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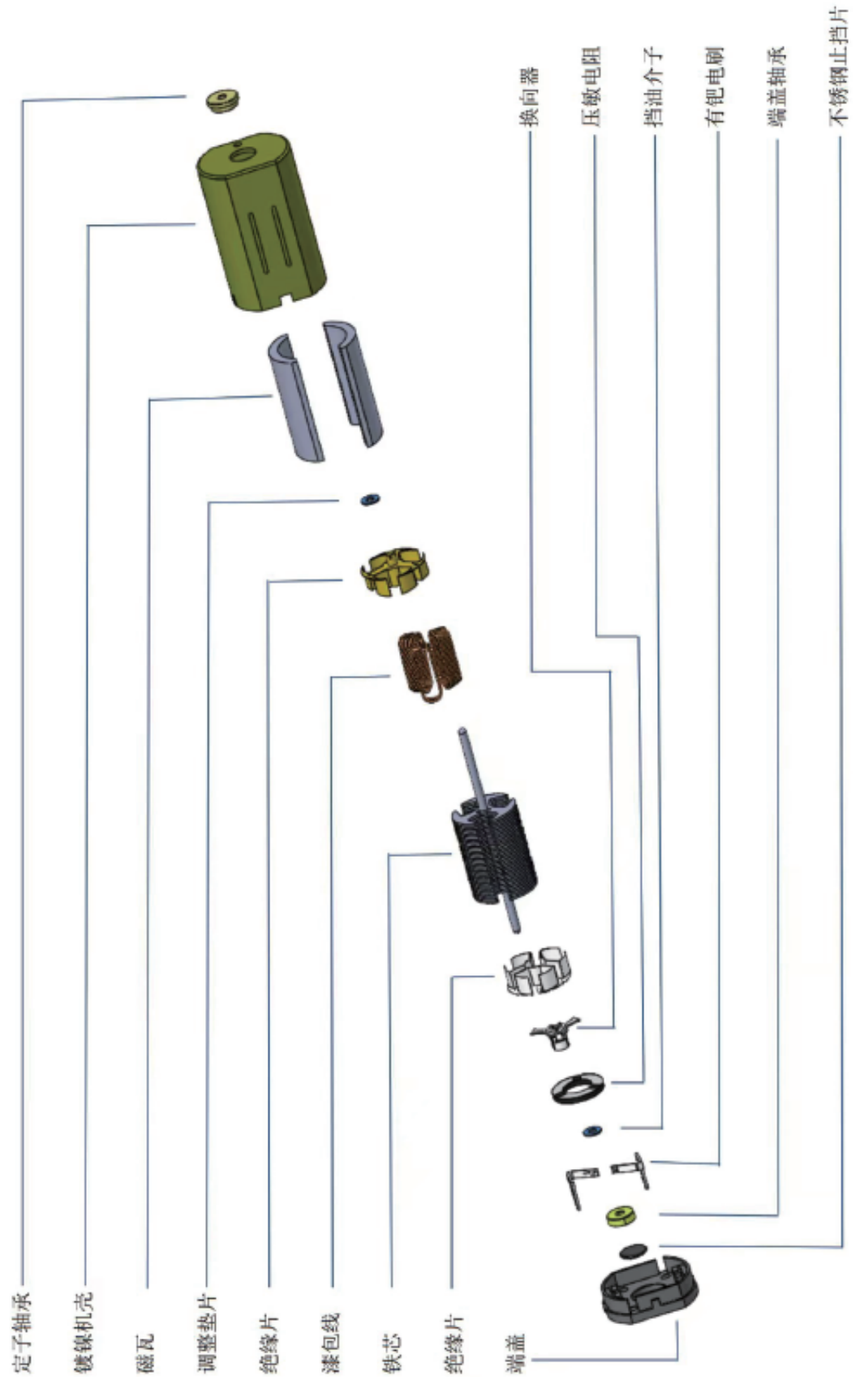
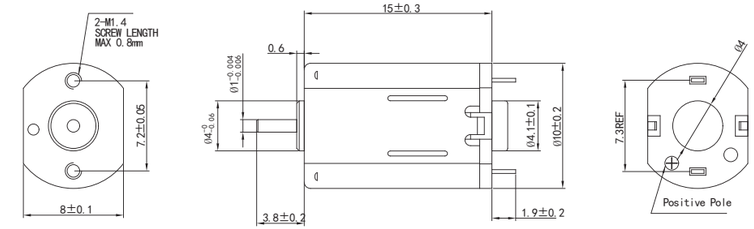


KFF-M20VA

TSL



电机尺寸/Dimensional Drawing(mm)

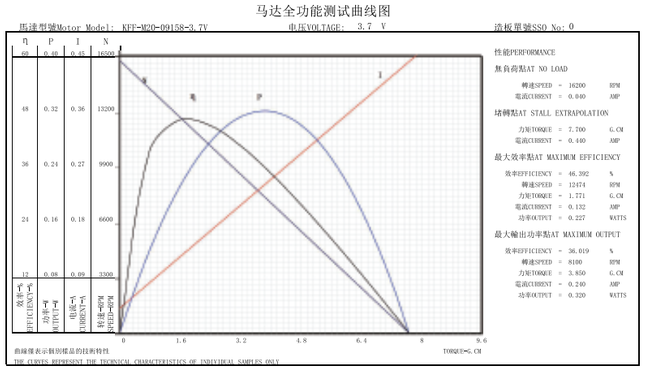
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-M20-09158	3.7	16200	40	14300	1.0	92	0.34	7.7	0.44
KFF-M20-07206	6.0	19000	40	15000	2.0	136	0.82	8.6	0.45

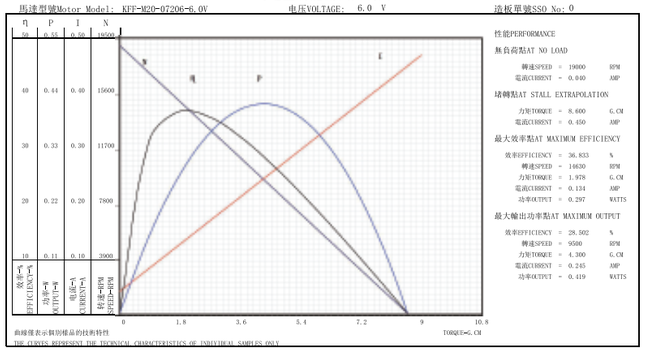
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

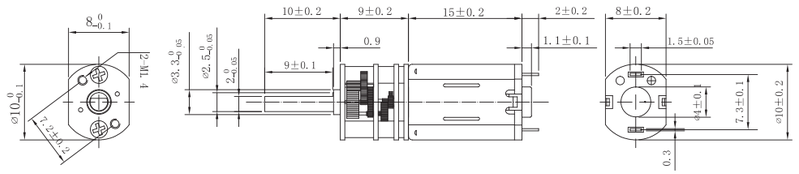
马达全功能测试曲线图



马达全功能测试曲线图



GM10-M20VA



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-M20-09220	5.0	14800	30	12000	2.5	120	0.31	13.0	0.52
KRK-M20-05430	12.0	16000	15	12500	3.0	60	0.35	13.0	0.25

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM10-M20-09220

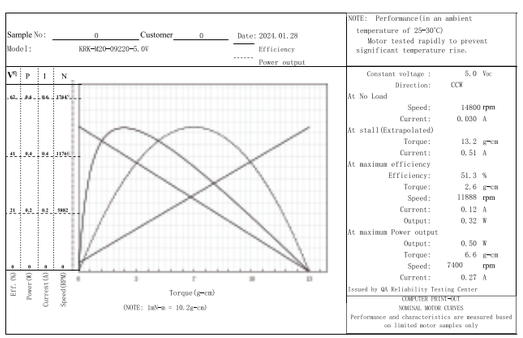
减速比 Reduction ratio	10	30	50	100	158	224	258		
减速器长度 Length (mm)	9	9	9	9	9	9	9		
空载转速 No-load speed (rpm)	1480	13	296	148	94	66	57		
额定转速 Rated speed (rpm)	1200	400	240	120	80	57	48		
额定转矩 Rated torque (kg.cm)	0.015	0.05	0.07	0.15	0.22	0.31	0.37		
堵转 Stalling Torque (kg.cm)	0.08	0.23	0.4	0.8	1.1	1.5	1.6		

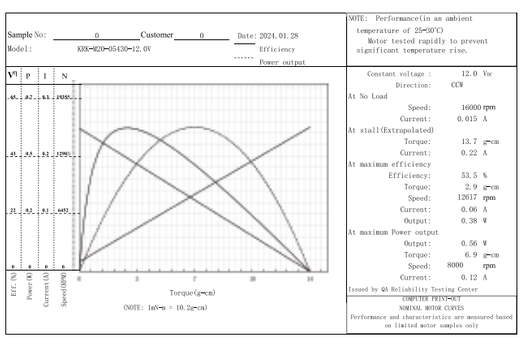
*Gear Motor Technical Data-GM10-M20-05430

减速比 Reduction ratio	10	30	50	100	158	224	258		
减速器长度 Length (mm)	9	9	9	9	9	9	9		
空载转速 No-load speed (rpm)	1600	533	320	160	101	71	62		
额定转速 Rated speed (rpm)	1100	400	250	125	83	60	50		
额定转矩 Rated torque (kg.cm)	0.020	0.05	0.08	0.18	0.27	0.37	0.45		
堵转 Stalling Torque (kg.cm)	0.10	0.20	0.4	0.8	1.1	1.5	1.6		

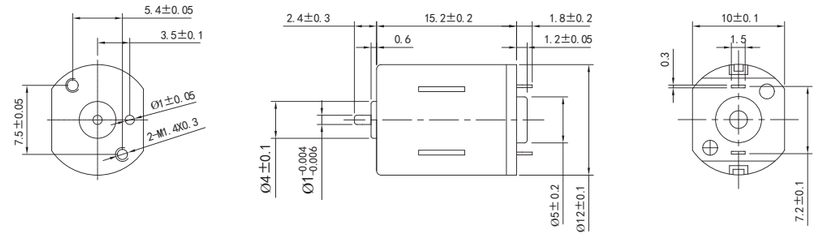
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





KFK-N20VA



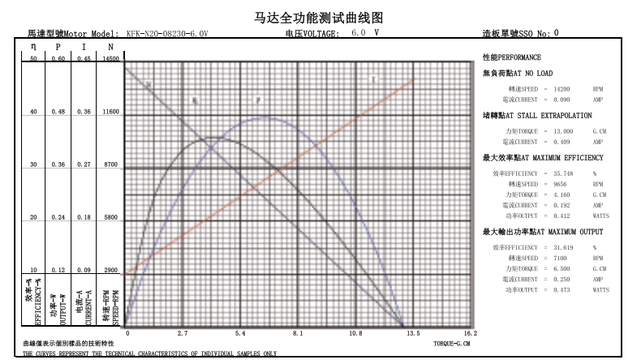
电机尺寸/Dimensional Drawing(mm)

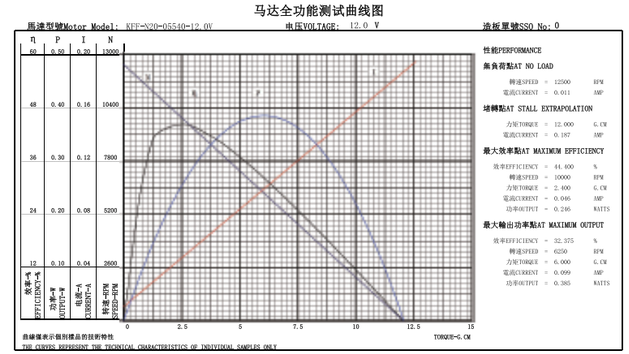
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFK-N20-08230	6.0	14200	90	12212	2.0	93	0.558	13	0.41
KFF-N20-05540	12.0	12500	11	10614	2.0	37	0.444	12	0.19

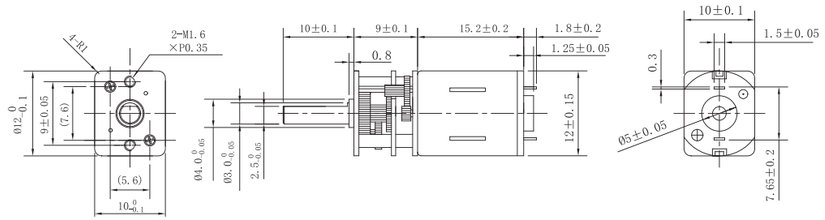
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM12-N20VA



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-N20-05Z450	3.0	3400	15	2400	1	50	0.15	3.40	0.09
KFF-N20-06350	12.0	20000	28	18000	2	75	0.90	20.00	0.50

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM12-N20-05Z450

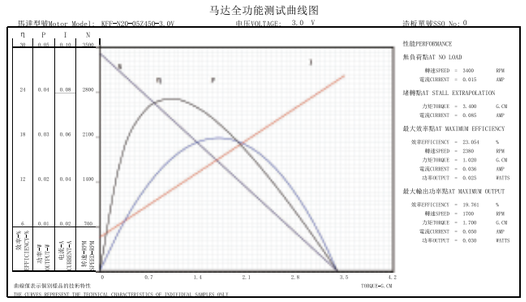
减速比 Reduction ratio	30	50	100	150	210	250	298	330	380
减速器长度 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	113	68	34	23	16	14	11	10	9
额定转速 Rated speed (rpm)	80	48	24	16	11	10	8	7	6
额定转矩 Rated torque (kg.cm)	0.02	0.03	0.06	0.07	0.10	0.12	0.14	0.16	0.19
堵转 Stalling Torque (kg.cm)	0.07	0.10	0.20	0.25	0.35	0.42	0.50	0.56	0.64

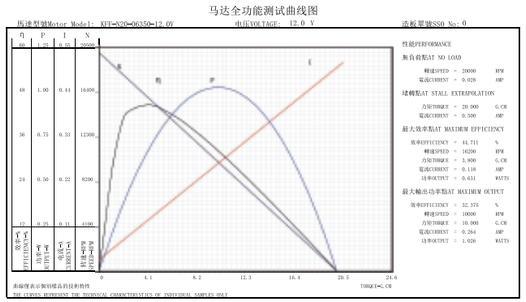
*Gear Motor Technical Data-GM12-N20-06350

减速比 Reduction ratio	30	50	100	150	210	250	298	330	380
减速器长度 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	667	400	200	133	95	80	67	61	53
额定转速 Rated speed (rpm)	600	360	180	120	86	72	60	55	47
额定转矩 Rated torque (kg.cm)	0.04	0.06	0.12	0.15	0.21	0.25	0.29	0.33	0.38
堵转 Stalling Torque (kg.cm)	0.42	0.60	1.20	1.50	2.10	2.50	2.98	3.30	3.80

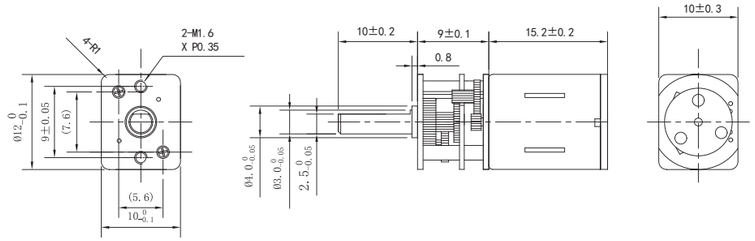
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM12-N20VA-EN



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-N20-10138	3.7	15000	78	12300	2	200	0.74	11.11	0.82
KFF-N20-05Z390	6.0	7900	30	5700	2	75	0.45	7.18	0.18

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM12-N20-10138

减速比 Reduction ratio	30	50	100	150	210	250	298	330	380
减速器长度 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	500	300	150	100	71	60	50	45	39
额定转速 Rated speed (rpm)	410	246	123	82	59	49	41	37	32
额定转矩 Rated torque (kg.cm)	0.042	0.060	0.120	0.150	0.210	0.250	0.298	0.330	0.380
堵转 Stalling Torque (kg.cm)	0.233	0.333	0.667	0.833	1.167	1.389	1.656	1.833	2.111

*Gear Motor Technical Data-GM12-N20-05Z390

减速比 Reduction ratio	30	50	100	150	210	250	298	330	380
减速器长度 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	263	158	79	53	38	32	27	24	21
额定转速 Rated speed (rpm)	190	114	57	38	27	23	19	17	15
额定转矩 Rated torque (kg.cm)	0.042	0.060	0.120	0.150	0.210	0.250	0.298	0.330	0.380
堵转 Stalling Torque (kg.cm)	0.151	0.215	0.431	0.539	0.754	0.898	1.070	1.185	1.365

Comment: The length of shaft and parameters can be customized according to customer requirements.

编码器性能参数/Encoder performance parameters

※ 概 述

N20_ks04201款编码器是一款双通单增量型磁编码器，磁编码器包含一个磁环和霍尔检测电路双通道霍尔编码器，采用霍尔原理，利用磁性检测方式，将位移数据转换为电脉冲信号。该编码器适用于各种恶劣环境!

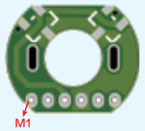
※ 电气属性

规格特性	符号	测试条件	Min	Typ	Max	单位
电源电压	Vcc	TJ＜TJ(max.)	2.5	5	24	V
电源电流	Icc	VCC=2.5~24V	-	8	10	mA
内置上拉电阻	Rpull	-	5	10	15	Kω
频率	F		20	-	-	KHZ
关断漏电流	IQL	output Hi-z	-	-	6.0	μA
工作环境温度	TA		-40~150			℃

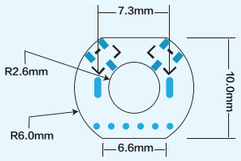
(信号输出 3 PPR)

※ 线序图与实物（以右边编码器为参考）

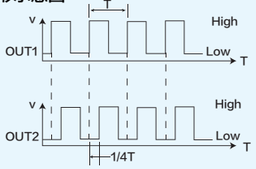
1.马达供电-Motor(M1)
2.马达供电-Motor(M2)
3.编码器电源-5V
4.编码器接地-GND(电源负极)
5.编码器输出-OUT A
6.编码器输出-OUT B
（注意：编码器接线方式若接错，将导致霍尔芯片烧毁）



※ 编码器尺寸



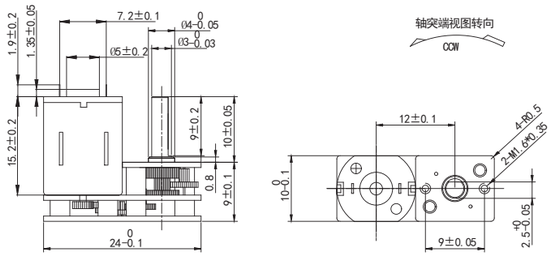
※ 波形示意图



※ 线 缆

(实物图)

GM1024-N20VA



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-N20-09Z155	6.0	22500	70	20000	2	175	1.05	18.00	1.10
KFF-N20-05540	12.0	12500	15	10600	2	55	0.66	13.16	0.20

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM1024-N20-09Z155

减速比 Reduction ratio	10	30	50	100	150	218	250	298	350
减速器长度 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	2250	750	450	225	150	103	90	76	64
额定转速 Rated speed (rpm)	2000	667	400	200	133	92	80	67	57
额定转矩 Rated torque (kg.cm)	0.01	0.03	0.06	0.12	0.12	0.17	0.20	0.23	0.28
堵转 Stalling Torque (kg.cm)	0.14	0.32	0.54	1.08	1.08	1.57	1.80	2.14	2.52

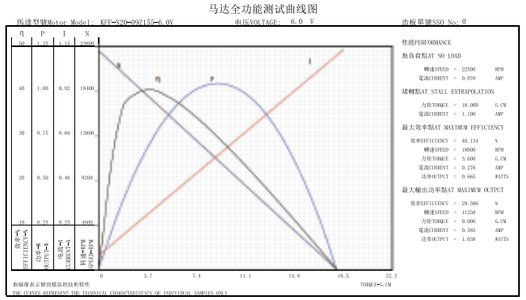
*Gear Motor Technical Data-GM1024-N20-05540

减速比 Reduction ratio	10	30	50	100	168	210	250	298	380
减速器长度 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	1250	417	250	125	74	60	50	42	33
额定转速 Rated speed (rpm)	1060	353	212	106	63	50	42	36	28
额定转矩 Rated torque (kg.cm)	0.01	0.03	0.06	0.12	0.13	0.16	0.20	0.23	0.30
堵转 Stalling Torque (kg.cm)	0.10	0.23	0.39	0.78	0.88	1.10	1.31	1.56	2.00

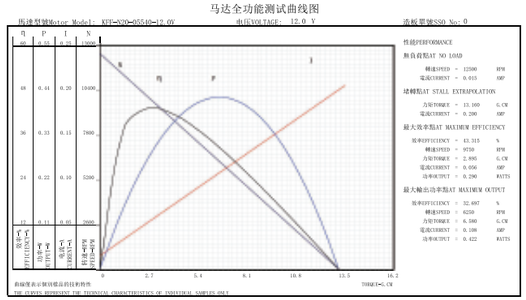
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

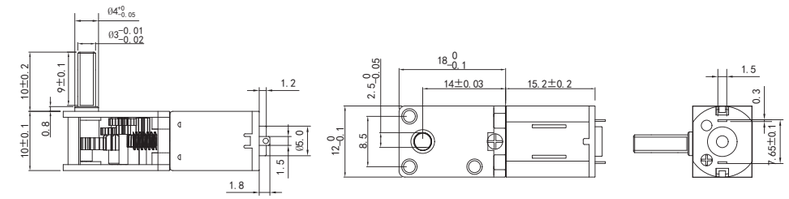
马达全功能测试曲线图



马达全功能测试曲线图



GM1812-N20VA



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-N20-11153	3.0	11200	65	9600	2	150	0.45	14.00	0.75
KFF-N20-06Z290	12.0	23000	45	20800	2	100	1.20	20.91	0.58

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM1812-N20-11135

减速比 Reduction ratio	42	80	105	121	158	230	302	346	453
减速器长度 Length (mm)	10	10	10	10	10	10	10	10	10
空载转速 No-load speed (rpm)	267	140	107	93	71	49	37	32	25
额定转速 Rated speed (rpm)	229	120	91	79	61	42	32	28	21
额定转矩 Rated torque (kg.cm)	0.05	0.09	0.12	0.14	0.19	0.23	0.30	0.34	0.45
堵转 Stalling Torque (kg.cm)	0.35	0.67	0.88	1.01	1.32	1.61	2.11	2.42	3.17

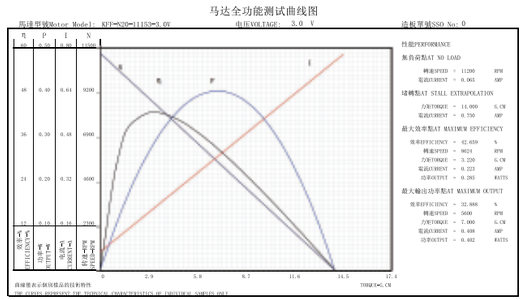
*Gear Motor Technical Data-GM1024-N20-06Z290

减速比 Reduction ratio	42	80	105	121	158	230	302	346	453
减速器长度 Length (mm)	10	10	10	10	10	10	10	10	10
空载转速 No-load speed (rpm)	548	288	219	190	146	100	76	66	51
额定转速 Rated speed (rpm)	495	260	198	172	132	90	69	60	46
额定转矩 Rated torque (kg.cm)	0.05	0.09	0.12	0.14	0.19	0.23	0.30	0.34	0.45
堵转 Stalling Torque (kg.cm)	0.52	1.00	1.31	1.51	1.98	2.40	3.15	3.61	4.73

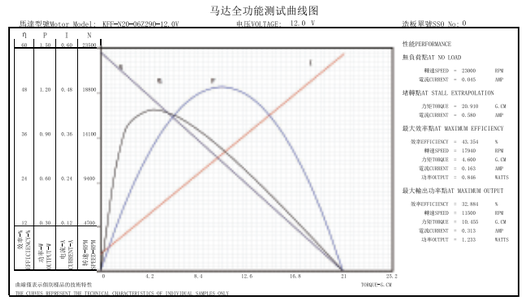
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

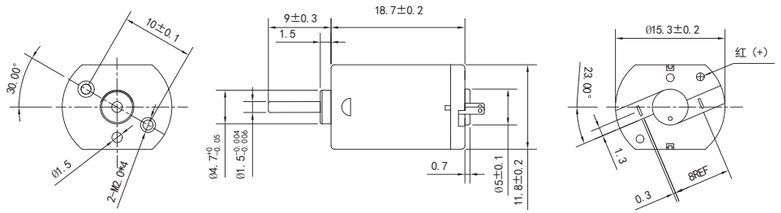
马达全功能测试曲线图



马达全功能测试曲线图



KFF-030PB



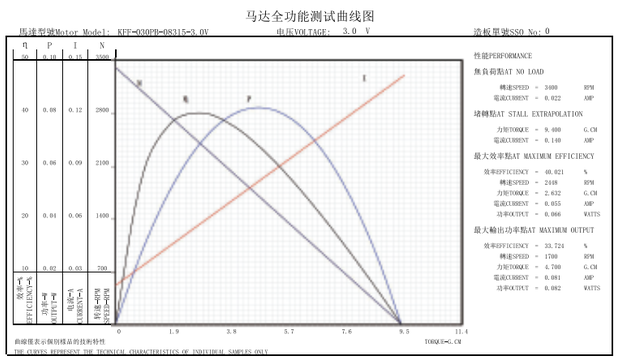
电机尺寸/Dimensional Drawing(mm)

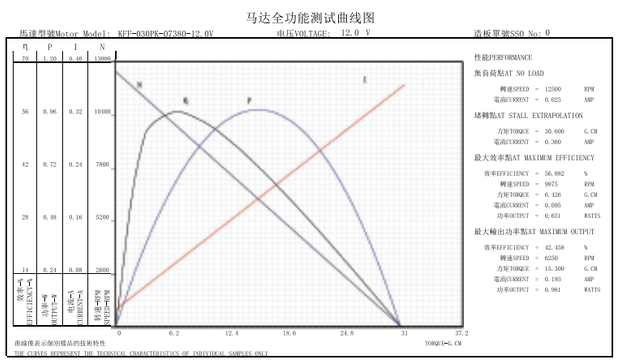
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-030PB-08315	3.0	3400	22	1600	5.0	100	0.3	9.4	0.14
KFF-030PK-07380	12.0	12500	25	10400	5.0	84	1.01	30.6	0.36

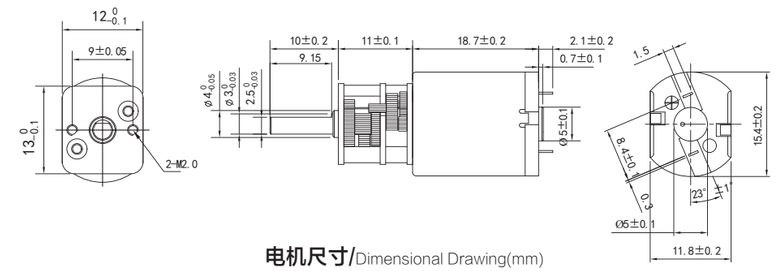
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM13-030PB



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-030PB-08315	3.0	3400	22	1605	5.0	97	0.29	9.5	0.14
KFF-030PB-09230	12.0	20500	47	17600	5.0	151	1.81	35.3	0.74

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM13-030PB-08315

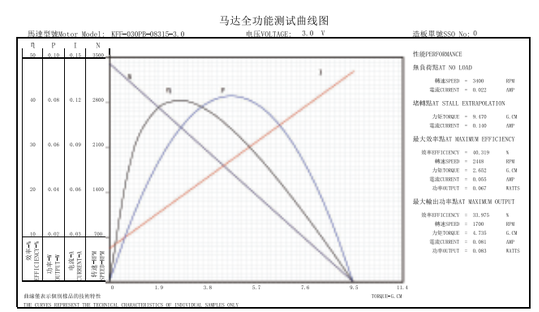
减速比 Reduction ratio	20	52	85	118	170	215	250	297	360
减速器长度 Length (mm)	11	11	11	11	11	11	11	11	11
空载转速 No-load speed (rpm)	170	65	40	29	20	16	14	11	9
额定转速 Rated speed (rpm)	80	31	19	14	9	7	6	5	4
额定转矩 Rated torque (kg.cm)	0.07	0.15	0.25	0.29	0.42	0.53	0.62	0.74	0.90
堵转 Stalling Torque (kg.cm)	0.13	0.29	0.48	0.55	0.80	1.01	1.18	1.40	1.70

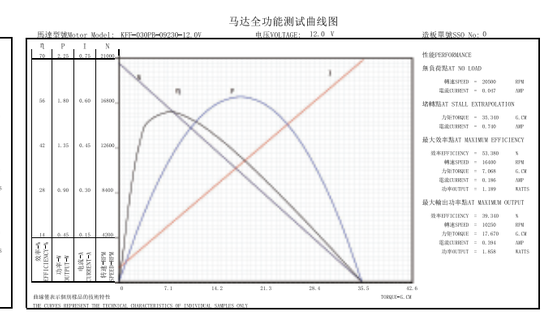
*Gear Motor Technical Data-GM13-030PB-09230

减速比 Reduction ratio	20	52	85	118	170	215	250	297	360
减速器长度 Length (mm)	11	11	11	11	11	11	11	11	11
空载转速 No-load speed (rpm)	1025	394	241	174	121	95	82	69	57
额定转速 Rated speed (rpm)	880	338	207	149	104	82	70	59	49
额定转矩 Rated torque (kg.cm)	0.07	0.15	0.25	0.29	0.42	0.53	0.62	0.74	0.90
堵转 Stalling Torque (kg.cm)	0.49	1.10	1.80	2.08	3.00	3.80	4.41	5.24	6.36

