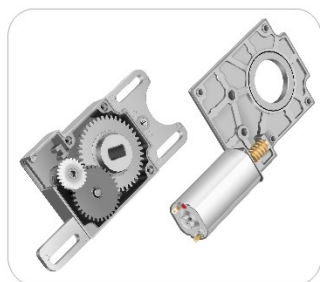
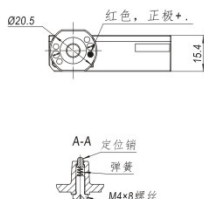
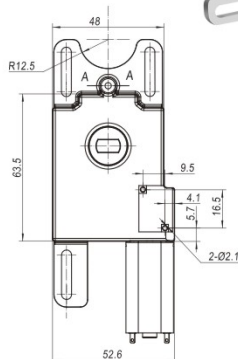
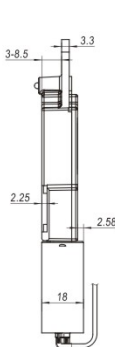
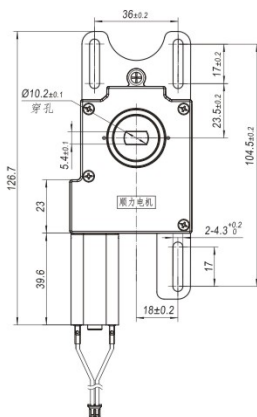
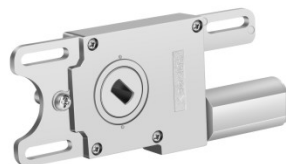
减速比Ratio		182K						效率Gearbox Efficiency		30%~40%	
最大额定可承载扭力Max. Rated Torque		最大破坏扭力Max. Gear Broken Torque						30~50 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall				
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque		
			RPM	mA	RPM	mA	N.m / Kgf.cm	mA	N.m / Kgf.cm		
GM63ED-0002	1 : 182	8	60	≤ 220	52	≤ 1500	0.48 / 4.8	≤ 8500	2.8 / 28		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mN.m / gf.cm
SL-190-3076	8 VDC	11000	≤ 200	9800	≤ 1000	5 / 50	≤ 8500 33 / 330

Backpack Lock Motor

Model: GM64ED



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑, 体积小, 与锁体适配性高, 通用性强;
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳, 寿命长, 静音效果好;
Smooth operation, long life, good mute effect;
- 生产效率高, 成本低;
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整;
The motor parameters can be adjusted according to the actual needs of different customers.
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配;
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 自动锁体电机可以选配不同尺寸和形状的输出端槽口、橡胶垫等;

Automatic lock motor can be equipped with output outlets and rubber pads of different sizes and shapes.

- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。

We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

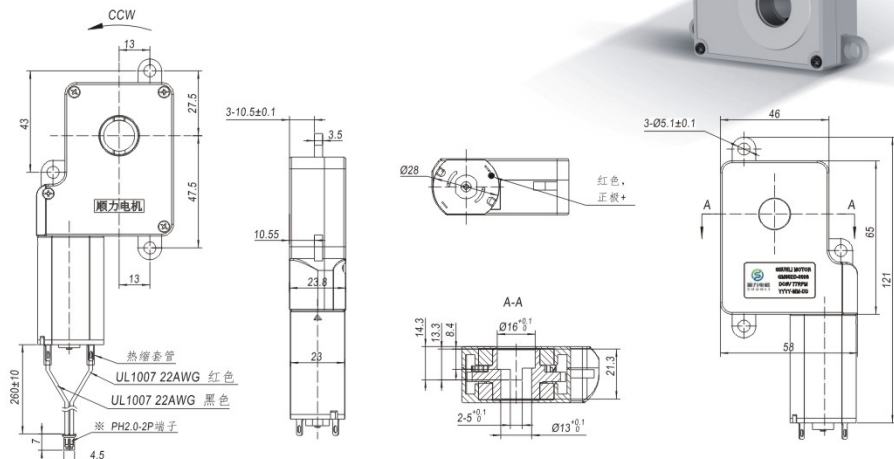
减速比Ratio		182K				效率Gearbox Efficiency		30%~40%
最大额定可承载扭力Max. Rated Torque		15~25 Kgf.cm		最大破坏扭力Max. Gear Broken Torque		30~50 Kgf.cm		
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	扭力Torque
			RPM	mA	RPM	mA	N.m / Kgf.cm	N.m / Kgf.cm
GM63ED-0002	1 : 182	8	60	≤ 220	52	≤ 1500	0.48 / 4.8	≤ 8500 2.5 / 25