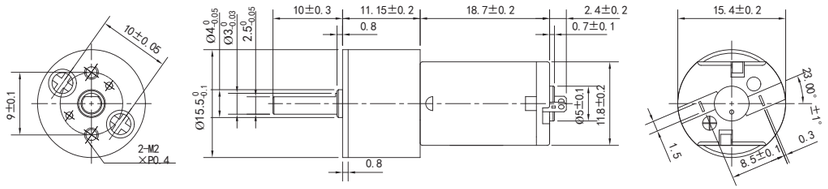
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM16-030PB



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-030PB-11158	3.0	7500	46	6650	2	106	0.32	15.88	0.51
KFF-030PB-05700	24.0	13500	20	11100	5	53	1.27	25.31	0.19

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM16-030PB-11158

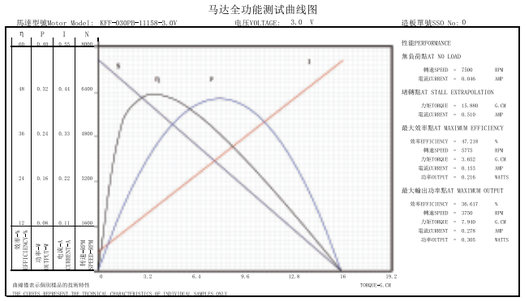
减速比 Reduction ratio	20	52	85	118	170	215	250	297	360
减速器长度 Length (mm)	11	11	11	11	11	11	11	11	11
空载转速 No-load speed (rpm)	375	144	88	64	44	35	30	25	21
额定转速 Rated speed (rpm)	333	128	78	56	39	31	27	22	18
额定转矩 Rated torque (kg.cm)	0.02	0.06	0.10	0.11	0.17	0.21	0.25	0.29	0.36
堵转 Stalling Torque (kg.cm)	0.22	0.49	0.81	0.93	1.35	1.70	1.98	2.35	2.85

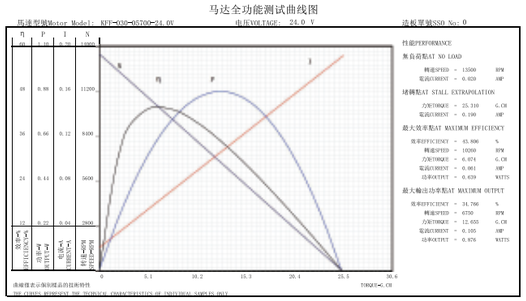
*Gear Motor Technical Data-GM16-030PB-05700

减速比 Reduction ratio	20	52	85	118	170	215	250	297	360
减速器长度 Length (mm)	11	11	11	11	11	11	11	11	11
空载转速 No-load speed (rpm)	675	260	159	114	79	63	54	45	38
额定转速 Rated speed (rpm)	555	213	131	94	65	52	44	37	31
额定转矩 Rated torque (kg.cm)	0.07	0.15	0.25	0.29	0.42	0.53	0.62	0.74	0.90
堵转 Stalling Torque (kg.cm)	0.35	0.79	1.29	1.49	2.15	2.72	3.16	3.75	4.55

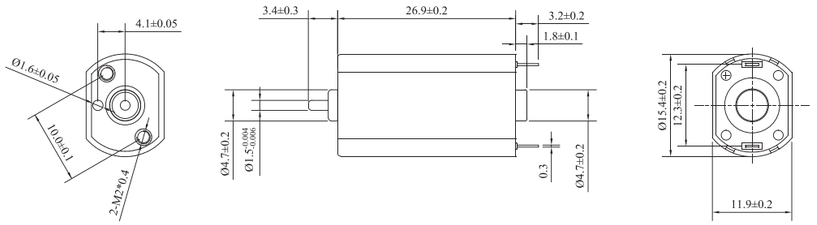
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





KFF-050SH



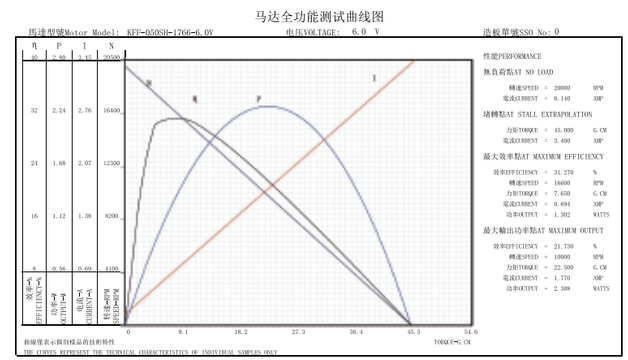
电机尺寸/Dimensional Drawing(mm)

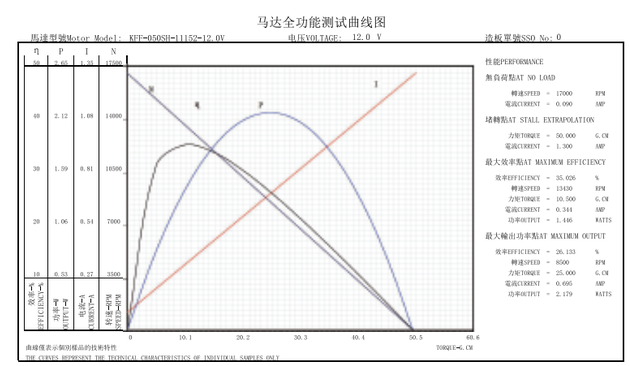
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-050SH-11155	3.0	4000	38	3100	5.0	120	0.36	21.8	0.35
KFF-050SH-1766	6.0	20000	140	18000	5.0	360	2.16	45.0	3.40

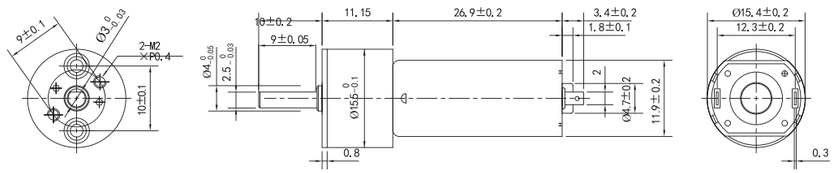
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM16-050SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-050SH-1496	3	6500	68	5500	5	198	0.59	32.5	0.83
KFF-050SH-12130	12	20400	80	19400	5	175	2.1	102	1.91

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM16-050SH-1496

减速比 Reduction ratio	20	52	85	118	170	215	250	297	360
减速器长度 Length (mm)	11	11	11	11	11	11	11	11	11
空载转速 No-load speed (rpm)	325	125	76	55	38	30	26	22	18
额定转速 Rated speed (rpm)	275	106	65	47	32	26	22	19	15
额定转矩 Rated torque (kg.cm)	0.07	0.15	0.25	0.29	0.42	0.53	0.62	0.74	0.90
堵转 Stalling Torque (kg.cm)	0.45	1.01	1.65	1.91	2.76	3.49	4.06	4.82	5.85

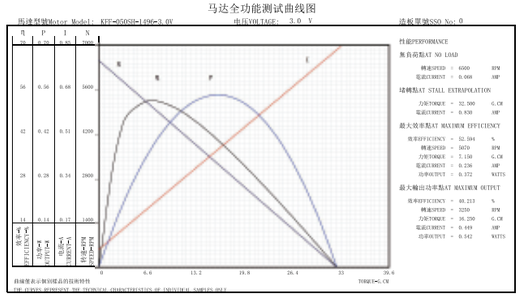
*Gear Motor Technical Data-GM16-050SH-12130

减速比 Reduction ratio	20	52	85	118	170	215	250	297	360
减速器长度 Length (mm)	11	11	11	11	11	11	11	11	11
空载转速 No-load speed (rpm)	1020	392	240	173	120	95	82	69	57
额定转速 Rated speed (rpm)	970	373	228	164	114	90	78	65	54
额定转矩 Rated torque (kg.cm)	0.07	0.15	0.25	0.29	0.42	0.53	0.62	0.74	0.90
堵转 Stalling Torque (kg.cm)	1.42	3.18	5.20	6.01	8.67	10.96	12.75	15.14	18.36

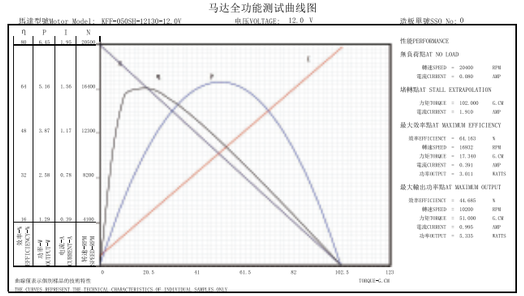
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

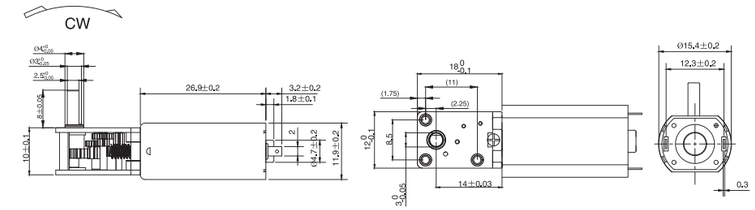
马达全功能测试曲线图



马达全功能测试曲线图



GM1812-050SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRF-050SH-11155	6.0	8180	44	7180	5.0	125	0.75	40.9	0.748
KRF-050SH-11170	12.0	16700	65	15450	5.0	142	1.70	66.8	1.021

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM1812-050-XXX

减速比 Reduction ratio	18	42	80	115	231	302	604	1030	
空载转速 No-load speed (rpm)	444	190	100	70	35	26	13	8	
额定转速 Rated speed (rpm)	345	143	75	50	24	20	10	6	
额定转矩 Rated torque (kg.cm)	124.00	252.00	470.00	705.00	1410.00	1812.00	3618.00	6180.0	
堵转 Stalling Torque (kg.cm)	38.00	76.00	140.0	210.0	420.0	544.0	1085.0	1854	

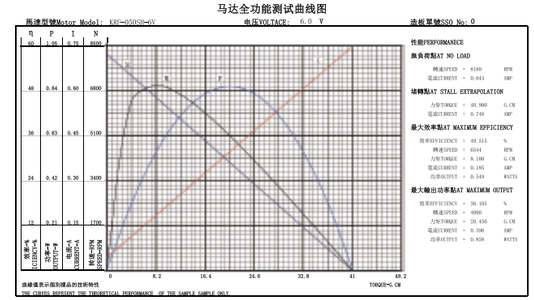
*Gear Motor Technical Data-GM1812-050-XXX

减速比 Reduction ratio	18	42	80	115	231	302	604	1030	
空载转速 No-load speed (rpm)	889	381	200	139	69	53	26	16	
额定转速 Rated speed (rpm)	780	333	175	117	58	46	23	14.0	
额定转矩 Rated torque (kg.cm)	230.00	504.00	950.00	1416.00	2830.00	3624.00	7230.00	12360.00	
堵转 Stalling Torque (kg.cm)	68.00	151.00	290.0	425.0	850.0	1087.0	2170.0	3708	

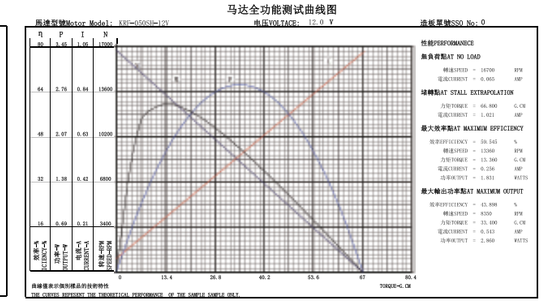
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

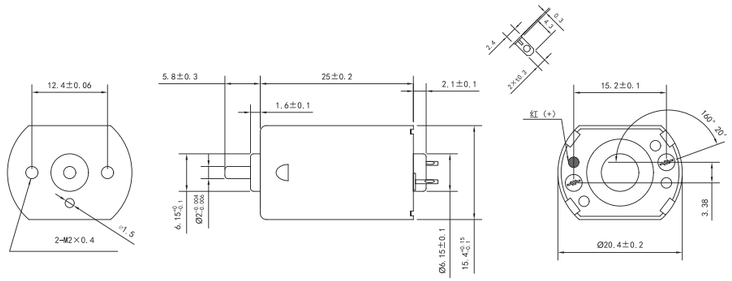
马达全功能测试曲线图



马达全功能测试曲线图



KFF-130SH



电机尺寸/Dimensional Drawing(mm)

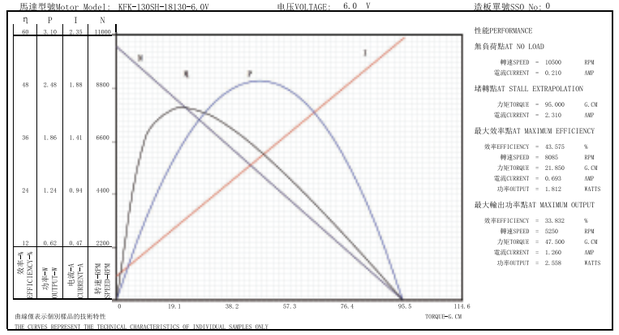
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFK-130SH-18130	6.0	10500	210	8500	20.0	610	3.66	95	2.31
KFK-130SH-16135	12.0	22000	168	18900	20.0	585	7.02	128	3.04

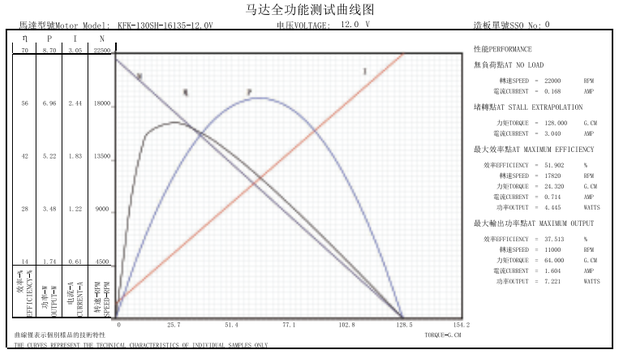
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

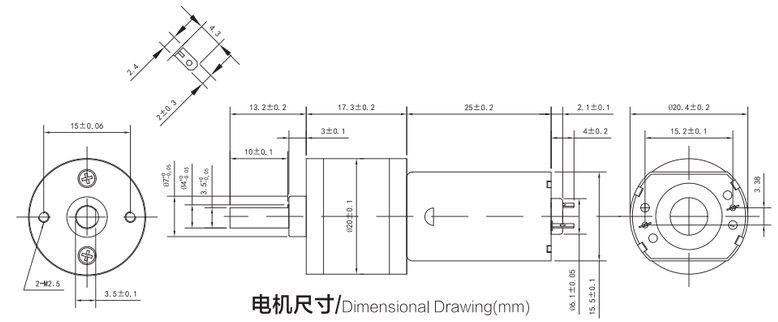
马达全功能测试曲线图



马达全功能测试曲线图



GM20-130SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-130SH-17119	3.0	6100	98	3650	20	570	1.71	49.80	1.16
KFF-130SH-11285	14.0	12000	44	9700	20	225	3.15	104.35	0.96

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM20-130SH-17119

减速比 Reduction ratio	62.5	78	100	125	156	195	250	312	390
减速器长度 Length (mm)	17.3	17.3	18.8	18.8	18.8	18.8	20.3	20.3	20.3
空载转速 No-load speed (rpm)	98	78	61	49	39	31	24	20	16
额定转速 Rated speed (rpm)	58	47	37	29	23	19	15	12	9
额定转矩 Rated torque (kg.cm)	0.62	0.78	0.80	1.00	1.24	1.56	1.50	1.87	2.34
堵转 Stalling Torque (kg.cm)	1.55	1.94	1.99	2.49	3.10	3.88	3.73	4.66	5.82

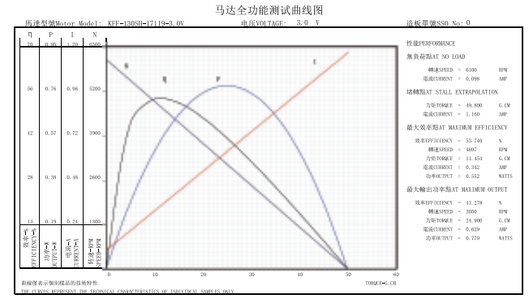
*Gear Motor Technical Data-GM20-130SH-11285

减速比 Reduction ratio	62.5	78	100	125	156	195	250	312	390
减速器长度 Length (mm)	17.3	17.3	18.8	18.8	18.8	18.8	20.3	20.3	20.3
空载转速 No-load speed (rpm)	192	154	120	96	77	62	48	38	31
额定转速 Rated speed (rpm)	155	124	97	78	62	50	39	31	25
额定转矩 Rated torque (kg.cm)	0.62	0.78	0.80	1.00	1.24	1.56	1.50	1.87	2.34
堵转 Stalling Torque (kg.cm)	3.26	4.07	4.17	5.21	6.51	8.13	7.82	9.76	12.20

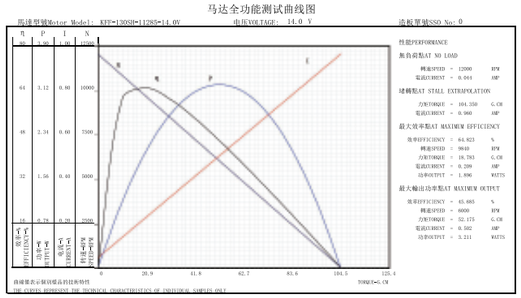
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

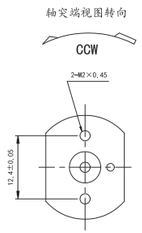
马达全功能测试曲线图

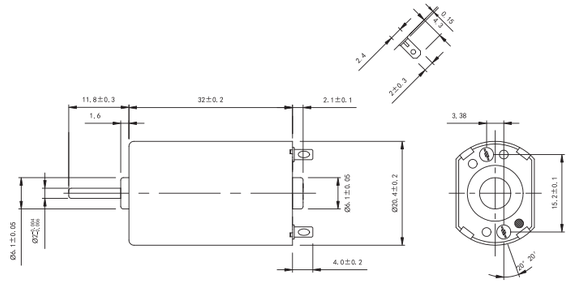


马达全功能测试曲线图



KFK-180SH





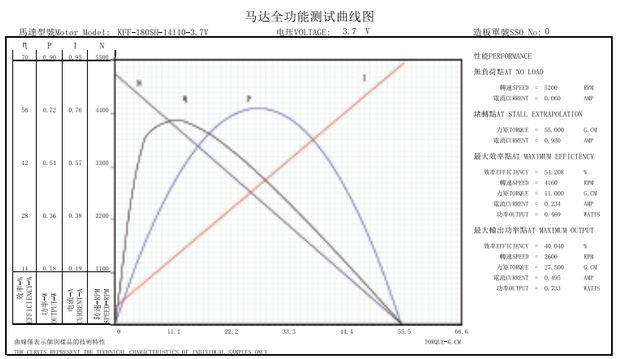
电机尺寸/Dimensional Drawing(mm)

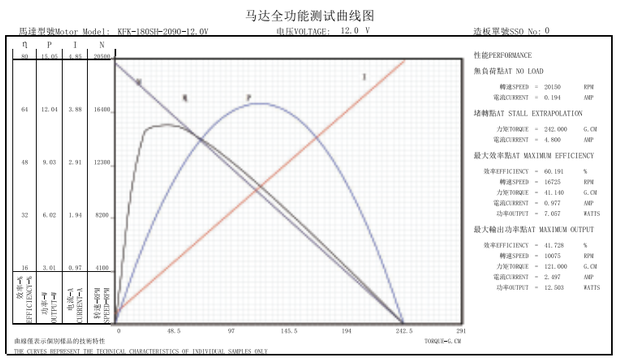
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-180SH-14110	3.7	5200	60	3500	20.0	360	1.33	55	0.93
KFK-180SH-2090	12.0	20150	194	18650	20.0	549	6.59	242	4.80

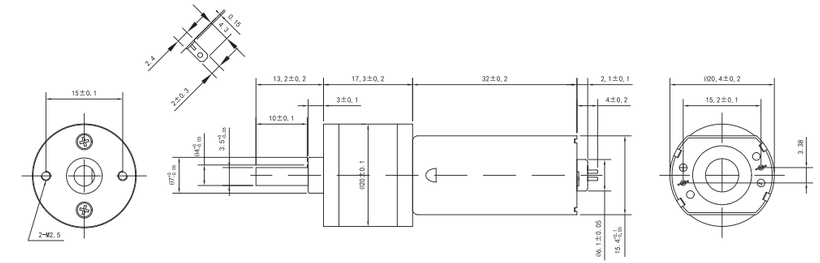
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM20-180SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-180SH-2375	3.0	6100	106	4750	20	569	1.707	90.37	2.08
KFF-180SH-10390	24.0	9600	24	8300	20	112	2.69	147.69	0.66

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM20-180SH-2375

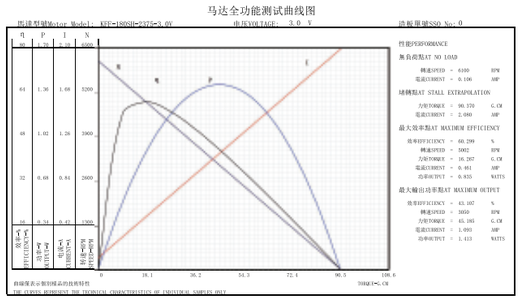
减速比 Reduction ratio	62.5	78	100	125	156	195	250	312	390
减速器长度 Length (mm)	17.3	17.3	18.8	18.8	18.8	18.8	20.3	20.3	20.3
空载转速 No-load speed (rpm)	98	78	61	49	39	31	24	20	16
额定转速 Rated speed (rpm)	76	61	48	38	30	24	19	15	12
额定转矩 Rated torque (kg.cm)	0.62	0.78	0.80	1.00	1.24	1.56	1.50	1.87	2.34
堵转 Stalling Torque (kg.cm)	2.82	3.52	3.61	4.51	5.63	7.04	6.77	8.45	10.57

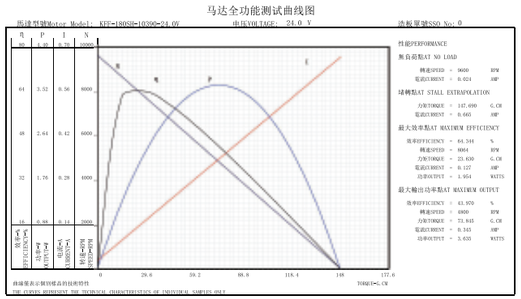
*Gear Motor Technical Data-GM20-180SH-10390

减速比 Reduction ratio	62.5	78	100	125	156	195	250	312	390
减速器长度 Length (mm)	17.3	17.3	18.8	18.8	18.8	18.8	20	20	20
空载转速 No-load speed (rpm)	154	123	96	77	62	49	38	31	25
额定转速 Rated speed (rpm)	133	106	83	66	53	43	33	27	21
额定转矩 Rated torque (kg.cm)	0.62	0.78	0.80	1.00	1.24	1.56	1.50	1.87	2.34
堵转 Stalling Torque (kg.cm)	4.61	5.76	5.90	7.38	9.21	11.52	11.07	13.82	17.28

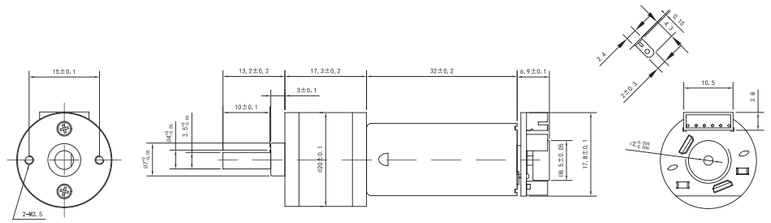
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM20-180SH-EN



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFK-180SH-18125	12.0	15000	158	13400	20	442	5.304	168.75	4.10
KFK-180SH-13230	24.0	15000	95	14000	20	236	5.66	270.00	1.78

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM20-180SH-2375

减速比 Reduction ratio	62.5	78	100	125	156	195	250	312	390
减速器长度 Length (mm)	17.3	17.3	18.8	18.8	18.8	18.8	20.3	20.3	20.3
空载转速 No-load speed (rpm)	240	192	150	120	96	77	60	48	38
额定转速 Rated speed (rpm)	214	172	134	107	86	69	54	43	34
额定转矩 Rated torque (kg.cm)	0.62	0.78	0.80	1.00	1.24	1.56	1.50	1.87	2.34
堵转 Stalling Torque (kg.cm)	5.27	6.58	6.75	8.43	10.53	13.16	12.65	15.79	19.74

*Gear Motor Technical Data-GM20-180SH-10390

减速比 Reduction ratio	62.5	78	100	125	156	195	250	312	390
减速器长度 Length (mm)	17.3	17.3	18.8	18.8	18.8	18.8	20	20	20
空载转速 No-load speed (rpm)	240	192	150	120	96	77	60	48	38
额定转速 Rated speed (rpm)	224	179	140	112	90	72	56	45	36
额定转矩 Rated torque (kg.cm)	0.62	0.78	0.80	1.00	1.24	1.56	1.50	1.87	2.34
堵转 Stalling Torque (kg.cm)	8.43	10.53	10.80	13.50	16.84	21.06	20.25	25.27	31.59

编码器性能参数/Encoder performance parameters

※ 概 述 Comment: The length of shaft and parameters can be customized according to customer requirements.

Y90是一款双通单增量型磁编码器，磁编码器包含一个磁环和霍尔检测电路双通道霍尔编码器，采用霍尔原理，利用磁性检测方式，将位移数据转换为电脉冲信号。该编码器适用于各种恶劣环境!

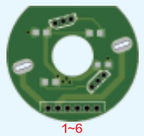
※ 线序图与实物（以右边编码器为参考）

1.马达供电-Motor　　4.编码器接地-GND

2.马达供电-Motor　　5.编码器输出-OUT A

3.编码器电源-VCC　　6.编码器输出-OUT B

（注意：编码器接线方式若接错，将导致霍尔芯片烧毁）

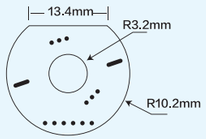


※ 电气属性

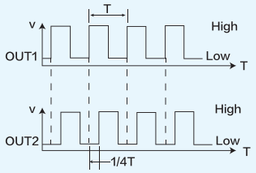
规格特性	符号	测试条件	Min	Typ	Max	单位
电源电压	Vcc	TJ＜TJ(max.)	2.5	3.3	24	V
电源电流	Icc	VCC=3~24V	-	28	40	mA
输出击穿电压	Vce		-	-	28	V
频率	F		-	10	-	KHZ
关断漏电流	IQL	Output Hi-z	-	-	6.0	μA
工作环境温度	TA		-30~85			℃

(信号输出 3 PPR)

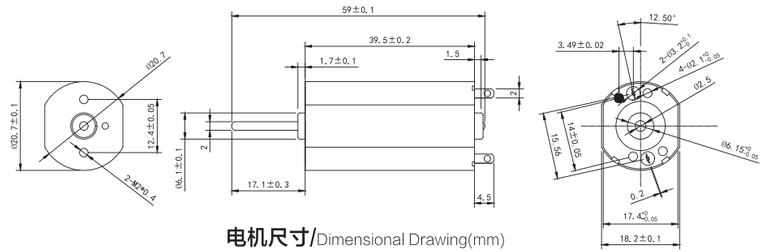
※ 编码器尺寸



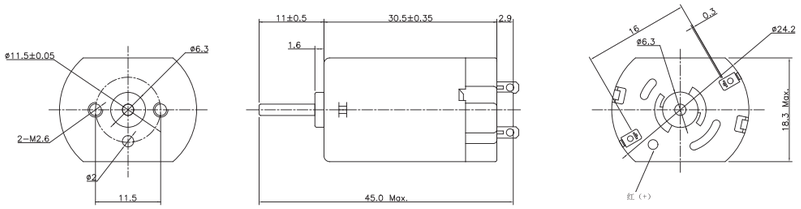
※ 波形示意图



KFK-190SH/KFF-280SA



电机尺寸/Dimensional Drawing(mm)



电机尺寸/Dimensional Drawing(mm)

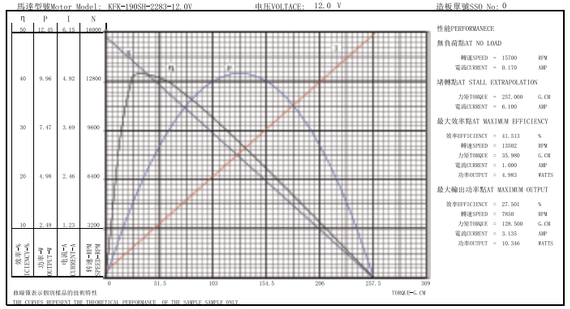
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFK-190SH-2283	12.0	15700	170	14600	20.0	457	5.48	257	6.10
KFK-280SA-18185	12.0	10300	61	9400	20.0	244	2.93	206	2.05

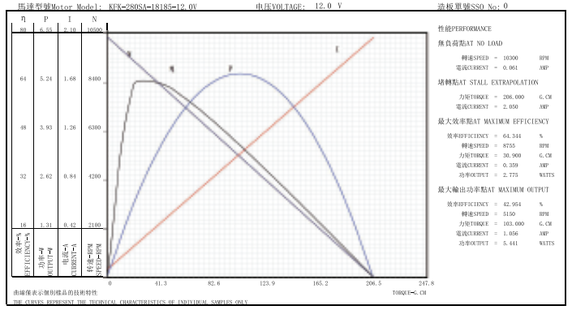
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

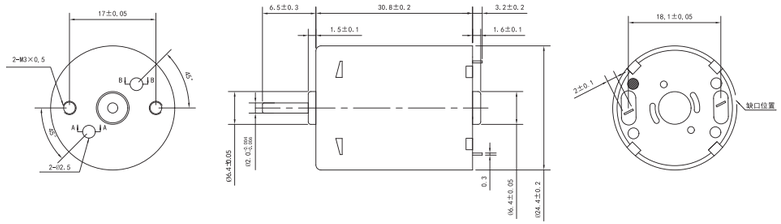
马达全功能测试曲线图



马达全功能测试曲线图



KRK-370SH



电机尺寸/Dimensional Drawing(mm)

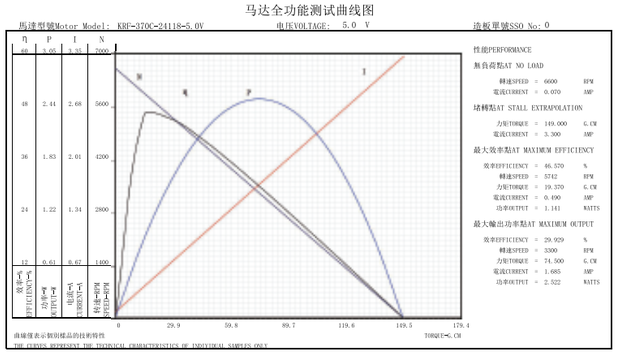
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRF-370C-24118	5.0	6600	70	5800	20.0	365	1.825	149	3.30
KRK-370SH-2690	12.0	16000	190	15100	20.0	570	6.84	320	10.50

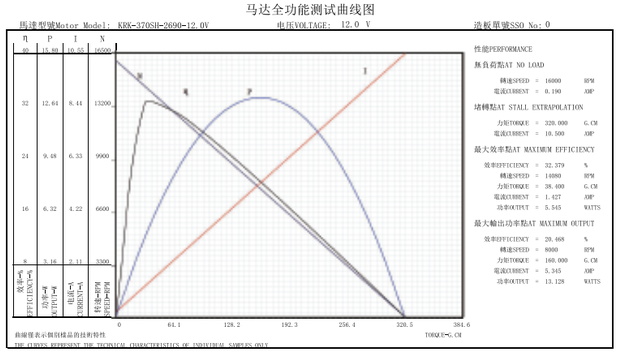
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

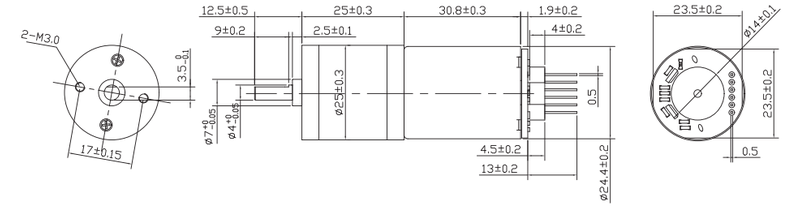
马达全功能测试曲线图



马达全功能测试曲线图



GM25-370SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-370SH-24118	5.0	6650	58	5800	20	351	1.755	156.47	2.30
KRK-370SH-11220	24.0	13600	61	12400	20	192	4.61	226.67	1.50

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM25-370SH-24118

减速比 Reduction ratio	35.5	59	78	103	130	172	226	286	378
减速器长度 Length (mm)	21	23	23	23	25	25	25	27	27
空载转速 No-load speed (rpm)	187	113	85	65	51	39	29	23	18
额定转速 Rated speed (rpm)	163	98	74	56	45	34	26	20	15
额定转矩 Rated torque (kg.cm)	0.35	0.47	0.62	0.82	0.78	1.03	1.35	1.14	1.51
堵转 Stalling Torque (kg.cm)	2.77	3.69	4.88	6.44	6.10	8.07	10.60	8.95	11.82

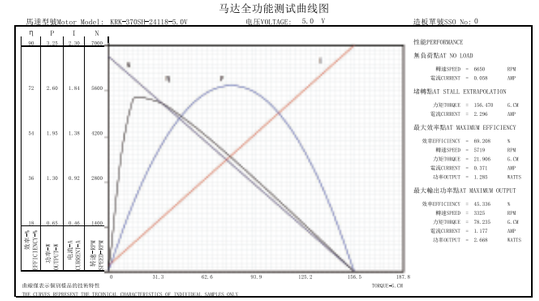
*Gear Motor Technical Data-GM25-370SH-11220

减速比 Reduction ratio	35.5	59	78	103	130	172	226	286	378
减速器长度 Length (mm)	21	23	23	23	25	25	25	27	27
空载转速 No-load speed (rpm)	383	231	174	132	105	79	60	48	36
额定转速 Rated speed (rpm)	349	210	159	120	95	72	55	43	33
额定转矩 Rated torque (kg.cm)	0.35	0.47	0.62	0.82	0.78	1.03	1.35	1.14	1.51
堵转 Stalling Torque (kg.cm)	4.02	5.34	7.07	9.33	8.84	11.69	15.36	12.96	17.13

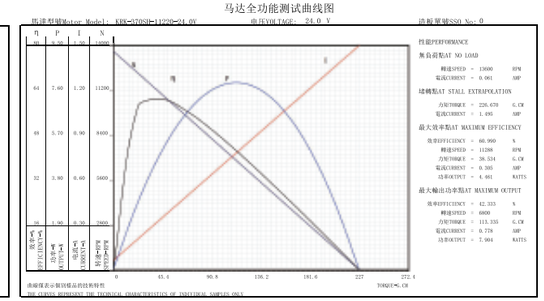
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

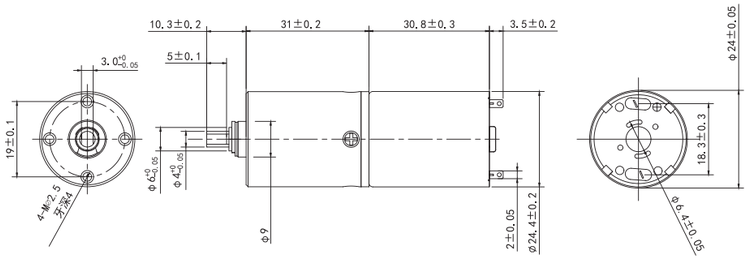
马达全功能测试曲线图



马达全功能测试曲线图



GMP24-370SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-370SH-22135	12.0	10700	120	10200	20	340	4.08	428.00	4.830
KRK-370SH-11220	24.0	13600	61	12400	20	192	4.61	226.67	1.550

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP24-370SH-22135

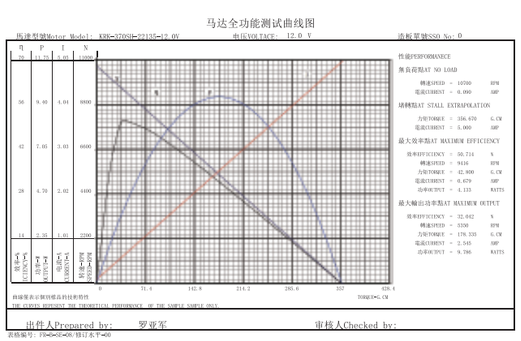
减速比 Reduction ratio	5	25	64	100	125	256	320	400	500	625
减速器长度 Length (mm)	19.5	25.3	31	31	31	36.7	36.7	36.7	36.7	36.7
空载转速 No-load speed (rpm)	2140	428	167	107	86	42	33	27	21	17
额定转速 Rated speed (rpm)	2040	408	159	102	82	40	32	26	20	16
额定转矩 Rated torque (kg.cm)	0.090	0.400	0.896	1.400	1.750	3.072	3.840	4.800	6.000	7.500
堵转 Stalling Torque (kg.cm)	1.926	8.560	19.174	29.960	37.450	65.741	82.176	102.720	128.400	160.500

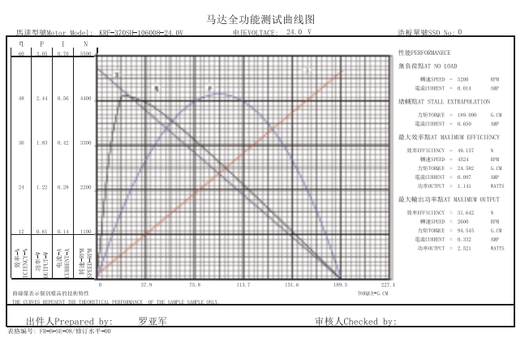
*Gear Motor Technical Data-GMP24-370SH-11220

减速比 Reduction ratio	5	25	64	100	125	256	320	400	500	625
减速器长度 Length (mm)	19.5	25.3	31	31	31	36.7	36.7	36.7	36.7	36.7
空载转速 No-load speed (rpm)	2720	544	213	136	109	53	43	34	27	22
额定转速 Rated speed (rpm)	2480	496	194	124	99	48	39	31	25	20
额定转矩 Rated torque (kg.cm)	0.070	0.400	0.896	1.400	1.750	3.072	3.840	4.800	6.000	7.500
堵转 Stalling Torque (kg.cm)	1.020	4.533	10.155	15.867	19.833	34.816	43.520	54.400	68.000	85.000

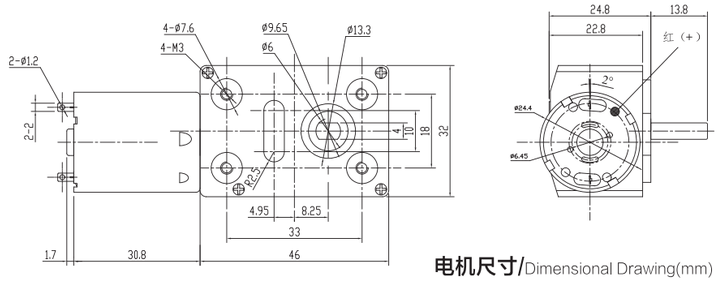
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM3246-370SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-370-18260	12.0	7900	50	6820	32.7	320	3.84	240.0	2.00
KRK-370-10800	24.0	5100	15	4310	26.3	82	1.97	170.0	0.45

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM3246-370-18260

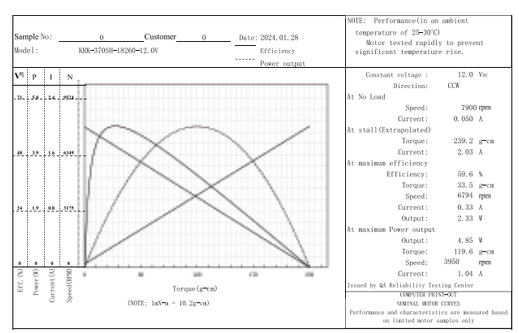
减速比 Reduction ratio	37.3	150	250	324	600	972	1700	2900	
减速器长度 Length (mm)	46	46	46	46	46	46	46	46	
空载转速 No-load speed (rpm)	211.8	52.6	31.6	24.4	13.2	8.1	4.7	2.7	
额定转速 Rated speed (rpm)	182.8	45.4	27.3	21.1	11.4	7.0	4.0	2.5	
额定转矩 Rated torque (kg.cm)	0.73	2.9	4.9	6.4	10.0	10.0	10.0	10.0	
堵转 Stalling Torque (kg.cm)	5.37	15	15	15	15	15	15	15	

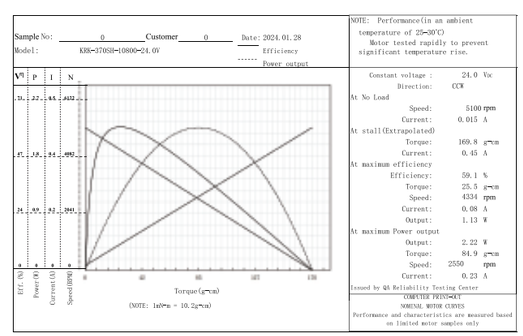
*Gear Motor Technical Data-GM3246-370-10800

减速比 Reduction ratio	37.3	150	250	324	600	972	1700	2900
减速器长度 Length (mm)	46	46	46	46	46	46	46	46
空载转速 No-load speed (rpm)	136.7	34.0	20.4	15.7	8.5	5.3	3.0	2.0
额定转速 Rated speed (rpm)	115.6	29.0	17.2	13.3	7.0	4.4	2.5	2.0
额定转矩 Rated torque (kg.cm)	0.59	2.73	3.95	5.11	9.47	10.00	10.00	10.00
堵转 Stalling Torque (kg.cm)	3.8	15	15	15	15	15	15	15

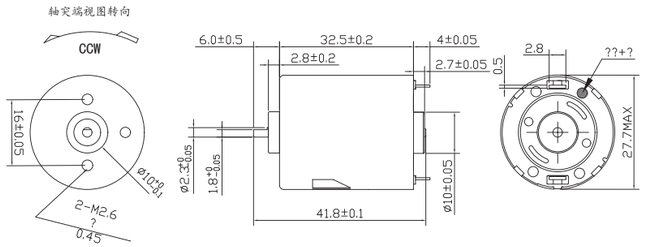
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





KRK-360/365SH



电机尺寸/Dimensional Drawing(mm)

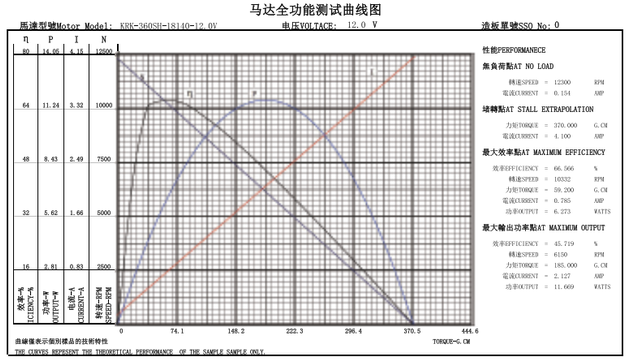
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-360SH-18140	12.0	11300	154	10003	40.0	548	6.58	370.0	4.10
KRK-365SH-18116	24.0	14500	120	13400	40.0	390	9.36	475	4.01

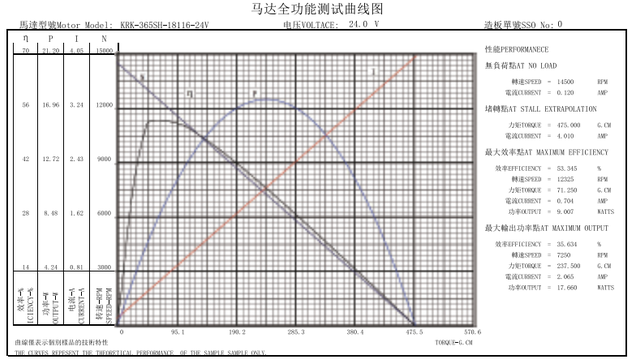
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

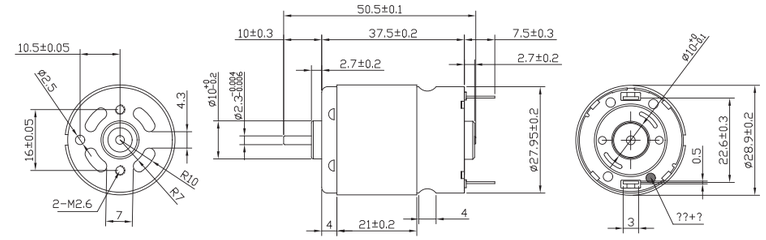
马达全功能测试曲线图



马达全功能测试曲线图



KRK-380/385SH



电机尺寸/Dimensional Drawing(mm)

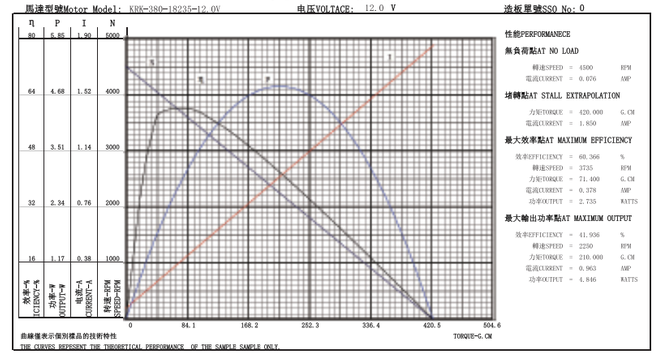
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-380-18235	12.0	4500	76	4020	40.0	233	2.80	420.0	1.85
KRK-385SH-18100	24.0	10600	110	10000	40.0	300	7.20	636	4.00

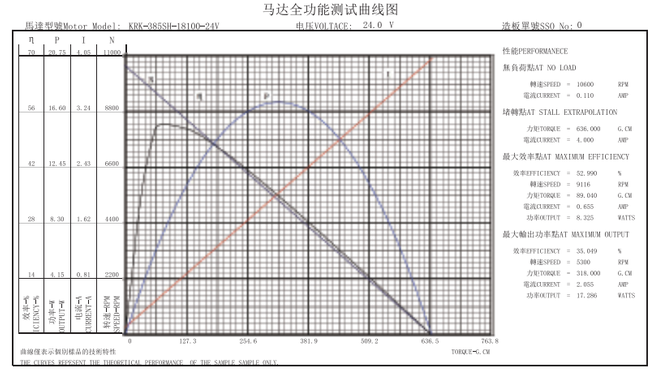
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

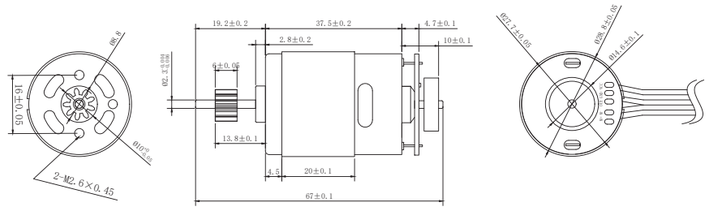
马达全功能测试曲线图



马达全功能测试曲线图



KRK-385SH-EN



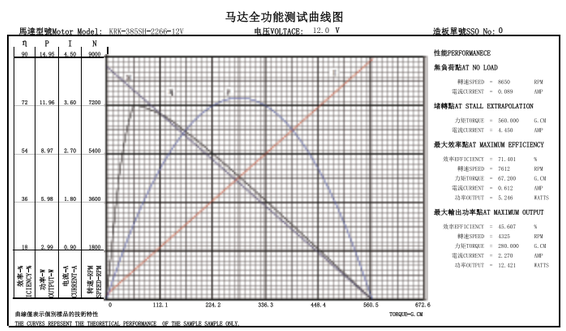
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

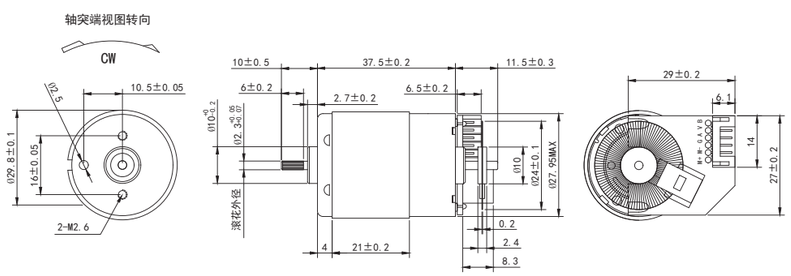
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-385SA-2266	12.0	8650	0.127	7720	50.0	0.50	6.0	560	4.45
KRK-385SH-19110	24.0	10900	0.089	10025	60.0	0.37	8.86	900	4.23

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

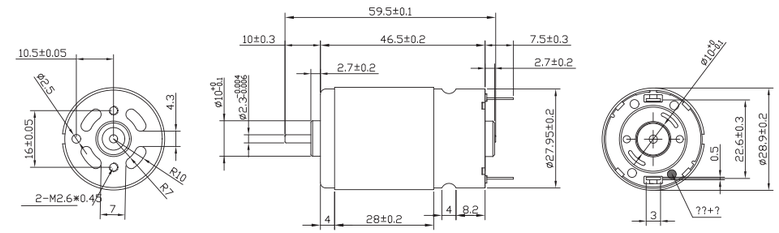


KRK-385SH-EN2



电机尺寸/Dimensional Drawing(mm)

KRK-390/395SH



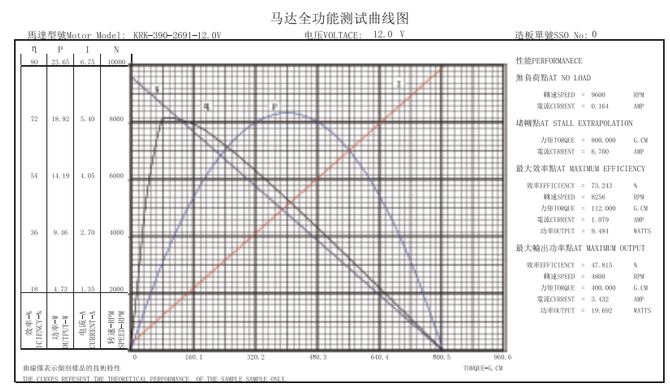
电机尺寸/Dimensional Drawing(mm)

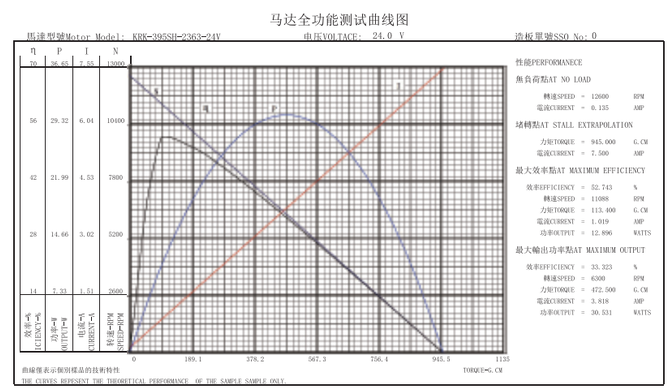
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-390-2691	12.0	9600	164	8762	50.0	562	6.74	800.0	6.70
KRK-395SH-2363	24.0	12600	135	12000	50.0	390	9.36	945	7.50

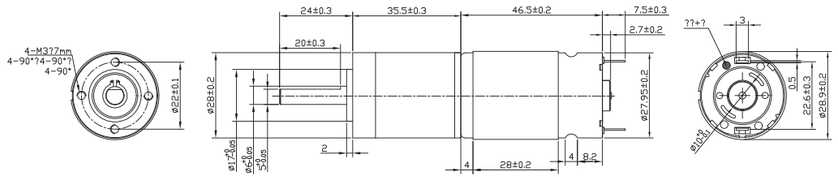
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GMP28-395SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-395SH-1993	12.0	4350	66	3350	100	425	5.1	392	1.720
KRK-395SH-2363	24.0	12600	135	12000	50	390	9.36	945.00	7.500

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP28-395SH-1993

减速比 Reduction ratio	5.2	19.2	27	71	100	139	187.5	263	370	520	731
减速器长度 Length (mm)	27.3	35.4	35.4	43.5	43.5	43.5	54.6	54.6	54.6	54.6	54.6
空载转速 No-load speed (rpm)	837	227	161	61	44	31	23	17	12	8	6.0
额定转速 Rated speed (rpm)	644	174	124	47	34	24	18	13	9	6	4.6
额定转矩 Rated torque (kg.cm)	0.41	1.34	1.89	4.26	6.00	8.34	9.37	13.15	18.50	26.00	36.55
堵转 Stalling Torque (kg.cm)	1.62	5.26	7.39	16.67	23.49	32.65	36.70	51.48	72.42	101.79	143.09

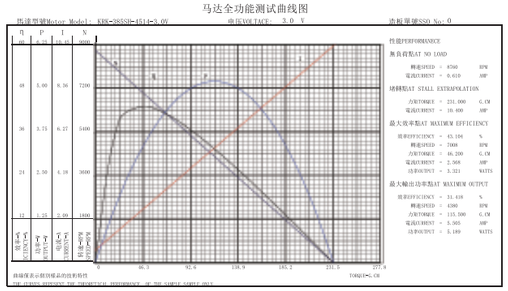
*Gear Motor Technical Data-GMP28-395SH-2363

减速比 Reduction ratio	5.2	19.2	27	71	100	139	187.5	263	370	520	731
减速器长度 Length (mm)	27.3	35.4	35.4	43.5	43.5	43.5	54.6	54.6	54.6	54.6	54.6
空载转速 No-load speed (rpm)	2423	656	467	177	126	91	67	48	34	24	17
额定转速 Rated speed (rpm)	2308	625	444	169	120	86	64	46	32	23	16
额定转矩 Rated torque (kg.cm)	0.20	0.67	0.94	2.13	3.00	4.17	4.68	6.57	9.25	13.00	18.27
堵转 Stalling Torque (kg.cm)	3.93	12.70	17.86	40.25	56.70	78.81	88.59	124.26	174.82	245.70	345.39

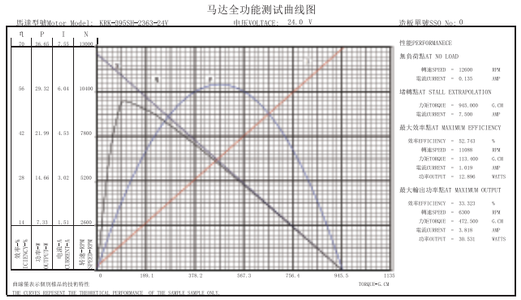
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

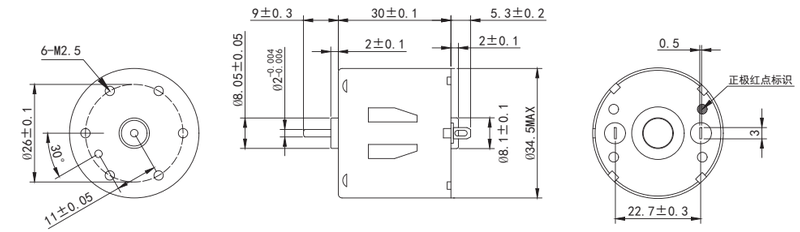
马达全功能测试曲线图



马达全功能测试曲线图



KRK-3530SH



电机尺寸/Dimensional Drawing(mm)

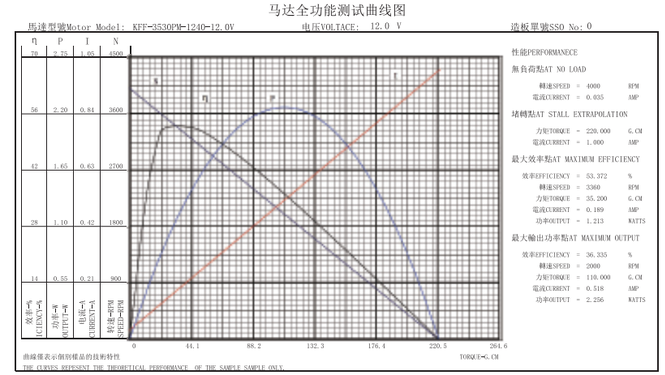
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KFF-3530PM-1240	12.0	4000	35	3300	40.0	180	1.4	220	1.0
KFF-3530PM-2460	24.0	6000	20	5300	50.0	180	3.1	400	1.3

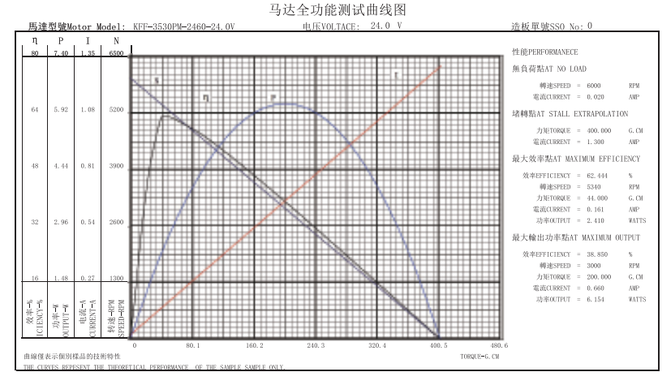
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

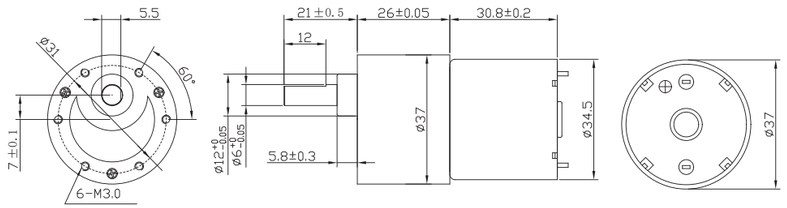
马达全功能测试曲线图



马达全功能测试曲线图



GM37-3530SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-3530SH-1240	12.0	4000	35	3300	40.0	180	2.16	228.57	1.00
KRK-3530SH-2460	24.0	6000	20	5300	50.0	180	4.32	428.57	1.30

齿轮电机技术参数/Gear motor Technical Data

*Gearbox with motor:GM37-3530SH-1240-12.0V

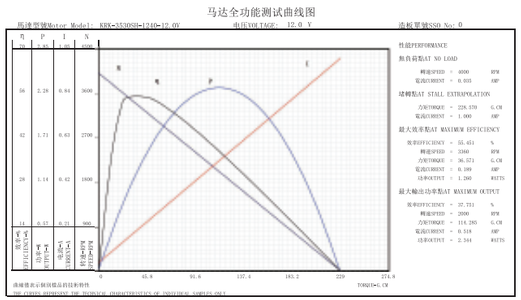
减速比 Reduction ratio	10	30	50	102	150	210	306	450	506	630	810
减速器长度 Length (mm)	17.5	21	23.5	26	26	26	28.5	28.5	28.5	28.5	28.5
空载转速 No-load speed (rpm)	400	133	80	39	27	19	13	9	8	6	4.9
额定转速 Rated speed (rpm)	330	110	66	32	22	16	11	7	7	5	4.1
额定转矩 Rated torque (kg.cm)	0.32	0.84	1.20	2.04	3.00	4.20	4.90	7.20	8.10	10.08	12.96
堵转 Stalling Torque (kg.cm)	1.83	4.80	6.86	11.66	15.00	15.00	15.00	15.00	15.00	15.00	15.00