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	扭力Torque
		RPM	mA	RPM	mA	mN.m /	mN.m /
SL-190-3076	8 VDC	11000	≤ 200	9800	≤ 1000	5 / 50	≤ 8500 33 / 330

Backpack Lock Motor

Model: GM65ED



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 自动锁电机可以选配不同尺寸和形状的输出端槽口、橡胶垫等；
Automatic lock motor can be equipped with output outlets and rubber pads of different sizes and shapes.
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

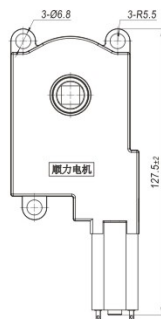
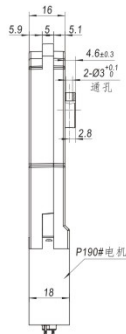
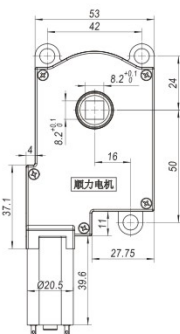
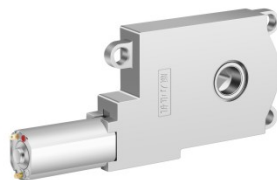
减速比Ratio		97K						效率Gearbox Efficiency		30%~40%	
最大额定可承载扭力Max. Rated Torque		15~25 Kgf.cm		最大破坏扭力Max. Gear Broken Torque				30~50 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall				
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque		
			RPM	mA	RPM	mA	N.m / Kgf.cm	mA	N.m / Kgf.cm		
GM65ED-0008	1 : 97	8	77	≤ 280	65	≤ 1500	0.48 / 4.8	≤ 8500	30 / 30		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	扭力Torque	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mN.m / gf.cm
SL-390-3072	8 VDC	7500	≤ 250	7200	≤ 4750	15 / 150	≤ 8500

Backpack Lock Motor

Model: GM68ED



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

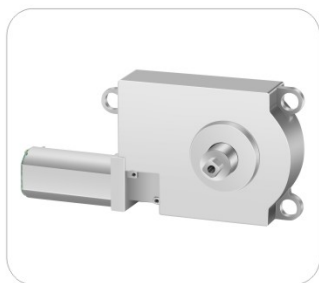
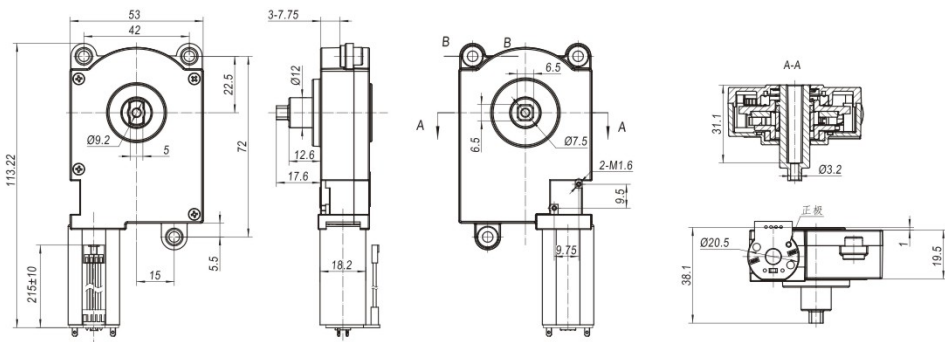
- 自动锁体电机可以选配不同尺寸和形状的输出端槽口、橡胶垫等；
Automatic lock motor can be equipped with output outlets and rubber pads of different sizes and shapes.
- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date										
减速比Ratio		348K					效率Gearbox Efficiency		45%~55%	
最大额定可承载扭力Max. Rated Torque		20~35 Kgf.cm			最大破坏扭力Max. Gear Broken Torque			60~80 Kgf.cm		
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall			
			转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque	
			RPM	mA	RPM	mA	N.m / Kgf.cm	mA	N.m / Kgf.cm	
GM68E	1 : 348	5 VDC	25	≤ 350	20	≤ 1000	0.7 / 7	≤ 8500	3.5 / 35	
		8 VDC	25	≤ 240	20	≤ 950	1.1 / 11	≤ 5500	5.0 / 50	
		12 VDC	25	≤ 200	20	≤ 800	1.0 / 10	≤ 4500	5.0 / 50	