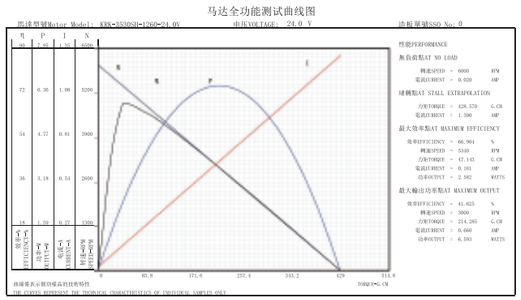
*Gearbox with motor:GM37-3530SH-2460-24.0V

减速比 Reduction ratio	10	30	50	102	150	210	306	450	506	630	810
减速器长度 Length (mm)	17.5	21	23.5	26	26	26	28.5	28.5	28.5	28.5	28.5
空载转速 No-load speed (rpm)	600	200	120	59	40	29	20	13	12	10	7
额定转速 Rated speed (rpm)	530	177	106	52	35	25	17	12	10	8	7
额定转矩 Rated torque (kg.cm)	0.40	1.05	1.50	2.04	3.75	5.25	6.12	9.00	10.12	12.60	16.20
堵转 Stalling Torque (kg.cm)	3.43	9.00	12.86	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

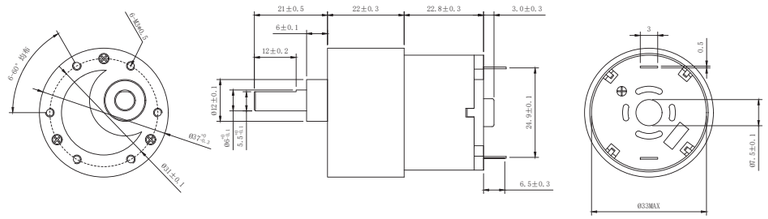
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM37-520PB



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-520PB-11390	6.0	4900	87	4264	20.0	276	1.66	180	1.80
KRK-520PB-16367	12.0	6400	57	5148	40.0	291	3.49	220	1.51

齿轮电机技术参数/Gear motor Technical Data

*Gearbox with motor:GM37-3530SH-1240-12.0V

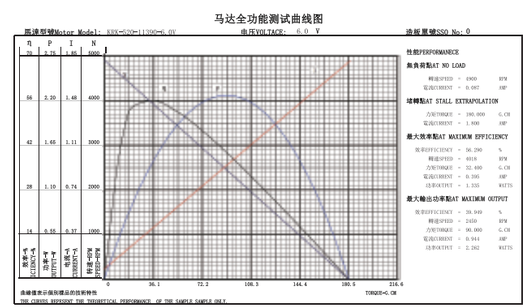
减速比 Reduction ratio	10	30	50	102	150	210	306	450	506	630	810
减速器长度 Length (mm)	17.5	21	23.5	26	26	26	28.5	28.5	28.5	28.5	28.5
空载转速 No-load speed (rpm)	490	163	98	48	33	23	16	11	10	8	6.0
额定转速 Rated speed (rpm)	426	142	85	42	28	20	14	9	8	7	5.3
额定转矩 Rated torque (kg.cm)	0.16	0.42	0.60	1.02	1.50	2.10	2.45	3.60	4.05	5.04	6.48
堵转 Stalling Torque (kg.cm)	1.44	3.78	5.40	9.18	13.50	15.00	15.00	15.00	15.00	15.00	15.00

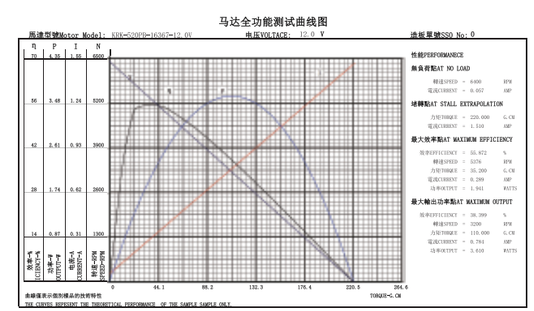
*Gearbox with motor:GM37-3530SH-2460-24.0V

减速比 Reduction ratio	10	30	50	102	150	210	306	450	506	630	810
减速器长度 Length (mm)	17.5	21	23.5	26	26	26	28.5	28.5	28.5	28.5	28.5
空载转速 No-load speed (rpm)	640	213	128	63	43	30	21	14	13	10	8
额定转速 Rated speed (rpm)	515	172	103	50	34	25	17	11	10	8	6
额定转矩 Rated torque (kg.cm)	0.32	0.84	1.20	1.63	3.00	4.20	4.90	7.20	8.10	10.08	12.96
堵转 Stalling Torque (kg.cm)	1.76	4.62	6.60	8.98	15.00	15.00	15.00	15.00	15.00	15.00	15.00

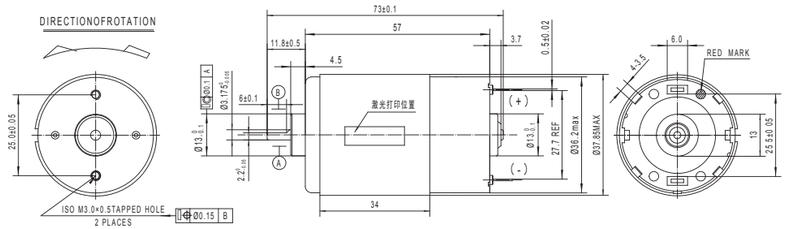
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





KRK-550/555SH



电机尺寸/Dimensional Drawing(mm)

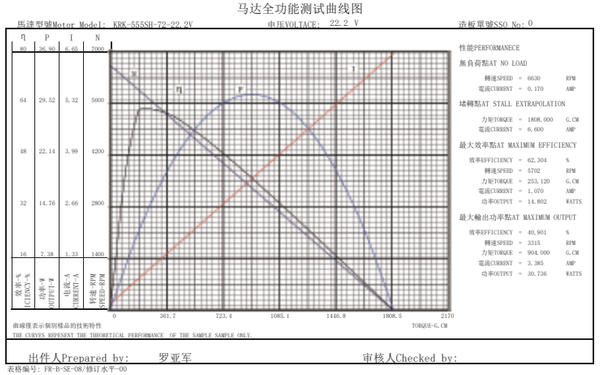
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-550SH-75L	18.0	20900	1140	19500	200.0	3680	66.24	2687	35.60
KRK-555SH-72L	22.2	6630	170	6300	100.0	470	10.434	1808	6.60

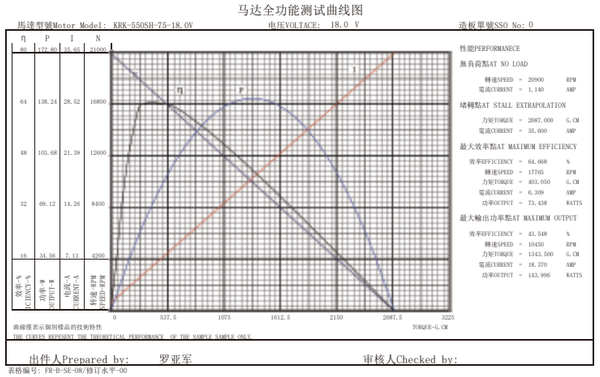
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve

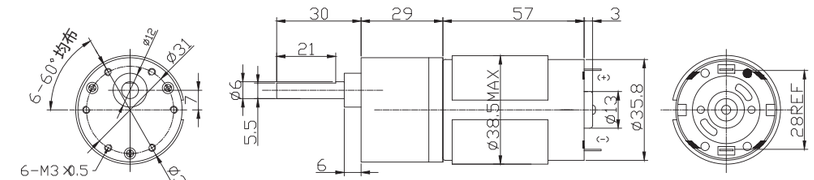
马达全功能测试曲线图



马达全功能测试曲线图



GM37-555SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-555SH-1250	12.0	5000	250	4300	200.0	1400	8.80	1430.0	8.50
KRK-555SH-2440	24.0	4000	150	3200	200.0	800	6.60	1000.0	3.50

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM37-555SH-1250

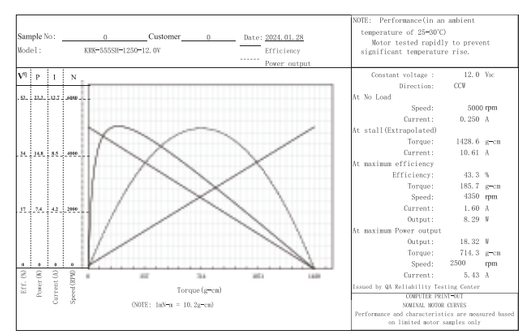
减速比 Reduction ratio	6	10	19	30	56	90	169	270	506
空载转速 No-load speed (rpm)	800	480	250	160	85	53	28	18	10
额定转速 Rated speed (rpm)	700	430	225	145	77	48	26	16	9
额定转矩 Rated torque (kg.cm)	1.0	1.8	2.7	4.2	6.7	8.0	8.0	8.0	8.0

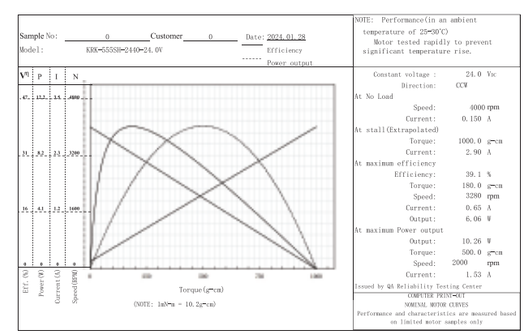
*Gear Motor Technical Data-GM37-555SH-2440

减速比 Reduction ratio	6	10	19	30	56	90	169	270	506
空载转速 No-load speed (rpm)	600	380	200	120	65	45	24	15	8
额定转速 Rated speed (rpm)	520	320	165	105	56	36	21	14	7
额定转矩 Rated torque (kg.cm)	1.0	1.8	2.7	4.2	6.7	8.0	8.0	8.0	8.0

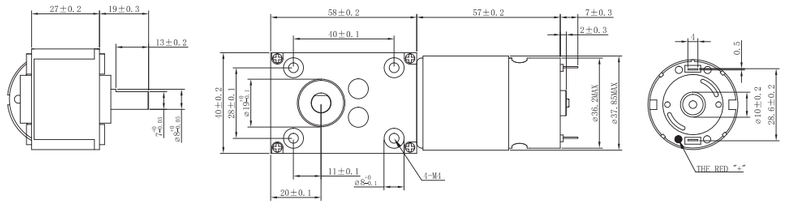
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GM5840-555SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-555SH-1250	12.0	5000	250	4300	200.0	1400	8.8	1430	8.5
KRK-555SH-2440	24.0	4000	150	3200	200.0	800	6.6	1000	3.5

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM5840-555SH-1250

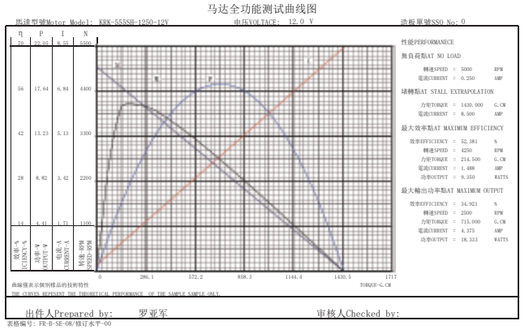
减速比 Reduction ratio	81	135	207	251	405	621			
空载转速 No-load speed (rpm)	60	35	24	20	12	8			
额定转速 Rated speed (rpm)	50	32	20	18	11	7			
额定转矩 Rated torque (kg.cm)	10	10	10	10	10	10			

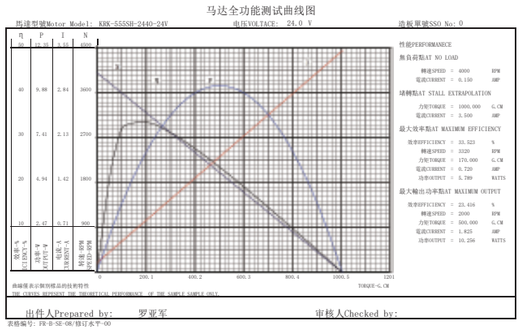
*Gear Motor Technical Data-GM5840-555SH-2440

减速比 Reduction ratio	81	135	207	251	405	621			
空载转速 No-load speed (rpm)	47	28	19	16	10	6			
额定转速 Rated speed (rpm)	40	24	16	13	9	5			
额定转矩 Rated torque (kg.cm)	10	10	10	10	10	10			

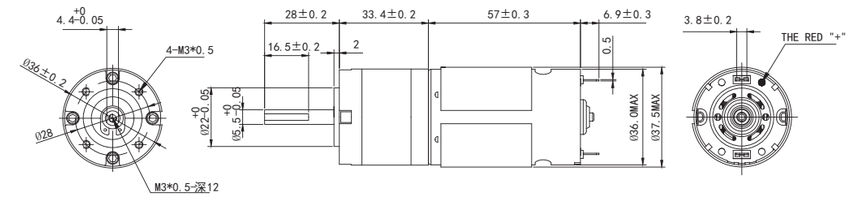
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GMP36-555SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-555SH-1250	12.0	5000	250	4300	200.0	1700	9.00	1640.0	12.60
KRK-555SH-2440	24.0	4000	150	3200	200.0	700	6.40	1000.0	2.70

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP36-555SH-1250

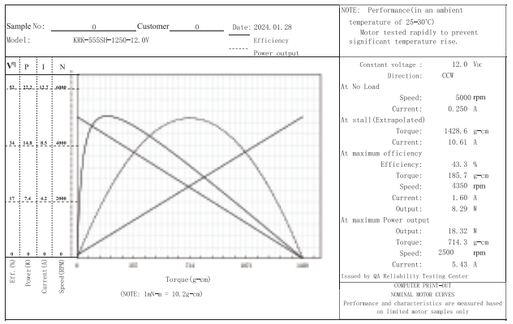
减速比 Reduction ratio	4	19	51	100	139	189	264	369	516
空载转速 No-load speed (rpm)	1200	250	95	48	35	25	19	13	10
额定转速 Rated speed (rpm)	1100	230	85	45	31	23	16	12	9
额定转矩 Rated torque (kg.cm)	0.6	3.0	6.0	12.0	15.0	21.0	26.0	30.0	30.0

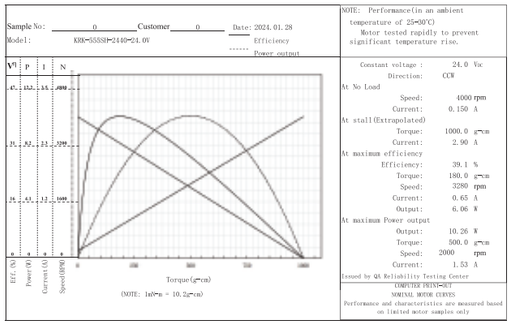
*Gear Motor Technical Data-GMP36-555SH-2440

减速比 Reduction ratio	4	19	51	100	139	189	264	369	516
空载转速 No-load speed (rpm)	980	200	8	38	28	21	15	10	8
额定转速 Rated speed (rpm)	750	150	60	30	21	16	13	9	7
额定转矩 Rated torque (kg.cm)	0.6	3.0	6.0	12.0	15.0	21.0	26.0	30.0	30.0

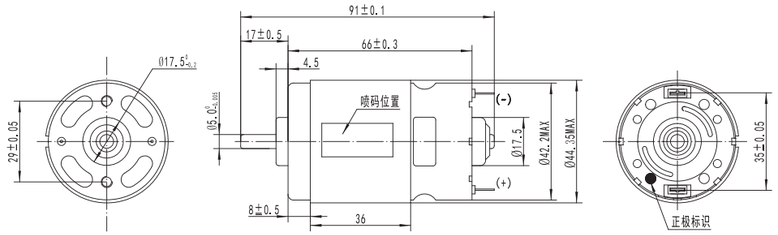
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





KRK-775SH



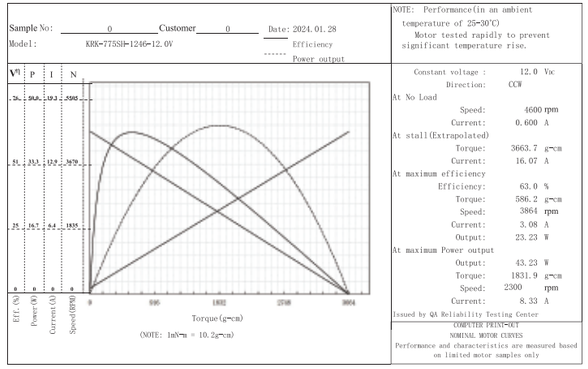
电机尺寸/Dimensional Drawing(mm)

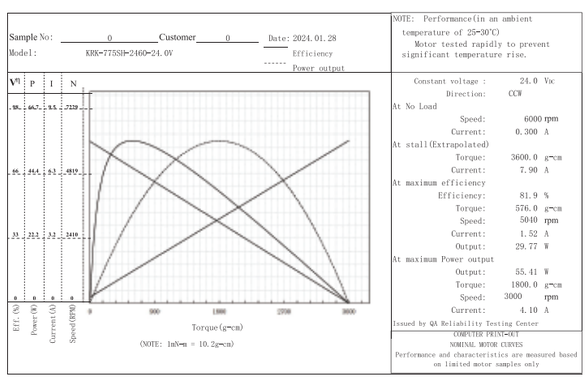
电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	启动电压 Start voltage	空载 No-load 转速 Speed	空载 No-load 电流 Current	启动转矩 Starting torque	堵转 Stall 转速 Speed	堵转 Stall 电流 Current
	VDC	V	r/min	mA	g.cm	r/min	A
KRK-775SH	12.0	1.1	8681	1.21	3592	7956	3.80
KRK-775SH	24.0	1.3	2952	0.10	1406	2322	0.60

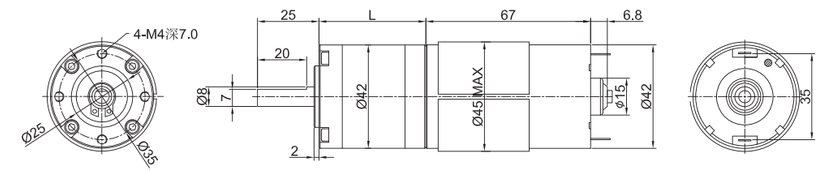
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





GMP42-775SH



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load 转速 Speed	空载 No-load 电流 Current	负载 AT Maximum Efficiency 转速 Speed	负载 AT Maximum Efficiency 转矩 Torque	负载 AT Maximum Efficiency 电流 Current	功率 Power 输出功率 Output Power	堵转 Stall 转矩 Torque	堵转 Stall 电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KRK-775SH-1246	12.0	4600	600	3470	900.0	4400	32	3600	16.0
KRK-775SH-2460	24.0	6000	300	4500	900.0	2200	40	3600	7.5

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP42-775SH-1246

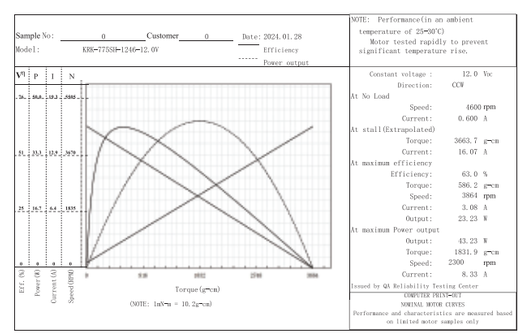
减速比 Reduction ratio	4	19	51	100	139	189	264	369	516
空载转速 No-load speed (rpm)	1100	220	85	44	32	24	17	12	9
额定转速 Rated speed (rpm)	870	185	70	35	25	19	14	11	8
额定转矩 Rated torque (kg.cm)	2.8	13.0	26.0	50.0	60.0	60.0	60.0	60.0	60.0

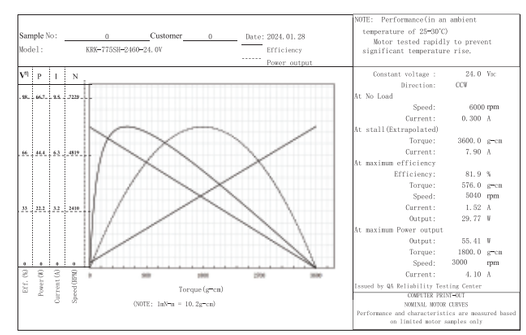
*Gear Motor Technical Data-GMP42-775SH-2460

减速比 Reduction ratio	4	19	51	100	139	189	264	369	516
空载转速 No-load speed (rpm)	1400	295	110	58	42	32	23	16	12
额定转速 Rated speed (rpm)	1130	235	90	45	32	24	18	14	11
额定转矩 Rated torque (kg.cm)	2.8	13.0	26.0	50.0	60.0	60.0	60.0	60.0	60.0

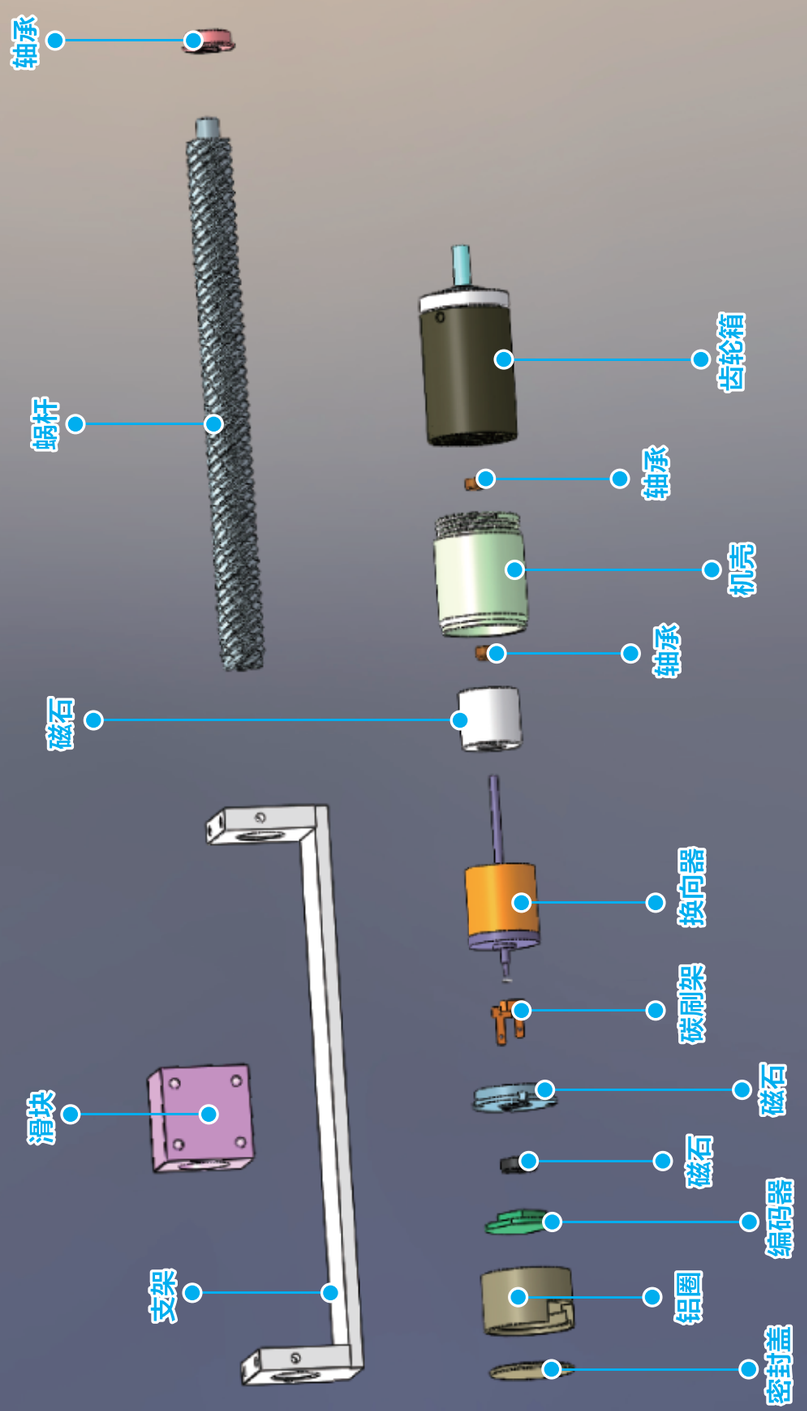
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



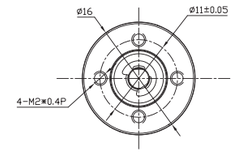


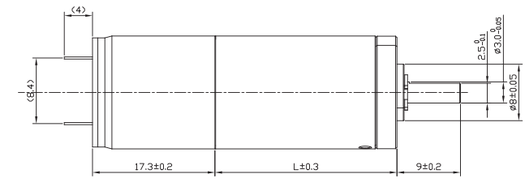
直流空心杯电机结构图



GMP16-1620滚齿行星

TSL





电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
1620-1238-25.1L	6.0	9900	26	8300	10	210	1.26	60.0	1.165
1620-0970-25.1L	12.0	10000	18	9400	5	65	0.78	75.0	0.750
1620-07Z99-25.1L	12.0	7000	7	6350	5	38	0.46	56.0	0.413

齿轮电机技术参数/Gear motor Technical Data

*Gearbox with motor: GMP16-1620-1238-25.1L-6.0V

减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27.4	27.4	27.4	31.05
空载转速 No-load speed (rpm)	2475	619	187	118	63	43	35	25	18	12	9.8
额定转速 Rated speed (rpm)	2075	519	157	99	53	36	29	21	15	10	8.2
额定扭力 (kg.cm)	0.80	1.20	1.60	1.60	1.60	2.00	2.00	2.00	2.00	2.00	2.40
瞬间扭力 (kg.cm)	2.40	3.60	4.80	4.80	4.80	6.00	6.00	6.00	6.00	6.00	7.20

* Gearbox with motor:GMP16-1620-0970-25.1L-12.0V

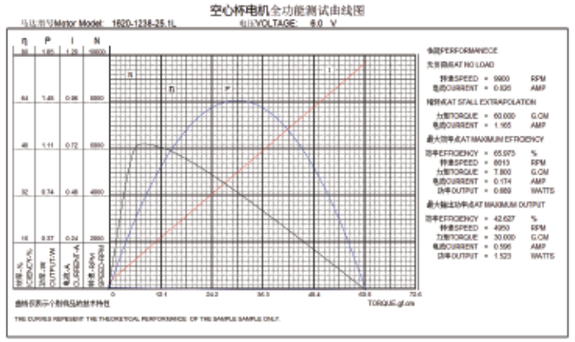
减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长度 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27	27	27	31
空载转速 No-load speed (rpm)	2500	625	189	119	64	43	35	26	18	12	10
额定转速 Rated speed (rpm)	2350	588	177	112	60	41	33	24	17	11	9
额定扭力 (kg.cm)	0.80	1.20	1.60	1.60	1.60	2.00	2.00	2.00	2.00	2.00	2.40
瞬间扭力 (kg.cm)	2.40	3.60	4.80	4.80	4.80	6.00	6.00	6.00	6.00	6.00	7.20

*Gearbox with motor:GMP16-1620-07Z99-25.1L-12.0V

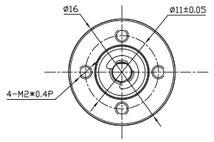
减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长度 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27.4	27.4	27.4	31.05
空载转速 No-load speed (rpm)	1750	438	132	83	45	30	25	18	12	8	7
额定转速 Rated speed (rpm)	1588	397	120	76	40	27	22	16	11	7	6
额定扭力 (kg.cm)	0.80	1.20	1.60	1.60	1.60	2.00	2.00	2.00	2.00	2.00	2.40
瞬间扭力 (kg.cm)	2.40	3.60	4.80	4.80	4.80	6.00	6.00	6.00	6.00	6.00	7.20

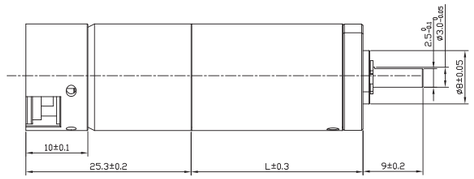
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



GMP16-1620-EN





电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
1620-1238-25.1L	6.0	9900	26	8300	10	210	1.26	60.0	1.165
1620-0970-25.1L	12.0	10000	18	9400	5	65	0.78	75.0	0.750
1620-07Z99-25.1L	12.0	7000	7	6350	5	38	0.46	56.0	0.413

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP16-1620-1238-25.1L-6.0V

减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27.4	27.4	27.4	31.05
空载转速 No-load speed (rpm)	2475	619	187	118	63	43	35	25	18	12	9.8
额定转速 Rated speed (rpm)	2075	519	157	99	53	36	29	21	15	10	8.2
额定扭力 (kg.cm)	0.8	1.2	1.6	1.6	1.6	2.0	2.0	2.0	2.0	2.0	2.4
瞬间扭力 (kg.cm)	2.4	3.6	4.8	4.8	4.8	6.0	6.0	6.0	6.0	6.0	7.2

*Gear Motor Technical Data-GMP16-1620-0970-25.1L-12.0V

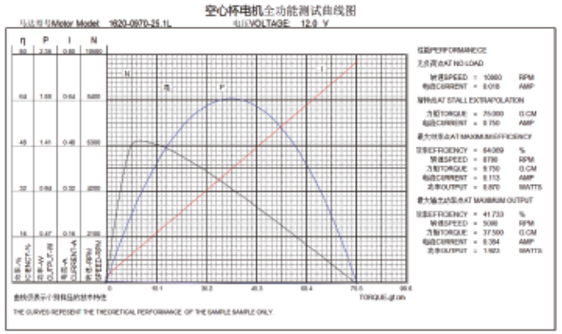
减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27	27	27	31
空载转速 No-load speed (rpm)	2500	625	189	119	64	43	35	26	18	12	10
额定转速 Rated speed (rpm)	2350	588	177	112	60	41	33	24	17	11	9
额定扭力 (kg.cm)	0.8	1.2	1.6	1.6	1.6	2.0	2.0	2.0	2.0	2.0	2.4
瞬间扭力 (kg.cm)	2.4	3.6	4.8	4.8	4.8	6.0	6.0	6.0	6.0	6.0	7.2

*Gear Motor Technical Data-GMP16-1620-07Z99-25.1L-12.0V

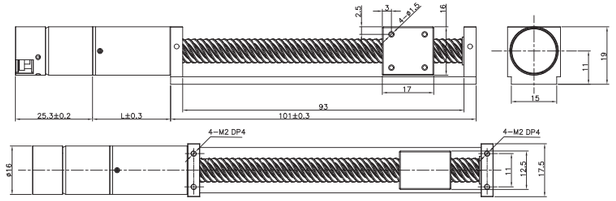
减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27.4	27.4	27.4	31.05
空载转速 No-load speed (rpm)	1750	438	132	83	45	30	25	18	12	8	7
额定转速 Rated speed (rpm)	1588	397	120	76	40	27	22	16	11	7	6
额定扭力 (kg.cm)	0.8	1.2	1.6	1.6	1.6	2	2	2	2	2	2.4
瞬间扭力 (kg.cm)	2.4	3.6	4.8	4.8	4.8	6.0	6.0	6.0	6.0	6.0	7.2

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



GMP16-1620



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
1620-1238-25.1L	6.0	9900	26	8300	10	210	1.26	60.0	1.165
1620-0970-25.1L	12.0	10000	18	9400	5	65	0.78	75.0	0.750
1620-07Z99-25.1L	12.0	7000	7	6350	5	38	0.46	56.0	0.413

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP16-1620-1238-25.1L-6.0V

减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27.4	27.4	27.4	31.05
空载转速 No-load speed (rpm)	2475	619	187	118	63	43	35	25	18	12	9.8
额定转速 Rated speed (rpm)	2075	519	157	99	53	36	29	21	15	10	8.2
额定扭力 (kg.cm)	0.8	1.2	1.6	1.6	1.6	2.0	2.0	2.0	2.0	2.0	2.4
瞬间扭力 (kg.cm)	2.4	3.6	4.8	4.8	4.8	6.0	6.0	6.0	6.0	6.0	7.2

*Gear Motor Technical Data-GMP16-1620-0970-25.1L-12.0V

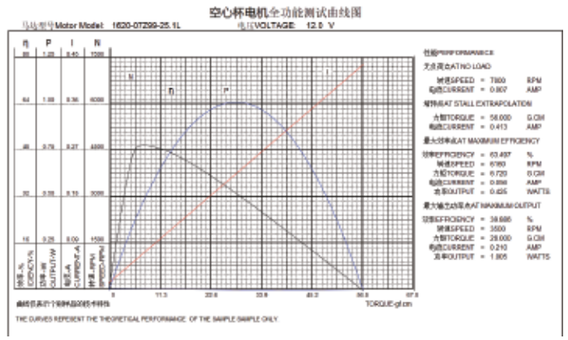
减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27	27	27	31
空载转速 No-load speed (rpm)	2500	625	189	119	64	43	35	26	18	12	10
额定转速 Rated speed (rpm)	2350	588	177	112	60	41	33	24	17	11	9
额定扭力 (kg.cm)	0.8	1.2	1.6	1.6	1.6	2.0	2.0	2.0	2.0	2.0	2.4
瞬间扭力 (kg.cm)	2.4	3.6	4.8	4.8	4.8	6.0	6.0	6.0	6.0	6.0	7.2

*Gear Motor Technical Data-GMP16-1620-07Z99-25.1L-12.0V

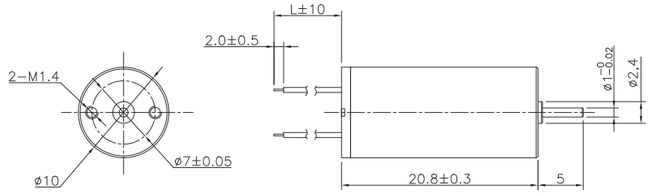
减速比 Reduction ratio	4	16	53	84	157	231	284	390	561	850	1014
减速器长 Length (mm)	16.35	20	23.75	23.75	23.75	27.4	27.4	27.4	27.4	27.4	31.05
空载转速 No-load speed (rpm)	1750	438	132	83	45	30	25	18	12	8	7
额定转速 Rated speed (rpm)	1588	397	120	76	40	27	22	16	11	7	6
额定扭力 (kg.cm)	0.8	1.2	1.6	1.6	1.6	2	2	2	2	2	2.4
瞬间扭力 (kg.cm)	2.4	3.6	4.8	4.8	4.8	6.0	6.0	6.0	6.0	6.0	7.2

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



KS-1020



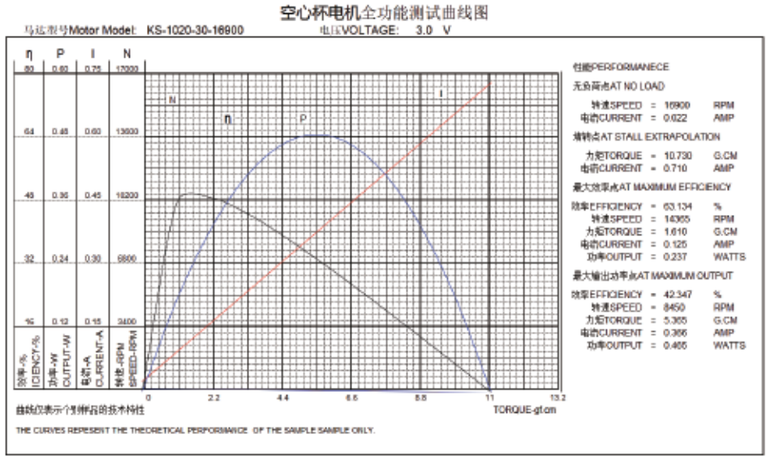
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

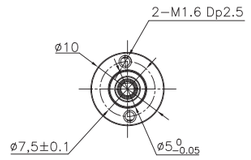
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1020-30-16900	3.0	16900	22	14400	1.6	125	0.47	10.73	0.71
KS-1020-45-25400	4.5	25400	35	21500	2.5	194	1.03	16.51	1.07
KS-1020-60-33300	6	33300	44	23300	3.35	251	1.94	22.41	1.43

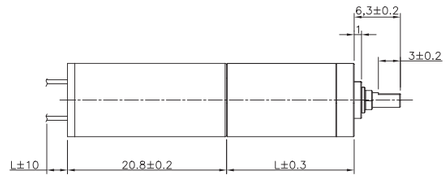
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



GMP10-1020





电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1020-30-16900	3.0	16900	22	14400	1.6	125	0.47	10.73	0.71
KS-1020-45-25400	4.5	25400	35	21500	2.5	194	1.03	16.51	1.07
KS-1020-60-33300	6	33300	44	23300	3.35	251	1.94	22.41	1.43

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP10-1020

减速比 Reduction ratio	4	13	18	28	55	70	121	168	276	546	645
减速器长 Length (mm)	11.1	14.3	14.3	14.3	17.5	17.5	17.5	20.7	20.7	20.7	20.7
空载转速 No-load speed (rpm)	4225	1300	939	604	307	241	140	101	61	31	26.2
额定转速 Rated speed (rpm)	3600	1108	800	514	262	206	119	86	52	26	22.3
额定扭力 (kg.cm)	0.01	0.02	0.02	0.03	0.07	0.08	0.15	0.18	0.30	0.52	0.70
瞬间扭力 (kg.cm)	0.04	0.12	0.16	0.25	0.44	0.87	0.84	1.00	1.60	3.00	3.00

*Gear Motor Technical Data-GMP10-1020

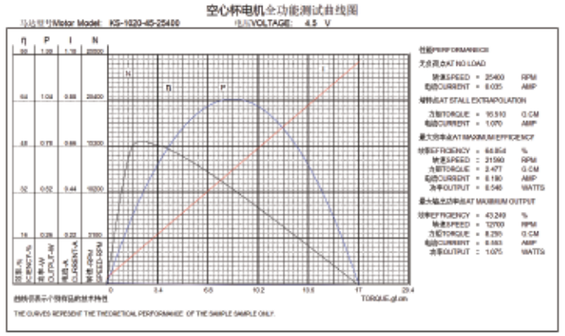
减速比 Reduction ratio	4	13	18	28	55	70	121	168	276	546	645
减速器长 Length (mm)	11.1	14.3	14.3	14.3	17.5	17.5	17.5	20.7	20.7	20.7	20.7
空载转速 No-load speed (rpm)	6350	1954	1411	907	462	363	210	151	92	47	39
额定转速 Rated speed (rpm)	5375	1654	1194	768	391	307	178	128	78	39	33
额定扭力 (kg.cm)	0.01	0.02	0.03	0.05	0.11	0.14	0.21	0.30	0.48	0.81	0.90
瞬间扭力 (kg.cm)	0.05	0.18	0.23	0.35	0.70	0.89	1.30	1.80	2.60	3.00	3.00

*Gear Motor Technical Data-GMP10-1020

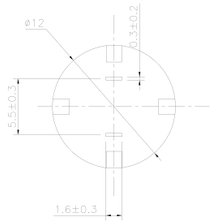
减速比 Reduction ratio	4	13	18	28	55	70	121	168	276	546	645
减速器长 Length (mm)	11.1	14.3	14.3	14.3	17.5	17.5	17.5	20.7	20.7	20.7	20.7
空载转速 No-load speed (rpm)	8325	2562	1850	1189	605	476	275	198	121	61	52
额定转速 Rated speed (rpm)	5825	1792	1294	832	424	333	193	139	84	43	36
额定扭力 (kg.cm)	0.01	0.02	0.05	0.08	0.17	0.19	0.33	0.47	0.67	1.34	1.40
瞬间扭力 (kg.cm)	0.08	0.23	0.32	0.50	0.96	1.23	2.00	2.50	3.00	3.00	3.00

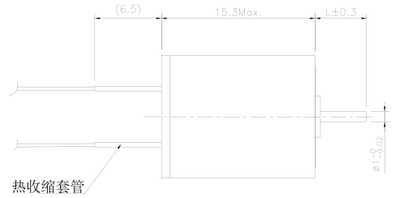
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



KS-1215





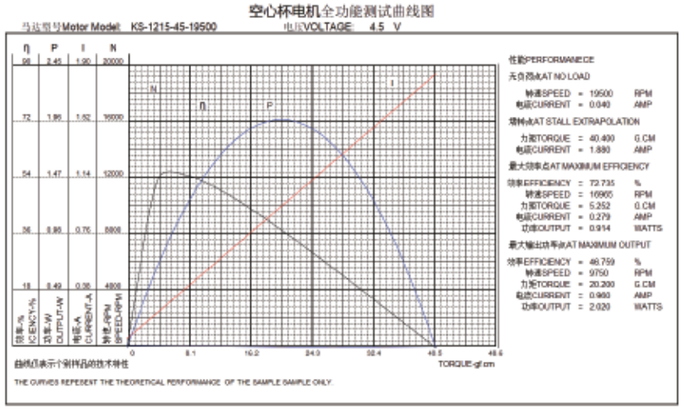
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

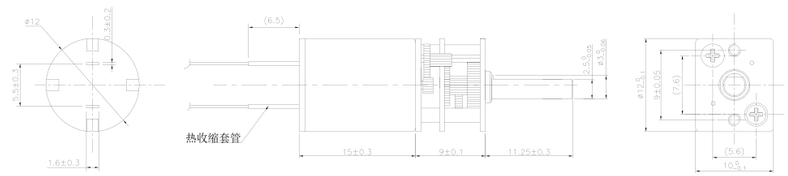
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1215-45-19500	4.5	19500	40	15300	8.0	400	1.8	40	1.88
KS-1215-60-22900	6.0	22900	40	19250	8.0	360	2.2	51	2.07
KS-1215-74-27460	7.4	27460	50	23340	8.0	360	2.7	53	2.13
KS-1215-80-32300	8.0	32300	60	27850	8.0	400	3.2	57	2.48

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



GM12-1215



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1215-45-19500	4.5	19500	40	15300	8.0	400	1.8	40	1.88
KS-1215-60-22900	6.0	22900	40	19250	8.0	360	2.2	51	2.07
KS-1215-74-27460	7.4	27460	50	23340	8.0	360	2.7	53	2.13

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM12-1215

减速比 Reduction ratio	10	20	30	50	100	150	210	298	380
减速器长 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	1950	975	650	390	195	130	93	65	51
额定转速 Rated speed (rpm)	1530	765	510	306	153	102	73	51	40
额定扭力 (kg.cm)	0.07	0.14	0.20	0.45	0.70	1.00	1.40	2.00	2.50
瞬间扭力 (kg.cm)	0.20	0.30	0.50	0.70	1.40	1.80	2.00	3.00	3.00

*Gear Motor Technical Data-GM12-1215

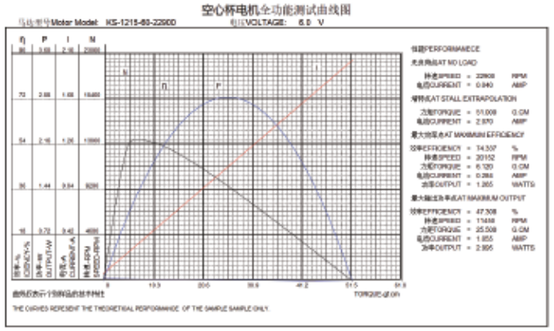
减速比 Reduction ratio	10	20	30	50	100	150	210	298	380
减速器长 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	2290	1145	763	458	229	153	109	77	60
额定转速 Rated speed (rpm)	1925	963	642	385	193	128	92	65	51
额定扭力 (kg.cm)	0.05	0.10	0.15	0.25	0.50	0.70	1.00	1.40	2.00
瞬间扭力 (kg.cm)	0.10	0.20	0.30	0.50	1.00	1.50	2.00	3.00	3.00

*Gear Motor Technical Data-GM12-1215

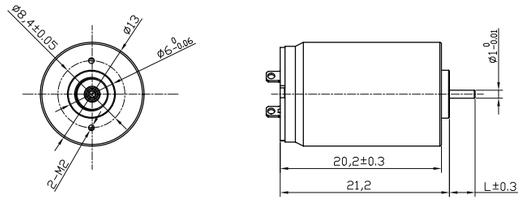
减速比 Reduction ratio	10	20	30	50	100	150	210	298	380
减速器长 Length (mm)	9	9	9	9	9	9	9	9	9
空载转速 No-load speed (rpm)	2746	1373	915	549	275	183	131	92	72
额定转速 Rated speed (rpm)	2334	1167	778	467	233	156	111	78	61
额定扭力 (kg.cm)	0.09	0.18	0.18	0.28	0.98	1.30	1.80	1.80	2.00
瞬间扭力 (kg.cm)	0.20	0.40	0.60	1.00	2.00	2.20	2.50	3.00	3.00

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



KS-1320



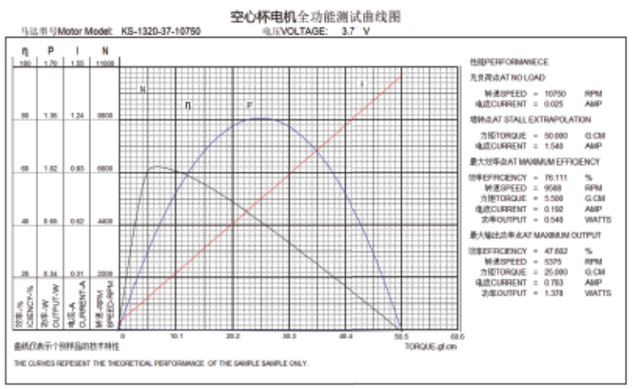
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

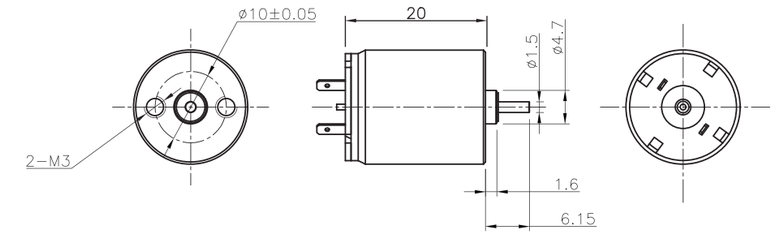
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1320-37-10750	3.7	10750	25	8150	12.2	390	1.4	50	1.54
KS-1320-50-15700	5.0	15700	35	13500	12.0	430	2.1	86	2.86
KS-1320-60-12260	6.0	12260	40	9930	12.0	290	1.7	62	1.37
KS-1320-80-8650	8.0	8650	20	7500	5.7	70	0.56	45	0.51

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



KS-1620



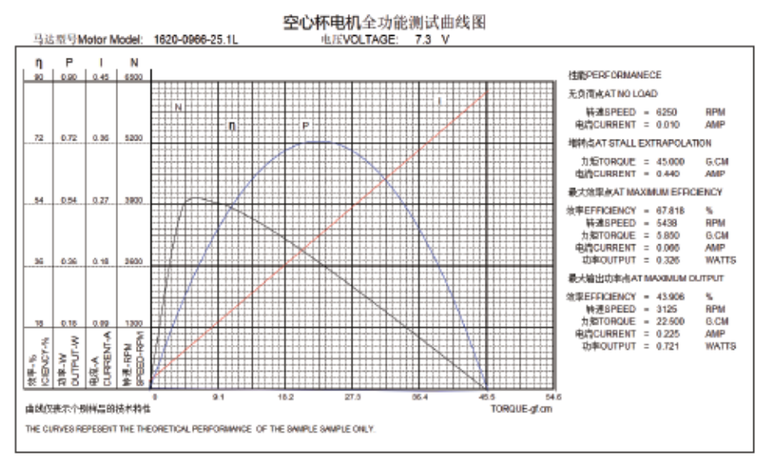
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

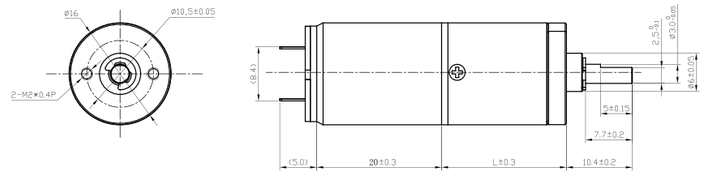
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
1620-0966-25.1L	7.3	6250	10	5500	5.0	58	0.4234	45	0.44
1620-1049-25.1L	7.4	8750	18	7100	10.0	155	1.147	49	0.68
1620-0969-25.1L	12.0	10000	18	8750	10.0	110	1.32	75	0.74

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



GMP16-1620



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
1620-1238-25.1L	6.0	9900	26	8300	10	210	1.26	60.0	1.165
1620-0970-25.1L	12.0	10000	18	9400	5	65	0.78	75.0	0.750
1620-07Z99-25.1L	12.0	7000	7	6350	5	38	0.46	56.0	0.413

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP16-1620-1238-25.1L-6.0V

减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	2475	619	413	275	155	93	51	39	29	22	17.2
额定转速 Rated speed (rpm)	2075	519	346	231	130	78	42	32	25	18	14.4
额定扭力 (kg.cm)	0.04	0.14	0.19	0.29	0.51	0.75	1.27	1.28	1.68	2.28	2.59
瞬间扭力 (kg.cm)	0.22	0.77	1.15	1.73	3.07	4.49	6.00	6.00	6.00	6.00	6.00

*Gear Motor Technical Data-GMP16-1620-0970-25.1L-12.0V

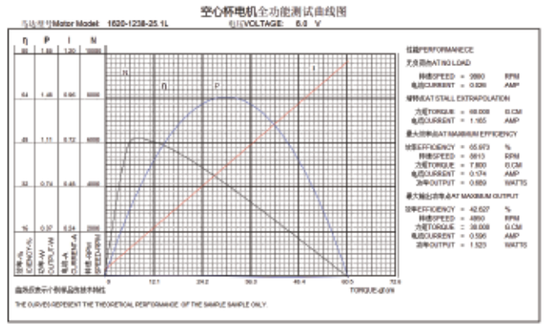
减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	2500	625	417	278	156	93	51	39	30	22	17
额定转速 Rated speed (rpm)	2350	588	392	261	147	88	48	37	28	21	16
额定扭力 (kg.cm)	0.02	0.07	0.10	0.15	0.25	0.38	0.64	0.64	0.84	1.14	1.30
瞬间扭力 (kg.cm)	0.27	0.96	1.44	2.16	3.84	5.61	6.00	6.00	6.00	6.00	6.00

*Gear Motor Technical Data-GMP16-1620-07Z99-25.1L-12.0V

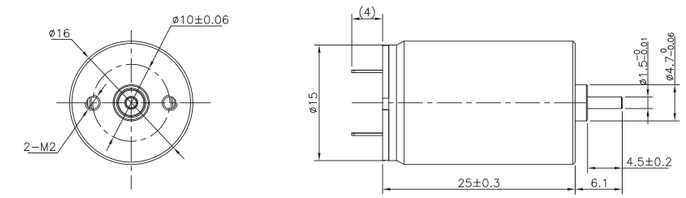
减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	1750	438	292	194	109	65	36	27	21	15	12
额定转速 Rated speed (rpm)	1588	397	265	176	99	59	32	25	19	14	11
额定扭力 (kg.cm)	0.02	0.07	0.10	0.15	0.25	0.38	0.64	0.64	0.84	1.14	1.30
瞬间扭力 (kg.cm)	0.20	0.80	1.08	1.61	2.50	4.19	5.49	6.00	6.00	6.00	6.00

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



KS-1625



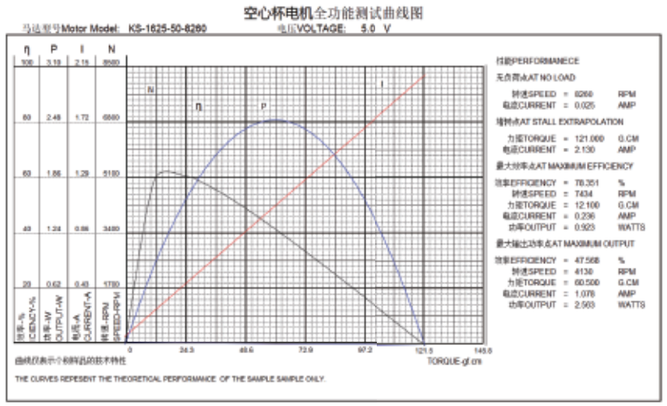
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

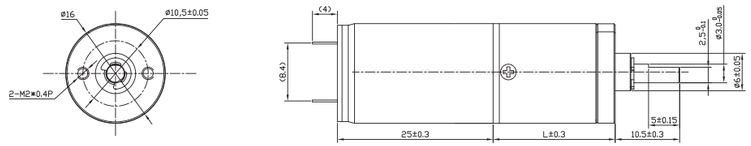
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1625-50-8260	5.0	8260	25	6880	20.0	372	1.9	121	2.13
KS-1625-60-6400	6.0	6400	10	5334	15.0	176	1.1	90	1.02
KS-1625-120-10050	12.0	10050	15	8930	21.0	200	2.4	188	1.66

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



GMP16-1625



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1625-50-8260	5.0	8260	25	6880	20.0	372	1.9	121	2.13
KS-1625-60-6400	6.0	6400	10	5334	15.0	176	1.1	90	1.02
KS-1625-120-10050	12.0	10050	15	8930	21.0	200	2.4	188	1.66

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP16-1625

减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	2065	516	344	229	129	77	42	32	25	18	14
额定转速 Rated speed (rpm)	1720	430	287	191	108	64	35	27	20	15	12
额定扭力 (kg.cm)	0.06	0.26	0.38	0.50	0.90	1.40	2.35	3.10	3.40	4.50	5.76
瞬间扭力 (kg.cm)	0.44	1.55	2.32	3.05	5.42	6.00	6.00	6.00	6.00	6.00	6.00

*Gear Motor Technical Data-GMP16-1625

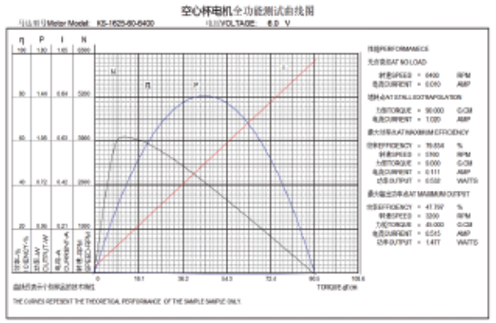
减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	1600	400	267	178	100	60	33	25	19	14	11
额定转速 Rated speed (rpm)	1334	333	222	148	83	50	27	21	16	12	9
额定扭力 (kg.cm)	0.05	0.22	0.29	0.43	0.77	1.11	2.06	2.69	3.02	4.10	5.12
瞬间扭力 (kg.cm)	0.32	1.30	1.73	2.59	4.00	6.00	6.00	6.00	6.00	6.00	6.00

*Gear Motor Technical Data-GMP16-1625

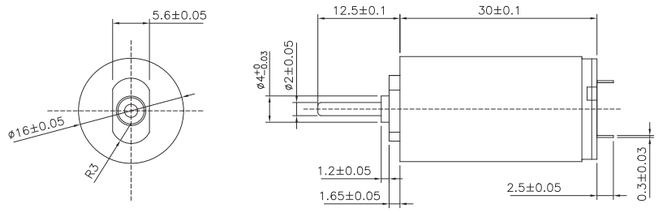
减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	2513	628	419	279	157	94	51	39	30	22	17
额定转速 Rated speed (rpm)	2233	558	372	248	140	83	46	35	27	20	16
额定扭力 (kg.cm)	0.08	0.27	0.40	0.57	1.01	1.35	2.47	3.23	4.20	4.78	6.00
瞬间扭力 (kg.cm)	0.68	2.40	3.16	4.73	6.00	6.00	6.00	6.00	6.00	6.00	6.00

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



KS-1630



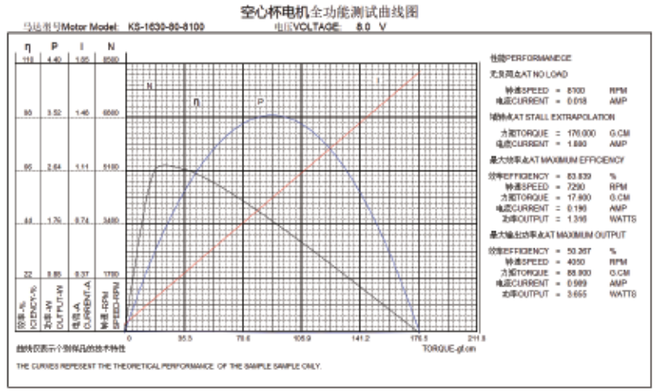
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

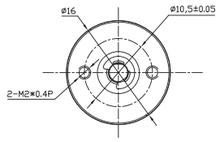
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1630-80-8100	8.0	8100	18	6750	29.0	310	3.8	176	1.80
KS-1630-120-10200	12.0	10200	16	8860	35.0	340	7.4	274	2.50
KS-1630-240-12000	24.0	12000	12	9900	55.0	290	10	313	1.60

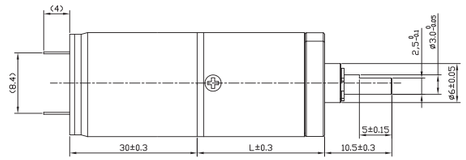
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



GMP16-1630





电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1630-80-8100	8.0	8100	18	6750	29.0	310	3.8	176	1.80
KS-1630-120-10200	12.0	10200	16	8860	35.0	340	7.4	274	2.50
KS-1630-240-12000	24.0	12000	12	9900	55.0	290	10.0	313	1.60

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP16-1630

减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	2025	506	338	225	127	76	41	32	24	18	14
额定转速 Rated speed (rpm)	1687.5	422	281	188	105	63	34	26	20	15	12
额定扭力 (kg.cm)	0.10	0.37	0.49	0.73	1.30	2.17	2.84	3.71	4.87	6.00	6.00
瞬间扭力 (kg.cm)	0.63	2.25	2.96	4.44	6.00	6.00	6.00	6.00	6.00	6.00	6.00

*Gear Motor Technical Data-GMP16-1630

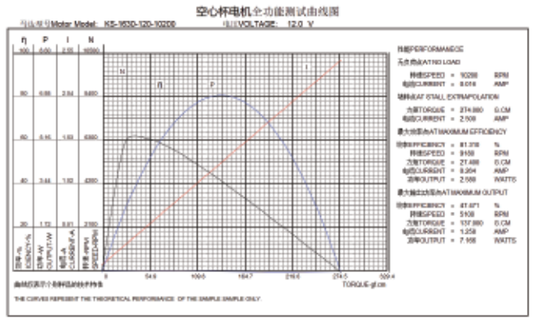
减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	2550	638	425	283	159	95	52	40	30	22	18
额定转速 Rated speed (rpm)	2215	554	369	246	138	83	45	35	26	19	15
额定扭力 (kg.cm)	0.13	0.45	0.67	1.00	1.79	2.62	4.80	5.37	5.88	6.00	6.00
瞬间扭力 (kg.cm)	0.90	4.00	4.60	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00