单体直流电机技术参数 PMDC MOTOR Technical Date								
单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall		
		转速Speed RPM	电流Current mA	转速Speed RPM	电流Current mA	扭力Torque mN.m / gf.cm	电流Current mA	扭力Torque mN.m / gf.cm
SL-190-2858	5 VDC	9000	≤ 260	7000	≤ 1300	5 / 50	≤ 5500	20 / 200
SL-190-2395	8 VDC	9000	≤ 160	7200	≤ 800	5 / 50	≤ 4500	20 / 200
SL-190-3076	12 VDC	9000	≤ 130	7200	≤ 600	5 / 50	≤ 4000	22 / 220

Backpack Lock Motor

Model : GM69ED



智能锁类电机优点 Advantages of smart lock motors

- 结构紧凑，体积小，与锁体适配性高，通用性强；
Compact structure, small size, high adaptability to lock body, strong versatility;
- 运转平稳，寿命长，静音效果良好；
Smooth operation, long life, good mute effect;
- 生产效率高，成本低；
High production efficiency and low cost;
- 电机参数可根据不同客户的实际需求做相应调整；
The motor parameters can be adjusted according to the actual needs of different customers.
- 外接输出齿轮、电源线长度、连接器型号等可根据客户要求适配；
The outer press output gear, power cord length, connector model, etc. can be adapted according to customer requirements;

- 自动锁体电机可以选配不同尺寸和形状的输出端槽口、橡胶垫等；
Automatic lock motor can be equipped with output outlets and rubber pads of different sizes and shapes.

- 可以按照客户要求重新设计符合条件的新型号减速箱电机、离合器电机等。
We can redesign the eligible new models of gearbox motors, clutch motors, etc. according to customer requirements.

齿轮箱电机技术参数 Gearmotor Technical Date

减速比Ratio		205K						效率Gearbox Efficiency		30%~40%	
最大额定可承载扭力Max. Rated Torque		15~25 Kgf.cm		最大破坏扭力Max. Gear Broken Torque				30~40 Kgf.cm			
齿轮箱电机型号 Gearmotor Model	减速比 Ratio	额定电压	空载状态 No-Load		额定状态 Rated		堵转状态 Stall				
		Rated Voltage (V)	转速Speed	电流Current	转速Speed	电流Current	扭力Torque	电流Current	扭力Torque		
			RPM	mA	RPM	mA	N.m / Kgf.cm	mA	N.m / Kgf.cm		
GM69E	1 : 205	8	70	≤ 350	55	≤ 1800	0.65 / 6.5	≤ 9000	3.0 / 30		

单体直流电机技术参数 PMDC MOTOR Technical Date

单体直流电机型号 PMDCMOTOR Model	额定电压 Rated Voltage (V)	空载状态 No-Load		额定状态 Rated		堵转状态 Stall	
		转速Speed	电流Current	转速Speed	电流Current	电流Current	扭力Torque
		RPM	mA	RPM	mA	mN.m / gf.cm	mN.m / gf.cm
SL-190-3260	8 VDC	14500	≤ 300	11800	≤ 1550	5 / 50	≤ 9000
							40 / 400



顺力电机
SHUNLI

自动锁体电机 • 离合器电机 • 全自动(背包)锁电机
Automatic Locking Motor • Clutch Motor • Backpack Lock Motor