*Gear Motor Technical Data-GMP16-1630

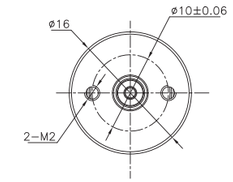
减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	3000	750	500	333	188	112	61	47	36	26	21
额定转速 Rated speed (rpm)	2475	619	413	275	155	93	51	39	29	22	17
额定扭力 (kg.cm)	0.18	0.70	1.51	1.39	2.46	3.53	5.39	6.00	6.00	6.00	6.00
瞬间扭力 (kg.cm)	1.00	4.00	5.25	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00

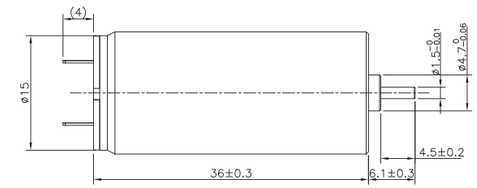
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



KS-1636





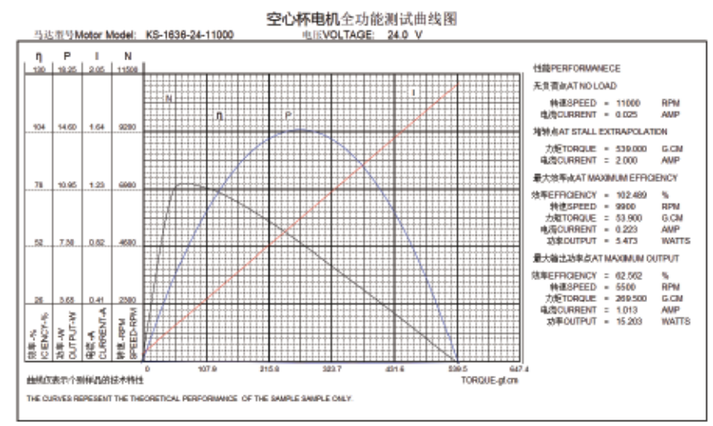
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

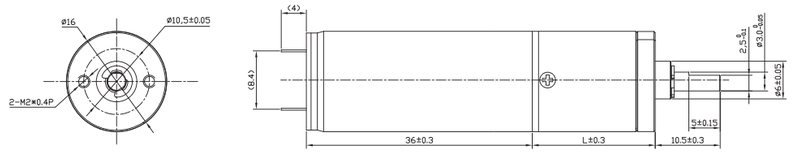
电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1636-24-11000	24.0	11000	25	10600	19.6	130	3	539	2.00

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



GMP16-1636



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 model	电压 Voltage	空载 No-load		负载 AT Maximum Efficiency			功率 Power	堵转 Stall	
		转速 Speed	电流 Current	转速 Speed	转矩 Torque	电流 Current	输出功率 Output Power	转矩 Torque	电流 Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
KS-1636	24.0	11000	25	10600	19.6	130	3	539	2.00

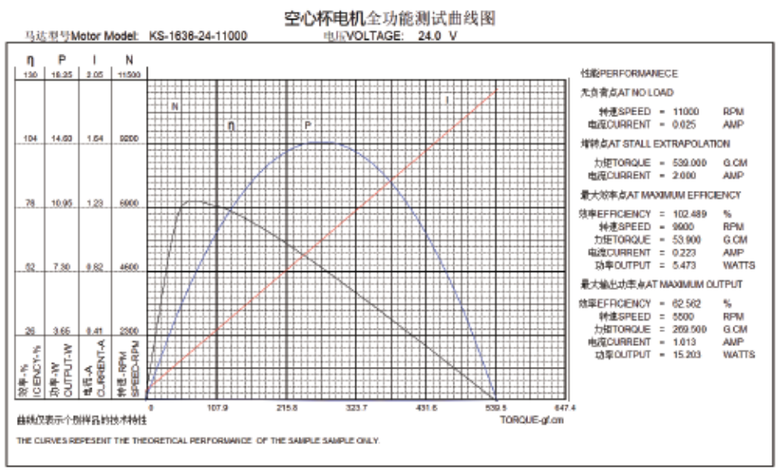
齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GMP16-1636

减速比 Reduction ratio	4	16	24	36	64	107	196	256	336	456	576
减速器长 Length (mm)	11.5	15	15	15	18.5	18.5	22	22	22	22	22
空载转速 No-load speed (rpm)	2750	688	458	306	172	103	56	43	33	24	19
额定转速 Rated speed (rpm)	2650	663	442	294	166	99	54	41	32	23	18
额定扭力 (kg.cm)	0.07	0.26	0.38	0.58	1.02	1.50	2.74	3.00	4.03	4.56	5.76
瞬间扭力 (kg.cm)	1.80	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00

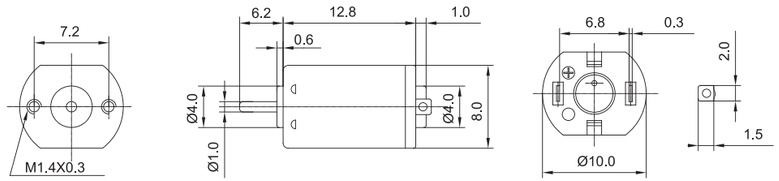
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



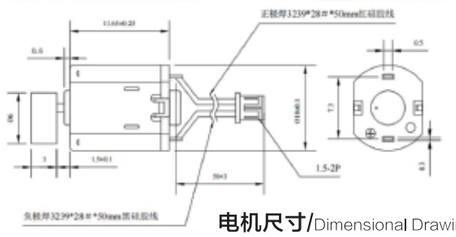
拓展类

KFF-M10VA



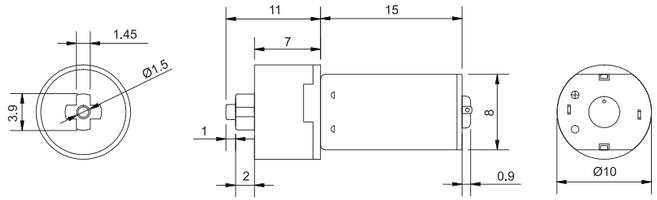
电机尺寸/Dimensional Drawing(mm)

KFF-M10VA-Z



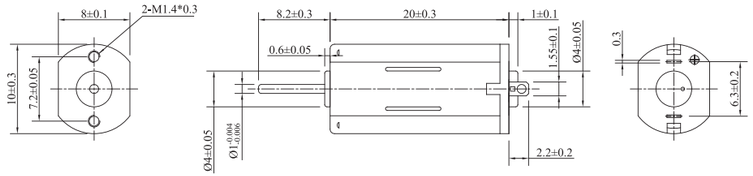
电机尺寸/Dimensional Drawing(mm)

GMP10-M20



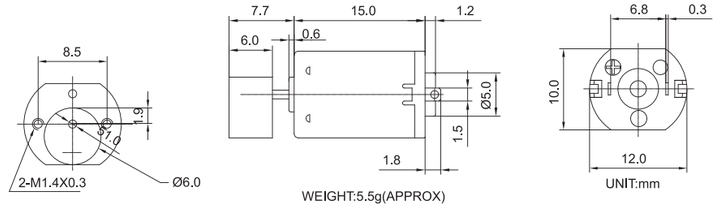
电机尺寸/Dimensional Drawing(mm)

KFF-M30VA

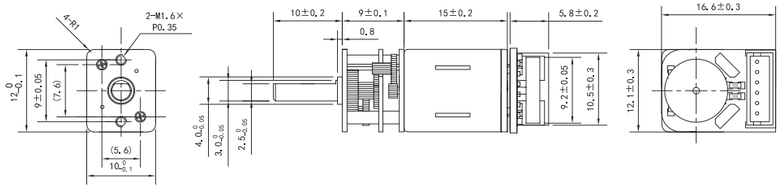


电机尺寸/Dimensional Drawing(mm)

KFF-N20VA-Z

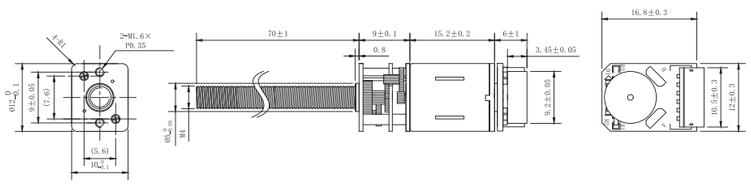


电机尺寸/Dimensional Drawing(mm)



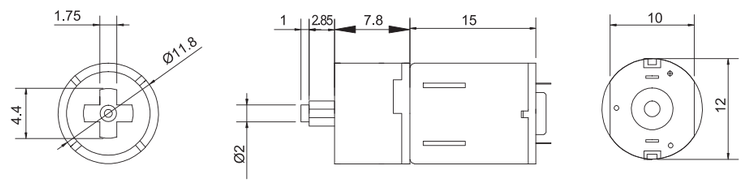
GM12-N20-10D-7PPR

电机尺寸/Dimensional Drawing(mm)



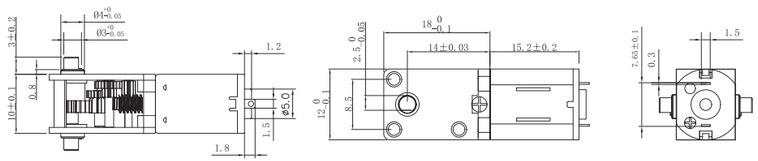
GM12-N20-M4-7PPR

电机尺寸/Dimensional Drawing(mm)



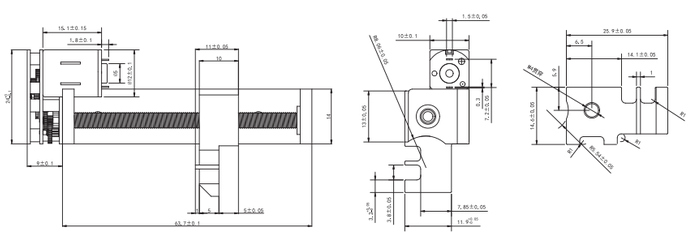
GMP12-N20

电机尺寸/Dimensional Drawing(mm)



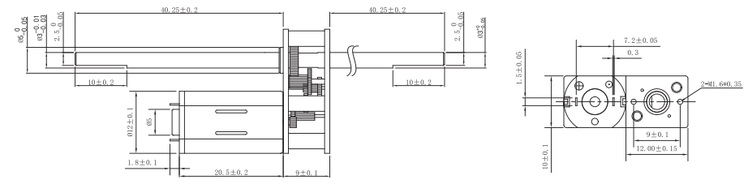
GM1812-N20VA

电机尺寸/Dimensional Drawing(mm)



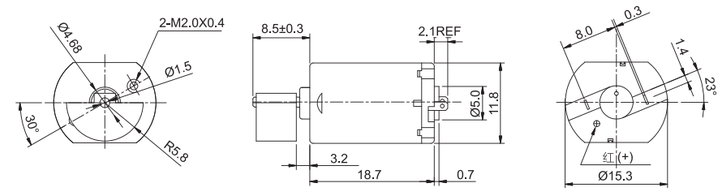
GM1024-N20VA-带导向轴

电机尺寸/Dimensional Drawing(mm)



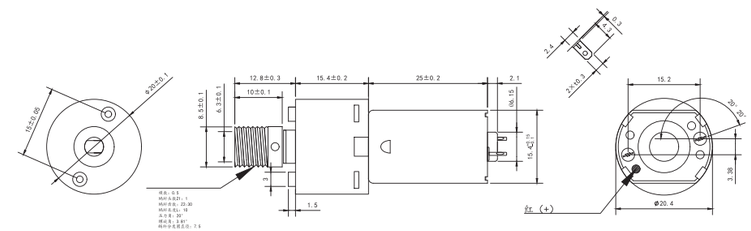
S2410-N30VA

电机尺寸/Dimensional Drawing(mm)



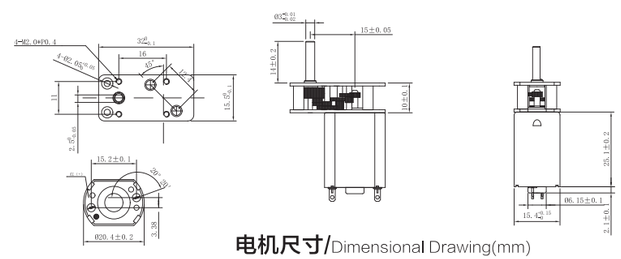
KFF-030PB-Z

电机尺寸/Dimensional Drawing(mm)



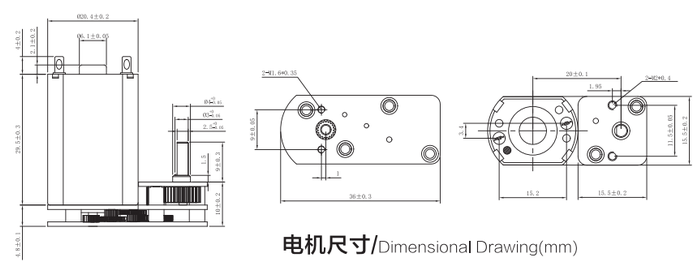
GMP20-130SH

电机尺寸/Dimensional Drawing(mm)



GM3215-130SH

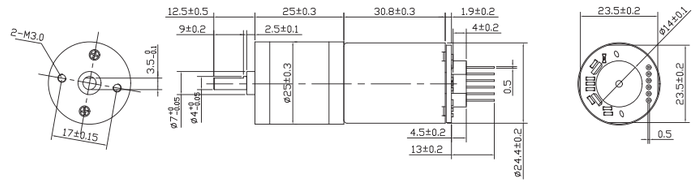
电机尺寸/Dimensional Drawing(mm)



GM3615-170SH

电机尺寸/Dimensional Drawing(mm)

GM25-370SH-EN



电机尺寸/Dimensional Drawing(mm)

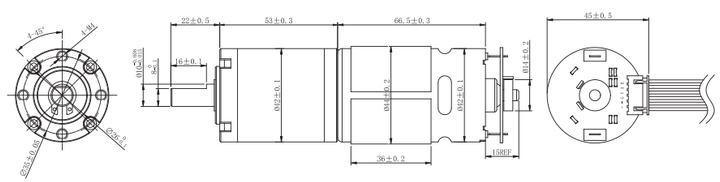
KFK-555SH-EN

电机尺寸/Dimensional Drawing(mm)

GM37-555SH-EN

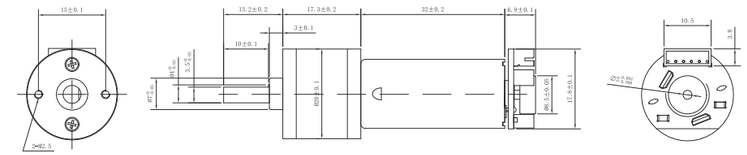
电机尺寸/Dimensional Drawing(mm)

GMP42-775SH-EN



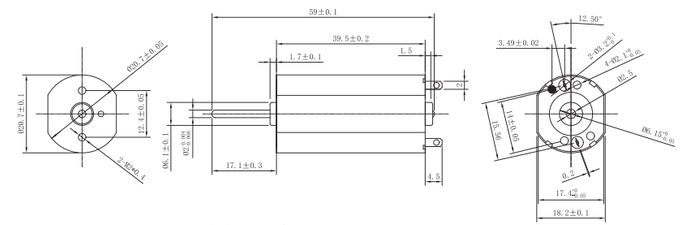
电机尺寸/Dimensional Drawing(mm)

KFK-180SH-EN



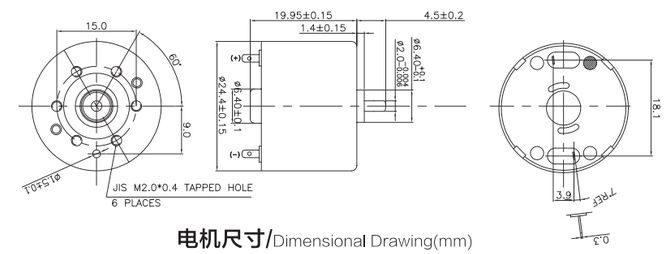
电机尺寸/Dimensional Drawing(mm)

KFK-190SH



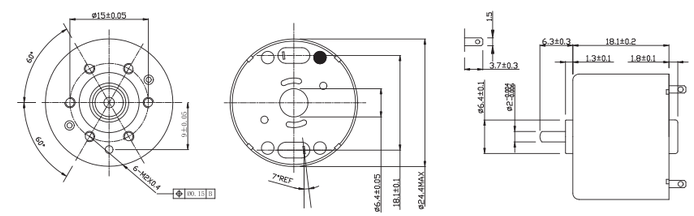
电机尺寸/Dimensional Drawing(mm)

KFK-310SH



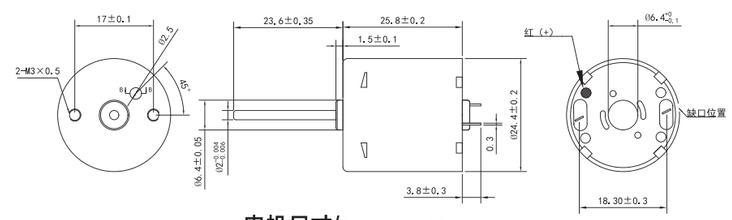
电机尺寸/Dimensional Drawing(mm)

KFK-320SH



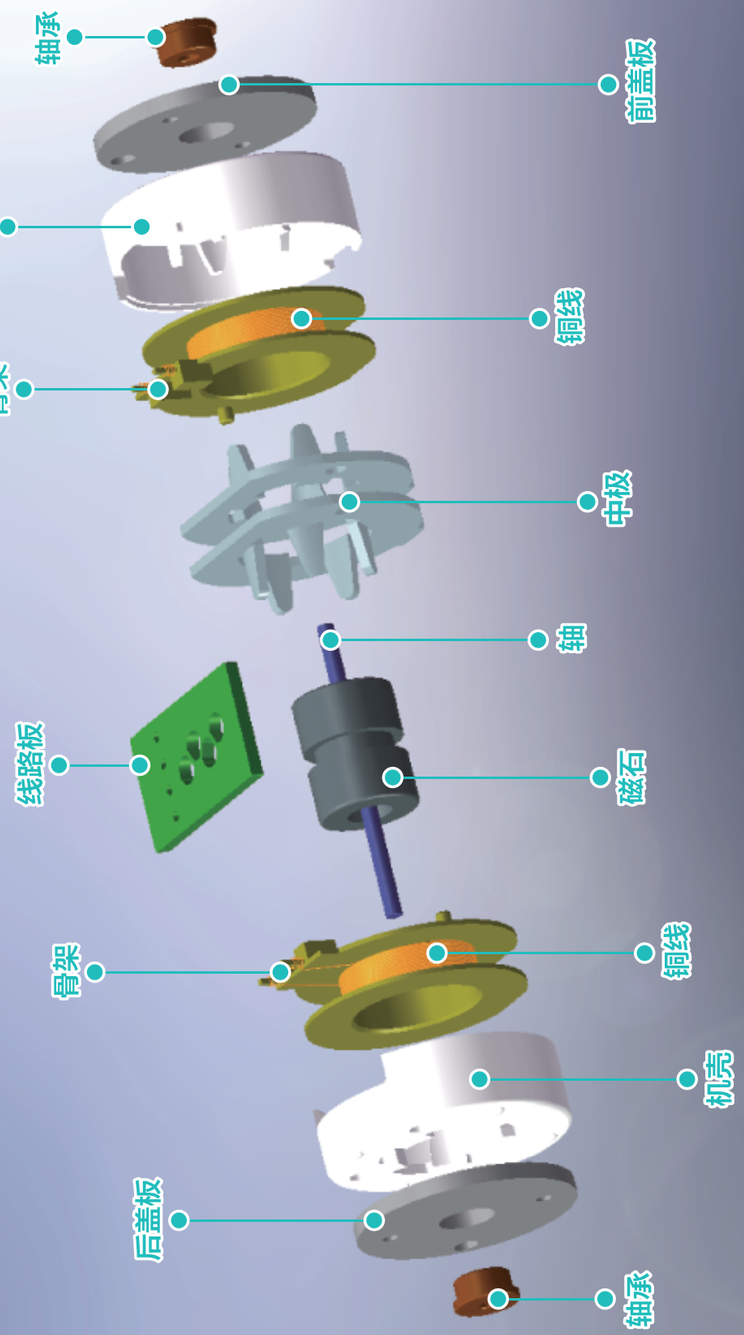
电机尺寸/Dimensional Drawing(mm)

KFK-350SH

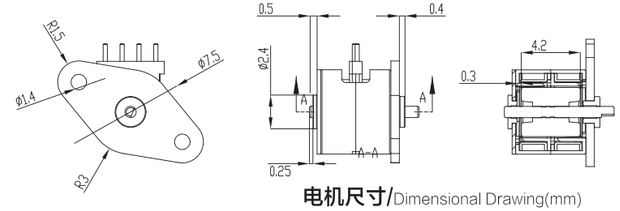


电机尺寸/Dimensional Drawing(mm)

永磁步进电机结构图



06BY25



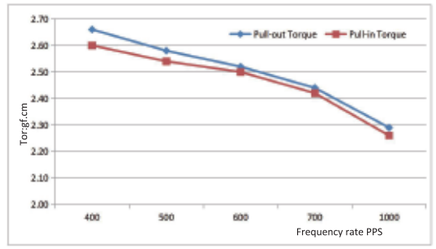
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电阻 Resistance	电压 Voltage	绝缘电阻 Insulation resistance	最大拉伸频率 Max.Pull Out Frequency	最大引入频率 Max.Pull In Frequency
11±10%Ω	3.7V	100VDC/10MΩ Min	1200PPS Min.3.7V	1000PPS Min.3.7V

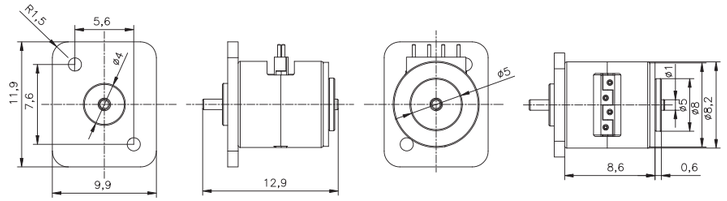
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
400	2.66	2.60
500	2.58	2.54
600	2.52	2.50
700	2.44	2.42
1000	2.29	2.26

08BY25



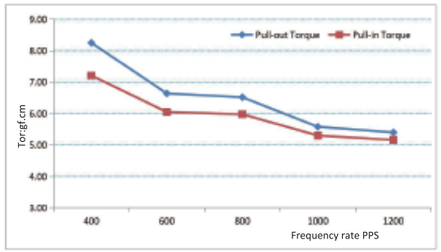
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
08BY2510-N	18	2-2 Phase	3.7	10	300	5.0	10.0	300VDC 50MΩ↑	≤50dB	-10~50	10.7
08BY2520-N	18	2-2 Phase	3.3	20	120	5.0	8.0				
08BY2540-N	18	2-2 Phase	3	40	62.5	5.0	7.0				

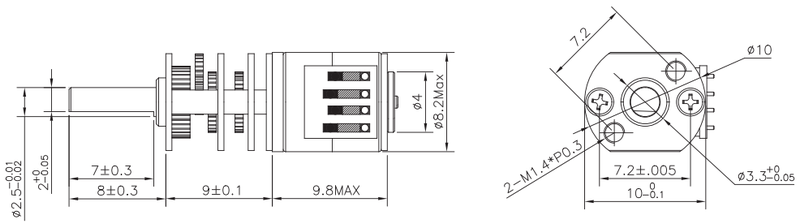
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
400	8.25	7.21
600	6.64	6.05
800	6.52	5.98
1000	5.58	5.30
1200	5.40	5.16

GM10-08BYJ25



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM10-08BYJ2510-N	18	2-2 Phase	3.7	10	300	5.0	10.0	300VDC 50MΩ↑	≤50dB	-10~50	19.70
GM10-08BYJ2520-N	18	2-2 Phase	3.3	20	120	5.0	8.0				
GM10-08BYJ2540-N	18	2-2 Phase	3	40	62.5	5.0	7.0				

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data GM10-08BYJ2510-N-减速比

减速比 /Reduction ratio	10	20	30	50	54	75	101	158	186	224	258
级数 /Stage	3	3	3	4	5	5	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	0.90	0.60	0.36	0.33	0.24	0.18	0.11	0.10	0.08	0.07
输出扭矩（gf.cm）/Pull-out Torque	32	63	95	135	122	169	227	356	419	504	581
转速 /Speed(rpm)	240.0	120.0	80.0	48.0	44.4	32.0	23.8	15.2	12.9	10.7	9.3

*Gear Motor Technical Data GM10-08BYJ2520-N-减速比

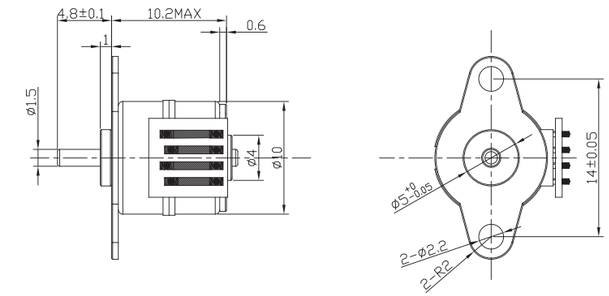
减速比 /Reduction ratio	10	20	30	50	54	75	101	158	186	224	258
级数 /Stage	3	3	3	4	5	5	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	0.90	0.60	0.36	0.33	0.24	0.18	0.11	0.10	0.08	0.07
输出扭矩（gf.cm）/Pull-out Torque	18	35	53	75	68	94	126	198	233	280	323
转速 /Speed(rpm)	240.0	120.0	80.0	48.0	44.4	32.0	23.8	15.2	12.9	10.7	9.3

*Gear Motor Technical Data GM10-08BYJ2540-N-减速比

减速比 /Reduction ratio	10	20	30	50	54	75	101	158	186	224	258
级数 /Stage	3	3	3	4	5	5	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	0.90	0.60	0.36	0.33	0.24	0.18	0.11	0.10	0.08	0.07
输出扭矩（gf.cm）/Pull-out Torque	11	21	32	45	41	56	76	119	140	168	194
转速 /Speed(rpm)	240.0	120.0	80.0	48.0	44.4	32.0	23.8	15.2	12.9	10.7	9.3

*Comment: The length of shaft and parameters can be customized according to customer requirements.

10BY25-1.5



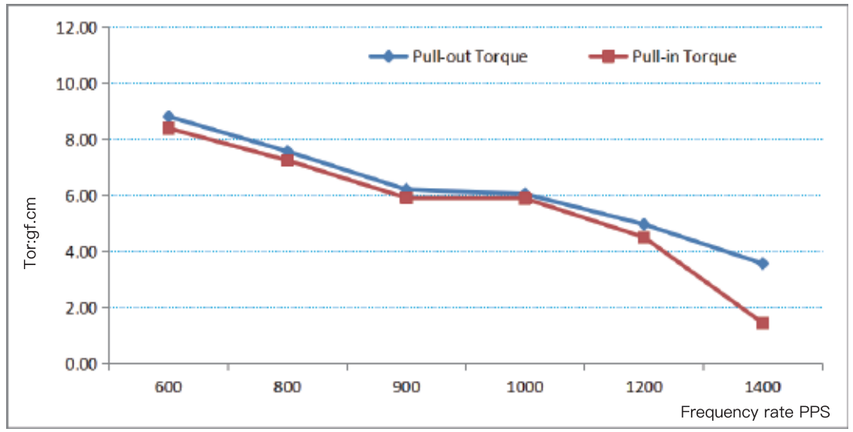
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
10BY2510-N	18	2-2 Phase	5.0	10	630	6.0	20.0	300VDC 50MΩ↑	≤50dB	-10~50	15
10BY2520-N	18	2-2 Phase	5.0	20	310	6.0	20.0				
10BY2530-N	18	2-2 Phase	5.0	40	150	6.0	18.0				

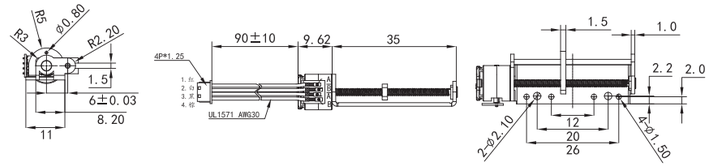
*Comment: The length of shaft and parameters can be customized according to customer requirements.

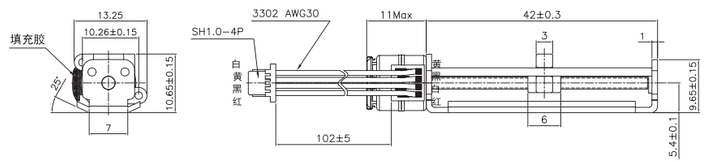
电机性能曲线/Motor Performance Curve



Frequency	600	800	900	1000	1200	1400
Pull-out Torque	8.80	7.56	6.20	6.04	4.96	3.56
Pull-in Torque	8.38	7.24	5.90	5.88	4.50	1.44

10BY2535/42





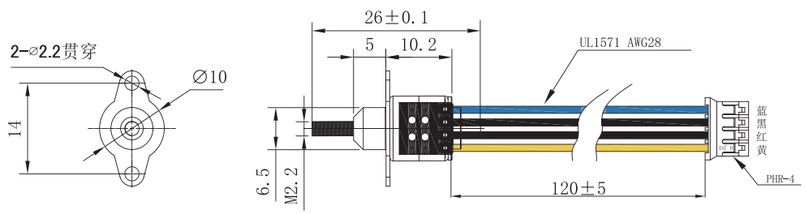
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
10BY2535	18	2-2 Phase	3.7	10	290	-	120.0	500VDC 50MΩ↑	≤50dB	-10~50	44.6

*Comment: The length of shaft and parameters can be customized according to customer requirements.

10BY25L



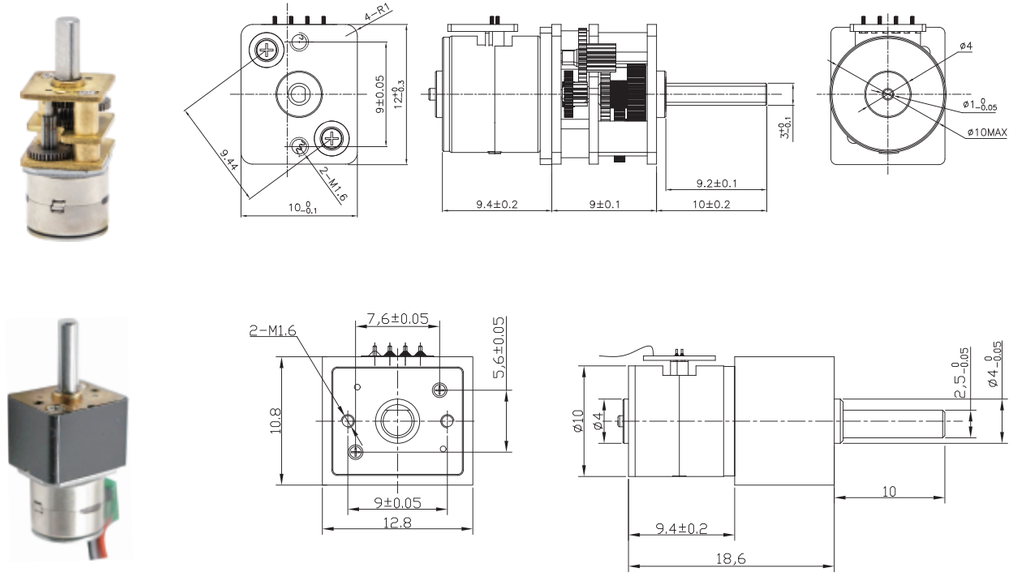
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
10BY25直线电机	18	2-2 Phase	5.0	18	340	-	200.0	300VDC 50MΩ↑	≤50dB	-10~50	26

*Comment: The length of shaft and parameters can be customized according to customer requirements.

GM12-10BYJ25



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM12-10BYJ2510-N	18	2-2 Phase	5.0	10	490	6.0	20.0	300VDC 50MΩ↑	≤50dB	-10~50	27.4
GM12-10BYJ2520-N	18	2-2 Phase	5.0	20	320	6.0	20.0				

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data GM12-10BYJ2510-N-减速比

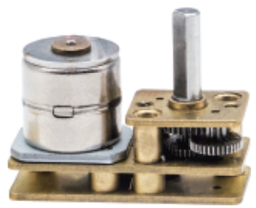
减速比 /Reduction ratio	10	20	30	50	75	100	165	210	250	298	380
级数 /Stage	2	3	3	4	4	4	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	0.90	0.60	0.36	0.24	0.18	0.11	0.09	0.07	0.06	0.05
输出扭矩（gf.cm）/Pull-out Torque	84.00	147.00	220.50	315.00	472.50	630.00	866.25	1102.50	1312.50	1564.50	1995.00
转速 /Speed(rpm)	240.00	120.00	80.00	48.00	32.00	24.00	14.55	11.43	9.60	8.05	6.32

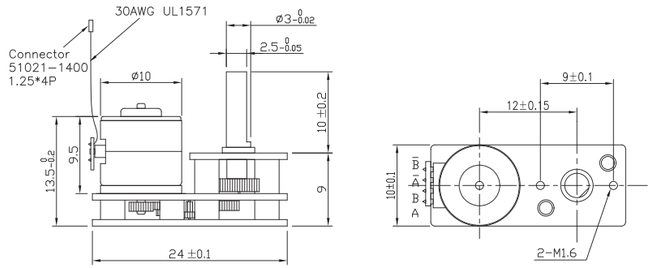
*Gear Motor Technical Data GM12-10BYJ2520-N-减速比

减速比 /Reduction ratio	10	20	30	50	75	100	165	210	250	298	380
级数 /Stage	2	3	3	4	4	4	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	0.90	0.60	0.36	0.24	0.18	0.11	0.09	0.07	0.06	0.05
输出扭矩（gf.cm）/Pull-out Torque	51.20	89.60	134.40	192.00	288.00	384.00	528.00	672.00	800.00	953.60	1216.00
转速 /Speed(rpm)	240.00	120.00	80.00	48.00	32.00	24.00	14.55	11.43	9.60	8.05	6.32

*Comment: The length of shaft and parameters can be customized according to customer requirements.

GM1024-10BYJ25





电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM1024-10BYJ2510-N	18	2-2 Phase	5.0	10	490	6.0	20.0	300VDC 50MΩ↑	≤50dB	-10~50	24
GM1024-10BYJ2520-N	18	2-2 Phase	5.0	30	190	6.0	20.0				
GM1024-10BYJ2530-N	18	2-2 Phase	5.0	40	90	6.0	18.0				

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data GM1024-10BYJ2510-N-减速比

减速比 /Reduction ratio	10	15	20	50	100	218	250	298	350	500	1000
级数 /Stage	2	4	4	4	4	6	6	6	6	6	6
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	1.20	0.90	0.36	0.18	0.08	0.07	0.06	0.05	0.04	0.02
输出扭矩（gf.cm）/Pull-out Torque	84	95	126	315	630	916	1050	1252	1470	2100	4200
转速 /Speed(rpm)	240.0	160.0	120.0	48.0	24.0	11.4	9.6	8.1	6.9	6.3	2.4

*Gear Motor Technical Data GM1024-10BYJ2520-N-减速比

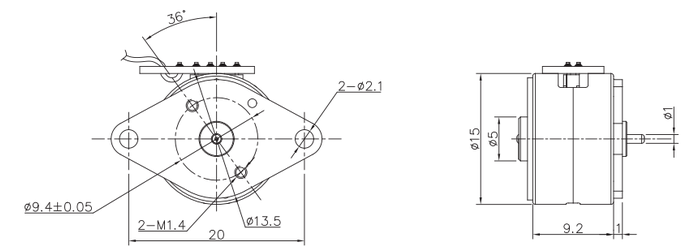
减速比 /Reduction ratio	10	15	20	50	100	218	250	298	350	500	1000
级数 /Stage	2	4	4	4	4	6	6	6	6	6	6
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	1.20	0.90	0.36	0.18	0.08	0.07	0.06	0.05	0.04	0.02
输出扭矩（gf.cm）/Pull-out Torque	51	58	77	192	384	558	640	763	896	1280	2560
转速 /Speed(rpm)	240.00	160.00	120.00	48.00	24.00	11.43	9.60	8.05	6.86	6.32	2.40

*Gear Motor Technical Data GM1024-10BYJ2540-N-减速比

减速比 /Reduction ratio	10	15	20	50	100	218	250	298	350	500	1000
级数 /Stage	2	4	4	4	4	6	6	6	6	6	6
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	1.20	0.90	0.36	0.18	0.08	0.07	0.06	0.05	0.04	0.02
输出扭矩（gf.cm）/Pull-out Torque	34	38	50	126	252	366	420	501	588	840	1680
转速 /Speed(rpm)	240.00	160.00	120.00	48.00	24.00	11.43	9.60	8.05	6.86	6.32	2.40

*Comment: The length of shaft and parameters can be customized according to customer requirements.

15BYJ25-1



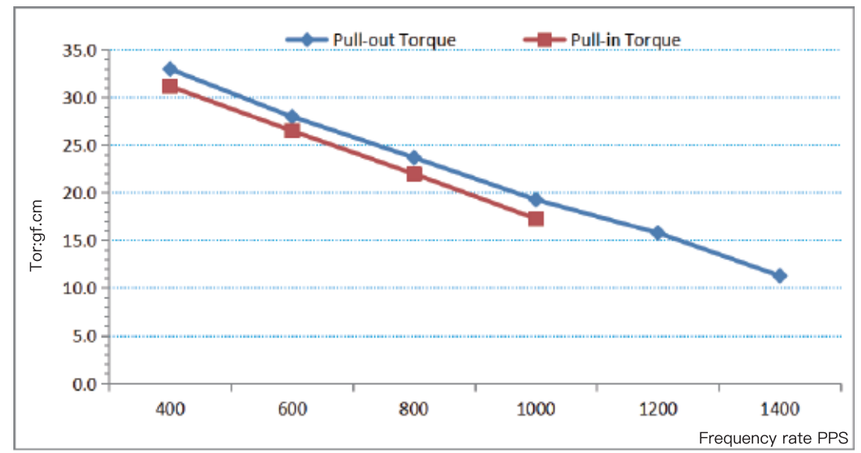
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

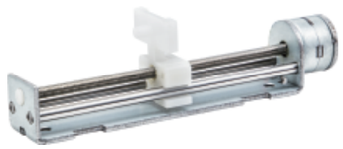
电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
15BY2510-N1	18	2-2 Phase	5.0	10	400	8.0	45.0	300VDC 50MΩ↑	≤50dB	-10~50	17.2
15BY2520-N1	18	2-2 Phase	5.0	20	210	8.0	40.0				
15BY2540-N1	18	2-2 Phase	5.0	40	300	8.0	55.0				

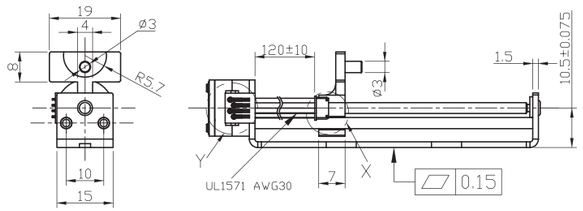
*Comment: The length of shaft and parameters can be customized according to customer requirements.

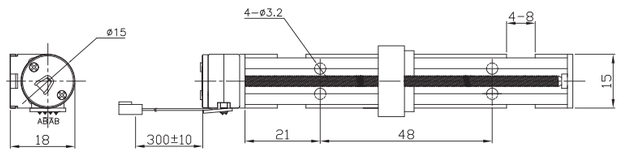
电机性能曲线/Motor Performance Curve



Frequency	400	600	800	1000	1200	1400
Pull-out Torque	33.0	28.0	23.7	19.3	15.8	11.3
Pull-in Torque	31.2	26.5	22.0	17.3	0.0	0.0





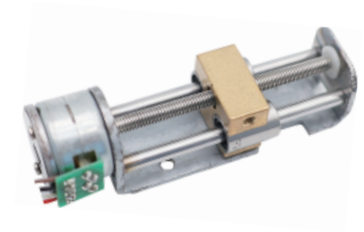


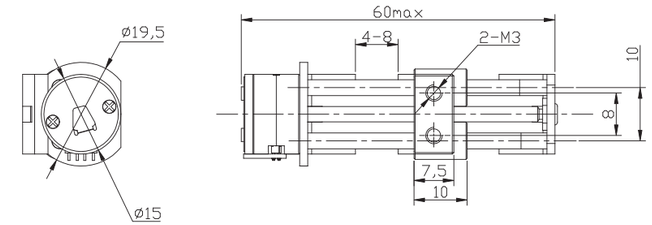
电机尺寸/Dimensional Drawing(mm)

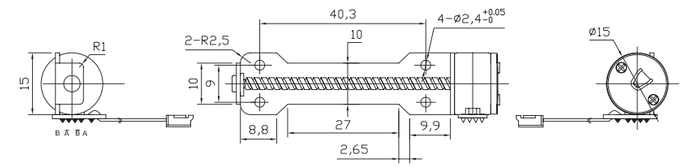
电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	转矩 Torque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature
	degree		VDC	Ω	mA	gf.cm		dB(A)	℃
15BY2590–001	18	2–2 Phase	3.7	10	375	240/600PPS	500VDC 100MΩ↑	≤50dB	–10~50
15BY2590–002	18	2–2 Phase	5	10	484	400/800PPS			
15BY2590–003	18	2–2 Phase	9	10	860	900/1000PPS			
15BY2590–004	18	2–2 Phase	3.7	14	200	180/600PPS			
15BY2590–005	18	2–2 Phase	5	14	244	350/800PPS			
15BY2590–006	18	2–2 Phase	9	14	520	700/1000PPS			

*Comment: The length of shaft and parameters can be customized according to customer requirements.







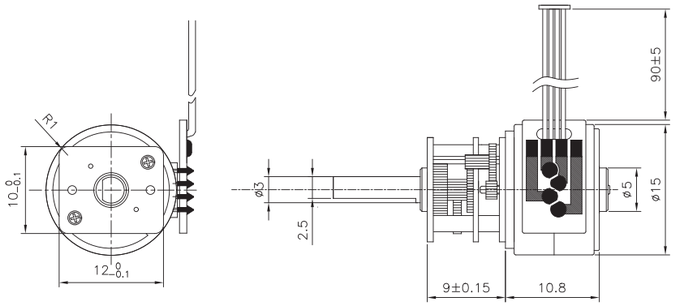
电机尺寸/Dimensional Drawing(mm)

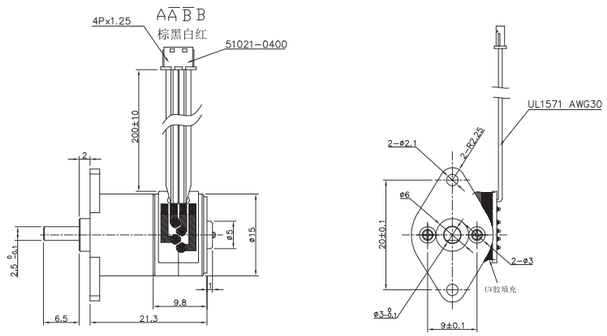
电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	转矩 Torque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature
	degree		VDC	Ω	mA	gf.cm		dB(A)	℃
15BY2577–001	18	2–2 Phase	3.7	10	375	240/600PPS	500VDC 100MΩ↑	≤50dB	–10~50
15BY2577–002	18	2–2 Phase	5	10	484	400/800PPS			
15BY2577–003	18	2–2 Phase	9	10	860	900/1000PPS			
15BY2577–004	18	2–2 Phase	3.7	14	200	180/600PPS			
15BY2577–005	18	2–2 Phase	5	14	244	350/800PPS			
15BY2577–006	18	2–2 Phase	9	14	520	700/1000PPS			

*Comment: The length of shaft and parameters can be customized according to customer requirements.

GM12-15BYJ25





电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM12-15BYJ2510-N	18	2-2 Phase	5.0	10	400	8.0	45	300VDC 50MΩ↑	≤50dB	-10~50	39.8
GM12-15BYJ2540-N	18	2-2 Phase	12.0	40	300	8.0	55				

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data GM12-15BYJ2510-N（800PPS）

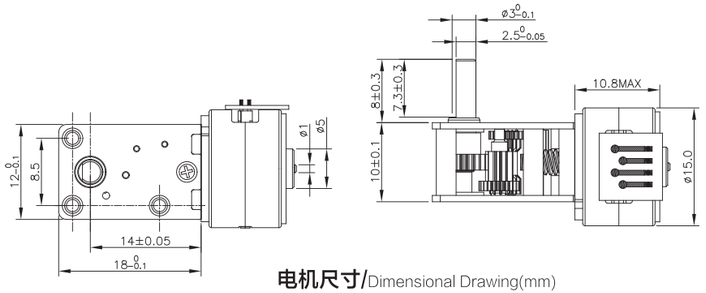
减速比 /Reduction ratio	10	20	30	50	75	100	165	210	250	298	380
级数 /Stage	2	3	3	4	4	4	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	0.90	0.60	0.36	0.24	0.18	0.11	0.09	0.07	0.06	0.05
输出扭矩（gf.cm）/Pull-out Torque	160	280	420	600	900	1200	1650	2100	2500	2980	3800
转速 /Speed(rpm)	240.0	120.0	80.0	48.0	32.0	24.0	14.5	11.4	9.6	8.1	6.3

*Gear Motor Technical Data GM12-15BYJ2540-N（800PPS）

减速比 /Reduction ratio	10	20	30	50	75	100	165	210	250	298	380
级数 /Stage	2	3	3	4	4	4	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	9	9	9	9	9	9	9	9	9	9	9
步进角 /Step Angle	1.80	0.90	0.60	0.36	0.24	0.18	0.11	0.09	0.07	0.06	0.05
输出扭矩（gf.cm）/Pull-out Torque	160	280	420	600	900	1200	1650	2100	2500	2980	3800
转速 /Speed(rpm)	240.0	120.0	80.0	48.0	32.0	24.0	14.5	11.4	9.6	8.1	6.3

*Comment: The length of shaft and parameters can be customized according to customer requirements.

GM1812-15BYJ25



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM1812-15BYJ2510-N	18	2-2 Phase	5	10	400	8.0	45	300VDC 50MΩ↑	≤50dB	-10~50	32.2
GM1812-15BYJ2540-N	18	2-2 Phase	12	40	290	8.0	40				
GM1812-15BYJ25120-N	18	2-2 Phase	12	120	60	8.0	55				

齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM1812-15BYJ2510-N（800PPS）

减速比 /Reduction ratio	42	63	80	105	121	230	242	302	346	453	692
级数 /Stage	4	4	4	4	4	4	4	5	5	5	5
减速箱长度 /Gearbox Length(mm)	18	18	18	18	18	18	18	18	18	18	18
步进角 /Step Angle	0.43	0.29	0.23	0.17	0.15	0.08	0.07	0.06	0.05	0.04	0.03
输出扭矩（gf.cm）/Pull-out Torque	504	756	960	1260	1452	2760	2904	3020	3460	4530	6920
转速 /Speed(rpm)	57.1	38.1	30.0	22.9	19.8	10.4	9.9	7.9	6.9	5.3	3.5

*Gear Motor Technical Data-GM1812-15BYJ2540-N（800PPS）

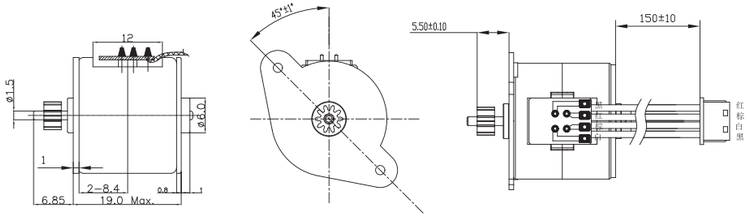
减速比 /Reduction ratio	42	63	80	105	121	230	242	302	346	453	692
级数 /Stage	4	4	4	4	4	4	4	5	5	5	5
减速箱长度 /Gearbox Length(mm)	18	18	18	18	18	18	18	18	18	18	18
步进角 /Step Angle	0.43	0.29	0.23	0.17	0.15	0.08	0.07	0.06	0.05	0.04	0.03
输出扭矩（gf.cm）/Pull-out Torque	580	869	1104	1449	1670	3174	3340	3473	3979	5210	7958
转速 /Speed(rpm)	57.1	38.1	30.0	22.9	19.8	10.4	9.9	7.9	6.9	5.3	3.5

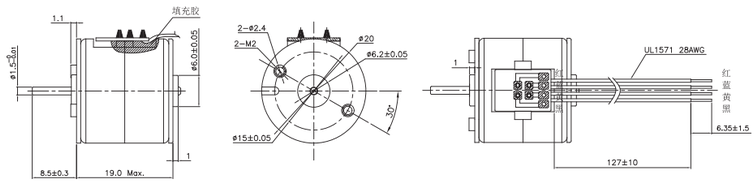
*Gear Motor Technical Data -GM1812-15BYJ25120-N（800PPS）

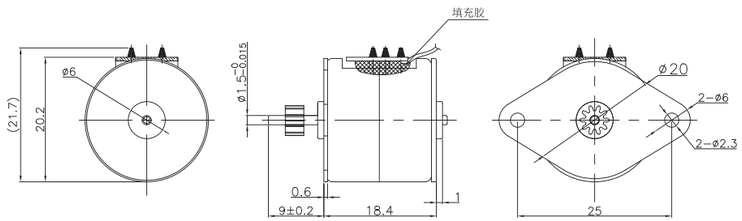
减速比 /Reduction ratio	42	63	80	105	121	230	242	302	346	453	692
级数 /Stage	4	4	4	4	4	4	4	5	5	5	5
减速箱长度 /Gearbox Length(mm)	18	18	18	18	18	18	18	18	18	18	18
步进角 /Step Angle	0.43	0.29	0.23	0.17	0.15	0.08	0.07	0.06	0.05	0.04	0.03
输出扭矩（gf.cm）/Pull-out Torque	265	397	504	662	762	1449	1525	1586	1817	2378	3633
转速 /Speed(rpm)	57.1	38.1	30.0	22.9	19.8	10.4	9.9	7.9	6.9	5.3	3.5

*Comment: The length of shaft and parameters can be customized according to customer requirements.

20BY25







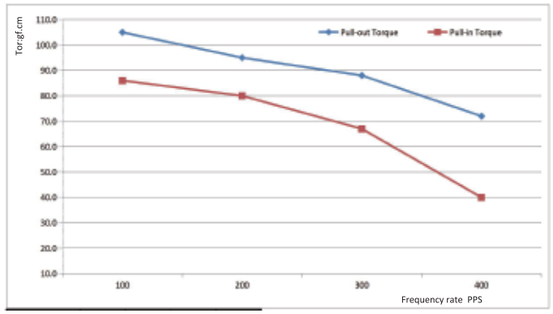
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
20BY2520-N1	18	2-2 Phase	9	20	160	20	120	300VDC 50MΩ↑	≤50dB	10~50	17.2
20BY2520-N2	18	2-2 Phase	12	20	290	20	135				

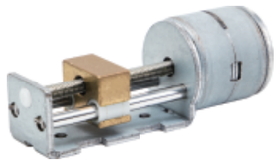
*Comment: The length of shaft and parameters can be customized according to customer requirements.

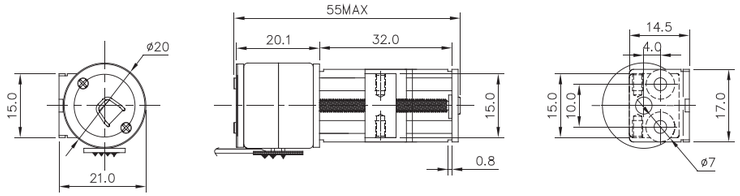
电机性能曲线/Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
100	105.0	86.0
200	95.0	80.0
300	88.0	67.0
400	72.0	40.0

20BY2532





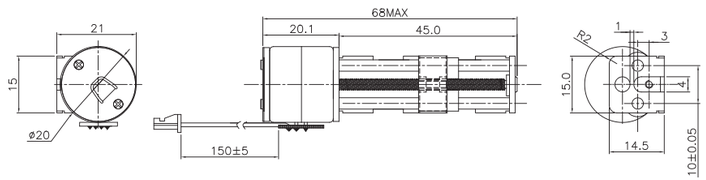
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	转矩 Torque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature
	degree		VDC	Ω	mA	gf.cm		dB(A)	℃
20BY32001	18	2-2 Phase	9	20	170	800/800pps	500VDC 100MΩ↑	≤50dB	-10~50
20BY32002	18	2-2 Phase	12	20	320	1400/800pps			
20BY32002	18	2-2 Phase	12	20	215	750/1000pps			

*Comment: The length of shaft and parameters can be customized according to customer requirements.

20BY2545



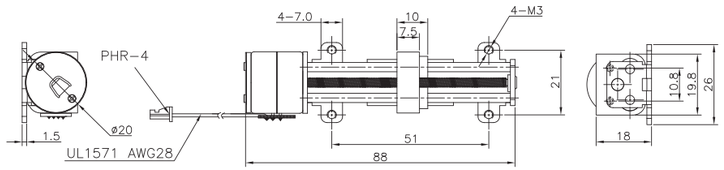
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	转矩 Torque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature
	degree		VDC	Ω	mA	gf.cm		dB(A)	℃
20BY45001	18	2-2 Phase	9	20	170	800/800pps	500VDC 100MΩ↑	≤50dB	-10~50
20BY45002	18	2-2 Phase	12	20	320	1400/800pps			
20BY45002	18	2-2 Phase	12	20	215	750/1000pps			

*Comment: The length of shaft and parameters can be customized according to customer requirements.

20BY2568



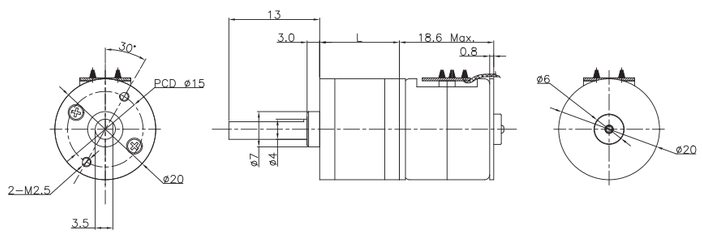
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	转矩 Torque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature
	degree		VDC	Ω	mA	gf.cm		dB(A)	℃
20BY68001	18	2-2 Phase	9	20	170	800/800pps	500VDC 100MΩ↑	≤50dB	-10~50
20BY68002	18	2-2 Phase	12	20	320	1400/800pps			
20BY68002	18	2-2 Phase	12	20	215	750/1000pps			

*Comment: The length of shaft and parameters can be customized according to customer requirements.

GM20-20BYJ25



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM20-20BYJ2520-N	18	2-2 Phase	12	20	160	20	120	300VDC 50MΩ↑	≤50dB	-10~50	18.6+L

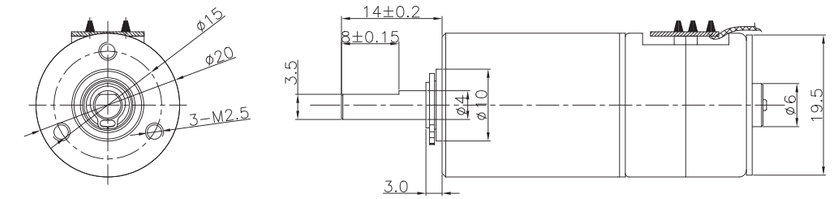
齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM20-20BYJ2520-N（800PPS）

减速比 /Reduction ratio	20	29	35	56	78	107	140	195	220	267	349
级数 /Stage	4	4	4	5	5	6	6	6	7	7	7
减速箱长度 /Gearbox Length(mm)	15.8	15.8	15.8	17.3	17.3	18.8	18.8	18.8	20.3	20.3	20.3
步进角 /Step Angle	0.90	0.62	0.51	0.32	0.23	0.17	0.13	0.09	0.08	0.07	0.05
输出扭矩（gf.cm）/Pull-out Torque	780	1131	1365	1820	2535	2782	3640	5000	4000	5000	6000
转速 /Speed(rpm)	120.0	82.8	68.6	42.9	30.8	22.4	17.1	12.3	10.9	9.0	6.9

*Comment: The length of shaft and parameters can be customized according to customer requirements.

GMP20-20BYJ25



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GMP20-20BYJ2520-N	18	2-2 Phase	9	20	160	20	120	300VDC 50MΩ↑	≤50dB	10~50	18.6+L
GMP20-20BYJ2520-N	18	2-2 Phase	12	20	290	20	135				

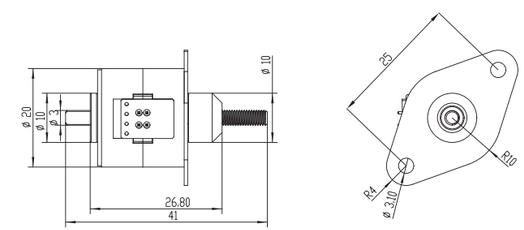
齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM10-08BYJ2510-N（800PPS）

减速比 /Reduction ratio	5	20	24	29	84	104	157	370	455	560	690
级数 /Stage	1	2	2	2	3	3	3	4	4	4	4
减速箱长度 /Gearbox Length(mm)	16.3	20.5	20.5	20.5	24.7	24.7	24.7	28.9	28.9	28.9	28.9
步进角 /Step Angle	3.60	0.90	0.75	0.62	0.21	0.17	0.11	0.05	0.04	0.03	0.03
输出扭矩（gf.cm）/Pull-out Torque	270	960	1152	1392	3528	4368	6000	6000	6000	6000	6000
转速 /Speed(rpm)	480.0	120.0	100.0	82.8	28.6	23.1	15.3	6.5	5.3	4.3	3.5

*Comment: The length of shaft and parameters can be customized according to customer requirements.

20BY25L



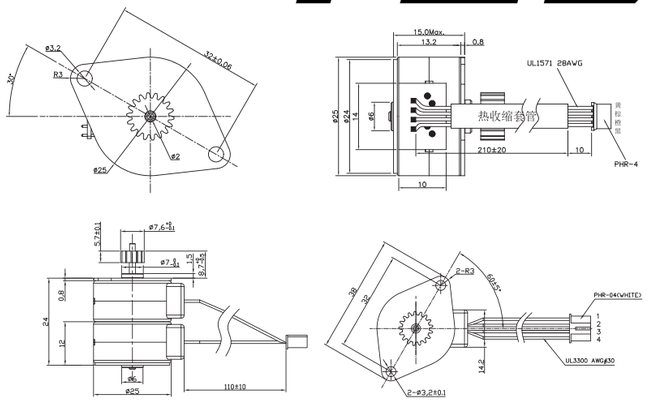
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
20BY25-1	18	2-2 Phase	9	20	180	450	-	300VDC 50MΩ↑	≤50dB	10~50	41
20BY25-2	18	2-2 Phase	12	20	300	520	-				

*Comment: The length of shaft and parameters can be customized according to customer requirements.

25BY212



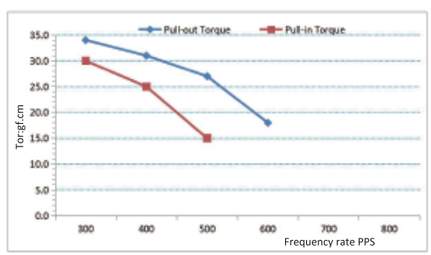
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
25BY26-100	15	2-2	9	10	240	35	400	500VDC 100MΩ↑	≤50dB	-10~50	15.0
	15	2-2	12	10	480	35	460				
25BY212-100	7.5	2-2	9	20	100	24	330	500VDC 100MΩ↑	≤50dB	-10~50	15.0
	7.5	2-2	12	20	135	24	360				

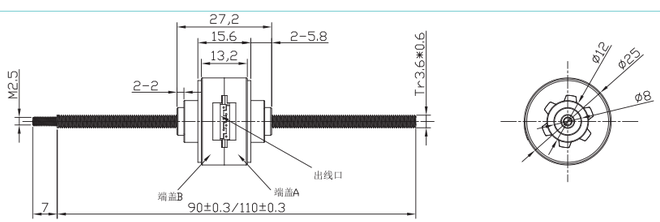
*Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
300	34.0	30.0
400	31.0	25.0
500	27.0	15.0
600	18.0	
700		
800		

25BY212L



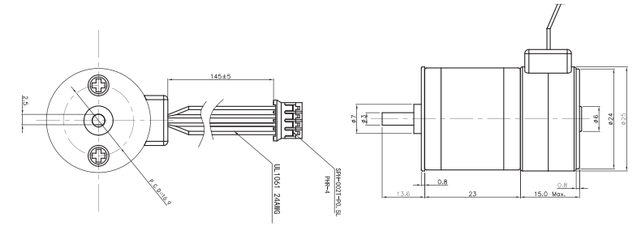
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	推力 Thrust	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
25BY212L	7.5	2-2 Phase	7.4	20	127	1500	-	300VDC 50MΩ↑	≤50dB	-10~50	27.2
25BY26L	15	2-2 Phase	5	14	157	300	-				

*Comment: The length of shaft and parameters can be customized according to customer requirements.

GM25-25BY212



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GA25-25BY21210-N	7.5	2-2 Phase	9	10	200	30	350	500VDC 100MΩ↑	≤50dB	-10~50	15

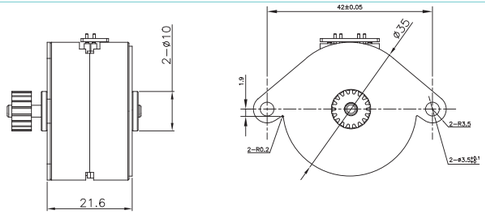
齿轮电机技术参数/Gear motor Technical Data

*Gear Motor Technical Data-GM25-25BY212 (800PPS)

减速比 /Reduction ratio	10	35.5	59	78	103	130	172	226	286	378	500
级数 /Stage	2	3	4	4	4	5	5	5	6	6	6
减速箱长度 /Gearbox Length(mm)	19	21	23	23	23	25	25	25	27	27	27
步进角 /Step Angle	0.750	0.211	0.127	0.096	0.073	0.058	0.044	0.033	0.026	0.020	0.015
输出扭矩（gf.cm）/Pull-out Torque	600	1864	2655	3510	4635	4875	6000	6000	6000	6000	6000
转速 /Speed(rpm)	100.00	28.17	16.95	12.82	9.71	7.69	5.81	4.42	3.50	2.65	2.00

*Comment: The length of shaft and parameters can be customized according to customer requirements.

35BY212G



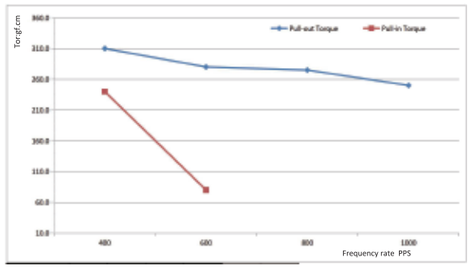
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
35BY212G	7.5/15	2-2 Phase	2.8	4.5	475	130	750	500VDC 100MΩ↑	≤50dB	-10~50	21.6

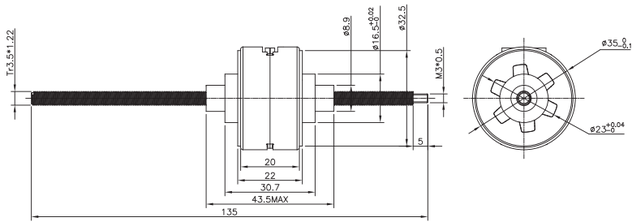
*Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
400	310.0	240.0
600	280.0	80.0
800	275.0	
1000	250.0	
1200	240.0	
1400	220.0	

35BY212L



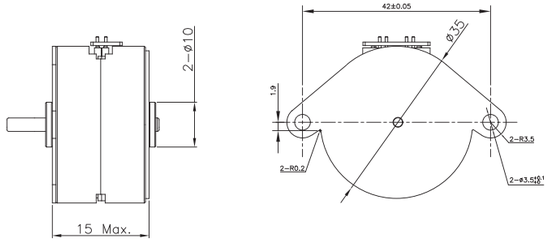
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm		dB(A)	℃	mm
35BY212	7.5	2-2 Phase	7.4	10.7	526	2500	500VDC 100MΩ↑	≤50dB	-10~50	43.5

*Comment: The length of shaft and parameters can be customized according to customer requirements.

35BY212



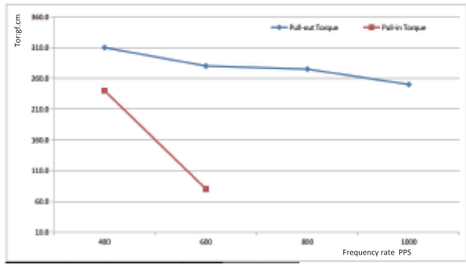
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
35BY212	7.5	2-2 Phase	12.0	3.9	900	6.0	185.0	500VDC 100MΩ↑	≤50dB	-10~50	15

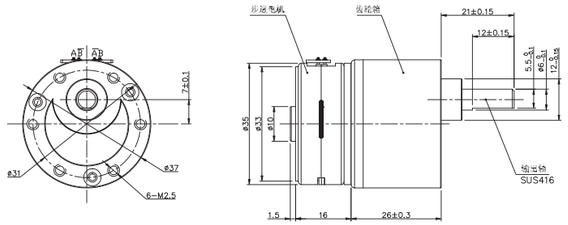
*Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
400	310.0	240.0
600	280.0	80.0
800	275.0	
1000	250.0	
1200	240.0	
1400	220.0	

GM37-35BY212



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM37-35BY212	7.5	1-2 Phase	2.8	4.5	475	130	750	500VDC 100MΩ↑	≤50dB	-10~50	43.5

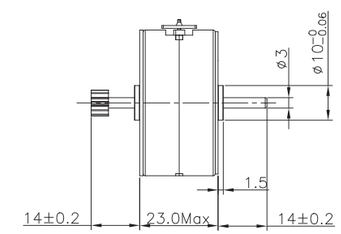
齿轮电机技术参数/Gear motor Technical Data

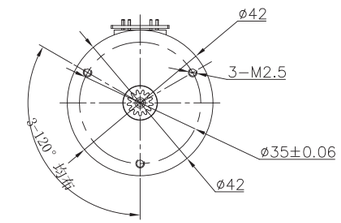
*Gear Motor Technical Data-GM37-35BY212 (800PPS)

减速比 /Reduction ratio	10	30	50	90	210	270	310	390	510	630	810
级数 /Stage	2	3	3	4	4	4	5	5	5	5	5
减速箱长度 /Gearbox Length(mm)	17.9	21.8	21.8	24.6	24.6	24.6	26.8	26.8	26.8	26.8	26.8
步进角 /Step Angle	0.750	0.250	0.150	0.083	0.036	0.028	0.024	0.019	0.015	0.012	0.009
输出扭矩（gf.cm）/Pull-out Torque	1200	3150	5250	8100	18900	24300	23250	29250	38250	47250	60750
转速 /Speed(rpm)	100.00	33.33	20.00	11.11	4.76	3.70	3.23	2.56	1.96	1.59	1.23

*Comment: The length of shaft and parameters can be customized according to customer requirements.

42BY212





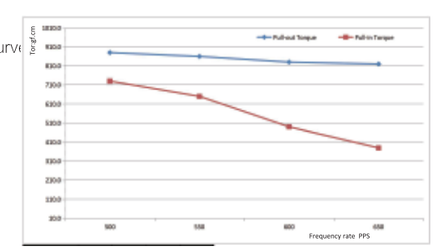
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
42BY212	7.5	2-2 Phase	5.0	10	500	100.0	450.0	500VDC 100MΩ↑	≤50dB	-10~50	51

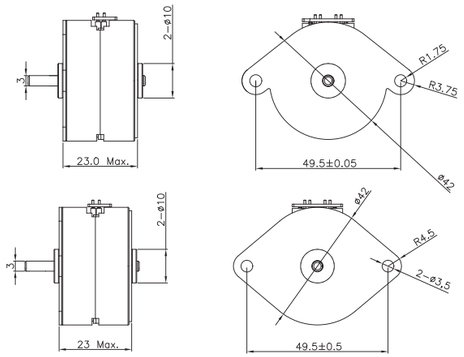
*Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线
Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
500	880.0	730.0
550	860.0	650.0
600	830.0	490.0
650	820.0	380.0

42BY212-1



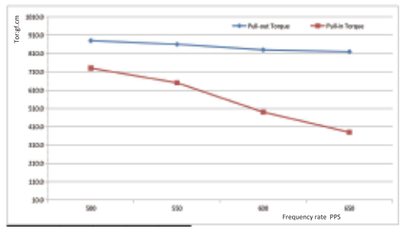
电机技术参数/Motor Technical Data

电机尺寸/Dimensional Drawing(mm)

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
42BY212	7.5	2-2 Phase	12	10	600	140	400	500VDC 100MΩ↑	≤50dB	-10~50	23

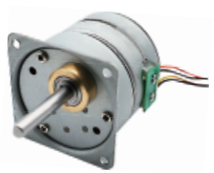
*Comment: The length of shaft and parameters can be customized according to customer requirements.

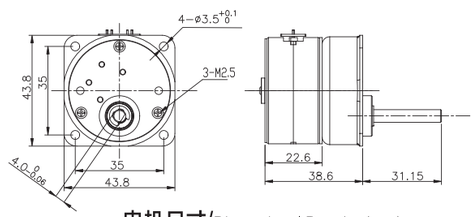
电机性能曲线
Motor Performance Curve



Frequency	Pull-out Torque	Pull-in Torque
500	880.0	730.0
550	860.0	650.0
600	830.0	490.0
650	820.0	380.0

GM37-42BYJ212





电机技术参数/Motor Technical Data

电机尺寸/Dimensional Drawing(mm)

电机型号 Motor Model	步进角 Step angle	励磁模式 Excitation Mode	电压 Voltage	电阻/相 Resistance/Phase	电流/相 Current/Phase	自定位转矩 Detent Torque	保持转矩 HoldingTorque	绝缘电阻 Insulation resistance	噪音 Noise	工作环境温度 Working Temperature	电机厚度 Motor Thickness
	degree		VDC	Ω	mA	gf.cm	gf.cm		dB(A)	℃	mm
GM37-42BYJ212	7.5	2-2 Phase	12	10	600	140	400	500VDC 100MΩ↑	≤50dB	-10~50	14.8

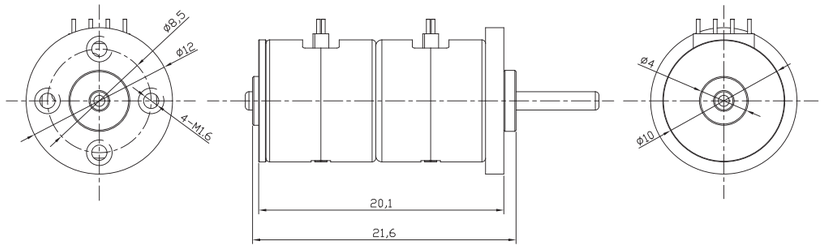
齿轮电机技术参数/Gear motor Technical Data
*Gear Motor Technical Data-GM25-25BY212 (400PPS)

减速比 /Reduction ratio	10										
级数 /Stage	3										
减速箱长度 /Gearbox Length(mm)	19										
步进角 /Step Angle	0.750										
输出扭矩（gf.cm）/Pull-out Torque	2400										
转速 /Speed(rpm)	14.08										

*Comment: The length of shaft and parameters can be customized according to customer requirements.

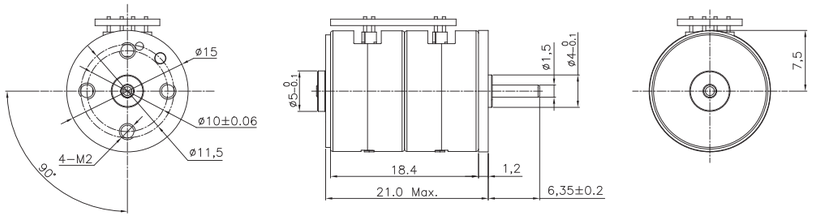
双层系列

10BY25D



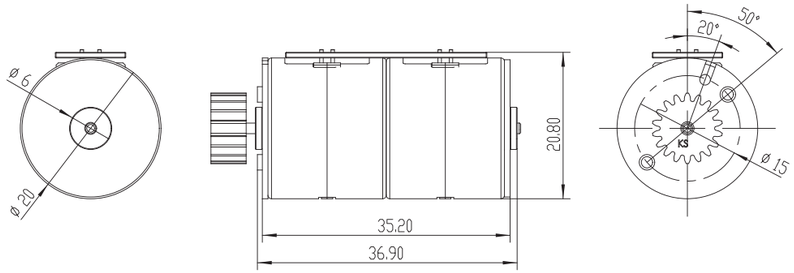
电机尺寸/Dimensional Drawing(mm)

15BY25D



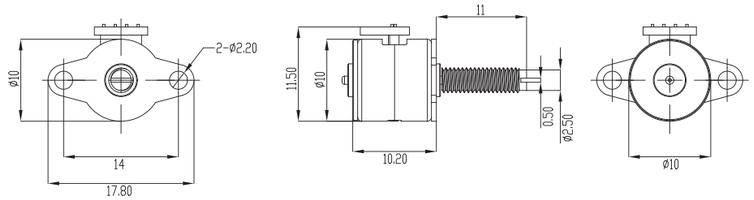
电机尺寸/Dimensional Drawing(mm)

20BY25D



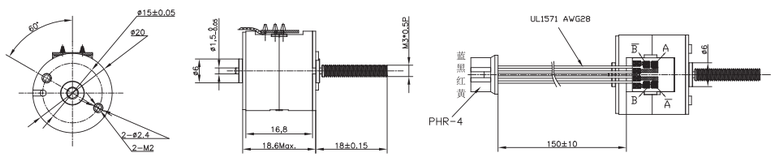
电机尺寸/Dimensional Drawing(mm)

10BY25-M3

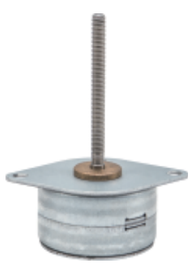


电机尺寸/Dimensional Drawing(mm)

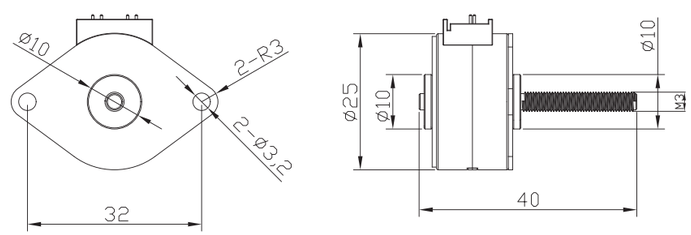
20BY25-M3



电机尺寸/Dimensional Drawing(mm)

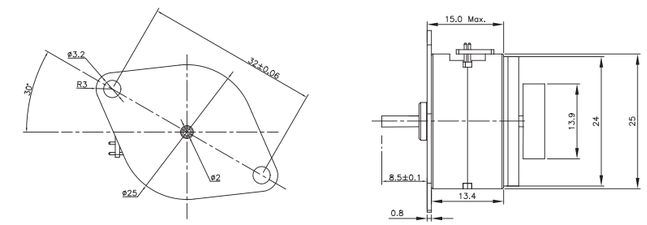


25BY26-M3



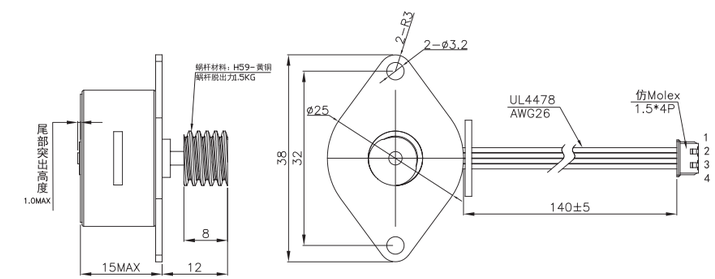
电机尺寸/Dimensional Drawing(mm)

25BY26-EN



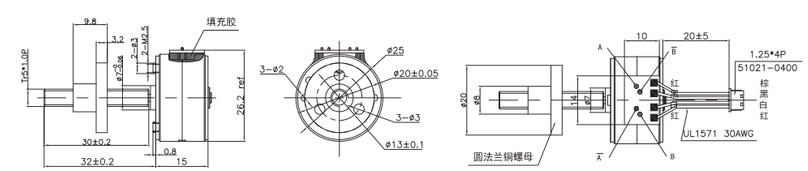
电机尺寸/Dimensional Drawing(mm)

25BY26W



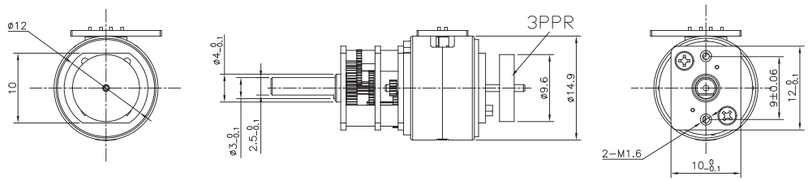
电机尺寸/Dimensional Drawing(mm)

25BY26N



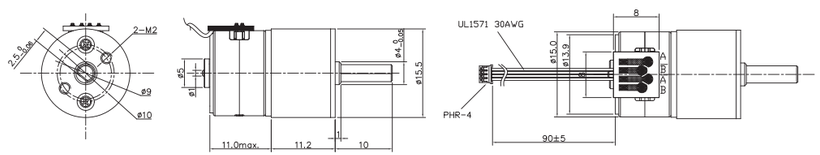
电机尺寸/Dimensional Drawing(mm)

GM12-15BYJ25-EN



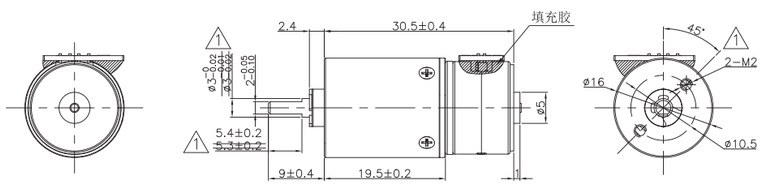
电机尺寸/Dimensional Drawing(mm)

GM16-15BYJ25



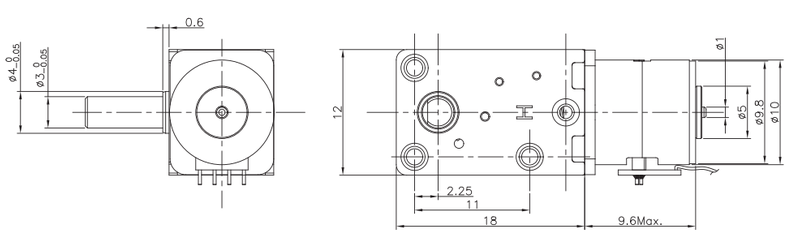
电机尺寸/Dimensional Drawing(mm)

GMP16-15BYJ25



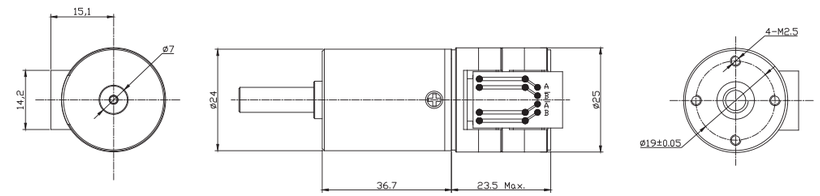
电机尺寸/Dimensional Drawing(mm)

GM1812-10BYJ25



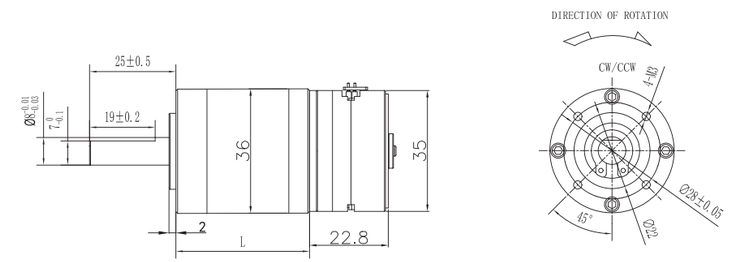
电机尺寸/Dimensional Drawing(mm)

GMP24-25BY26



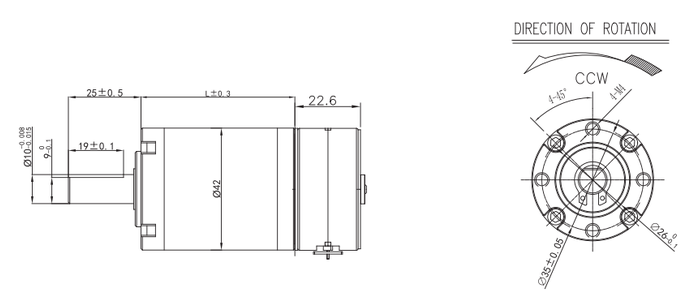
电机尺寸/Dimensional Drawing(mm)

GMP36-35BY212



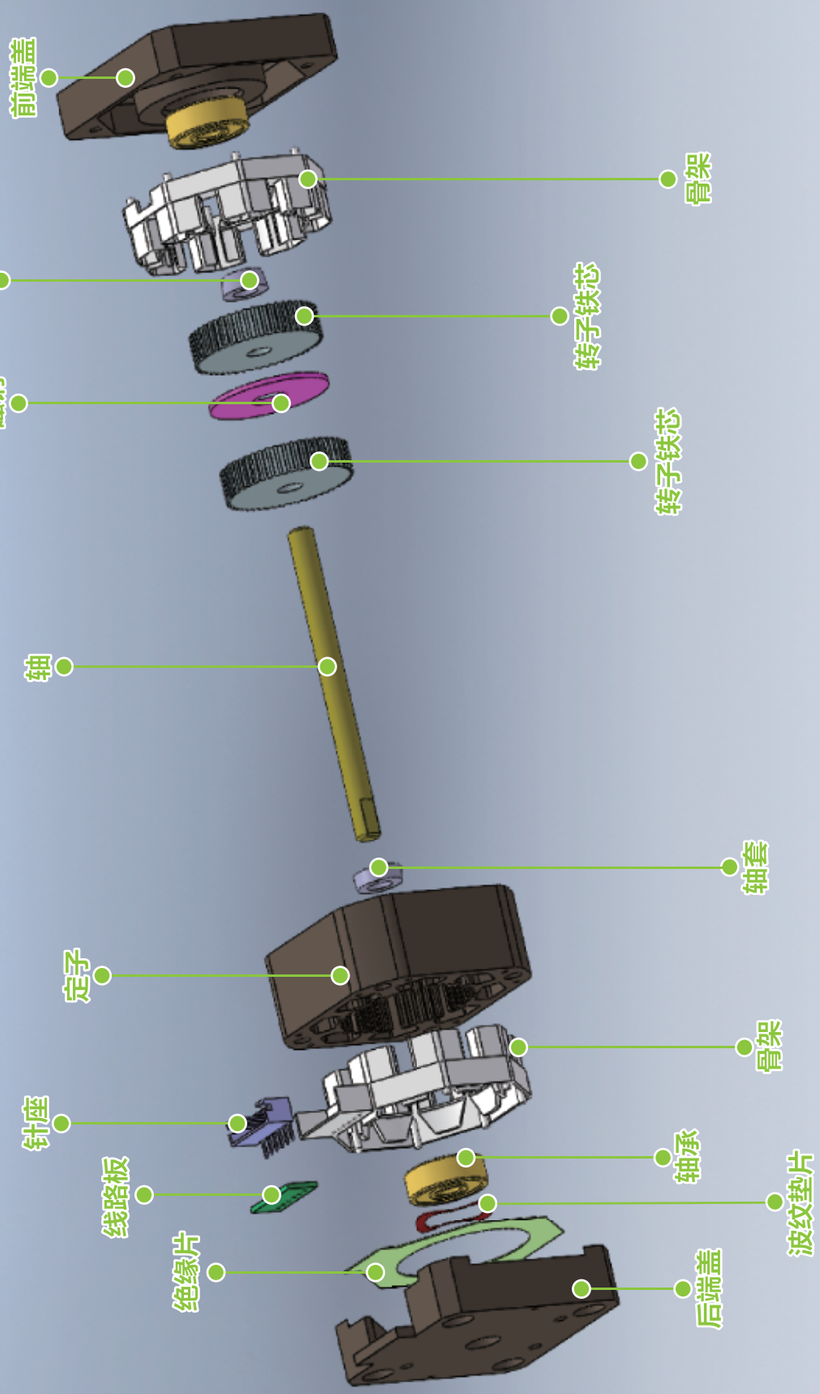
电机尺寸/Dimensional Drawing(mm)

GMP42-42BY212

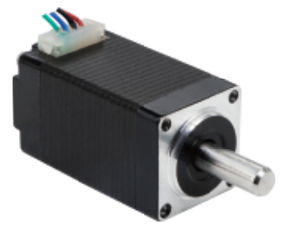


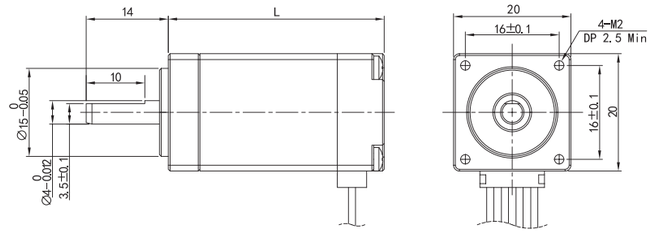
电机尺寸/Dimensional Drawing(mm)

混合步进电机结构图

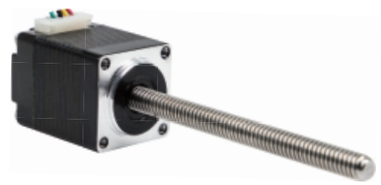


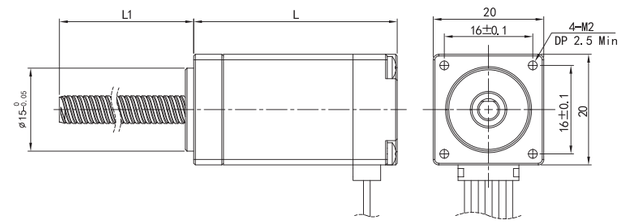
TSL





电机尺寸/Dimensional Drawing(mm)





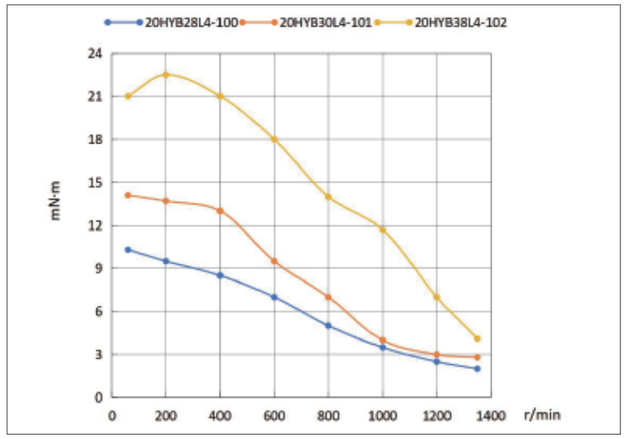
电机尺寸/Dimensional Drawing(mm) 丝杆规格：TR3.5*2 (P=1) TR5*2 (P=1)

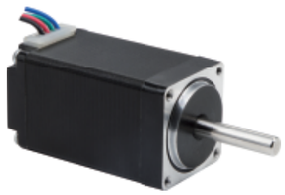
电机技术参数/Motor Technical Data

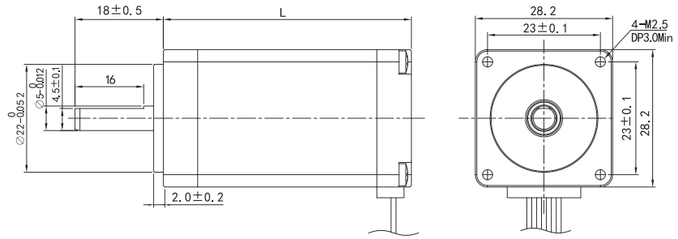
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-20HYB28L4-100	2	1.8	28	6.8	2.3	0.6	0.012	85
KS-20HYB30L4-101	2	1.8	30	6.3	2.5	0.6	0.018	100
KS-20HYB38L4-102	2	1.8	38	9.3	4.0	0.5	0.025	110

Comment: The length of shaft and parameters can be customized according to customer requirements.

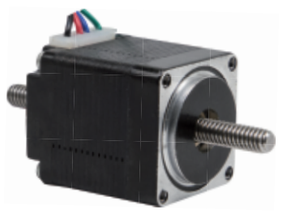
电机性能曲线/Motor Performance Curve

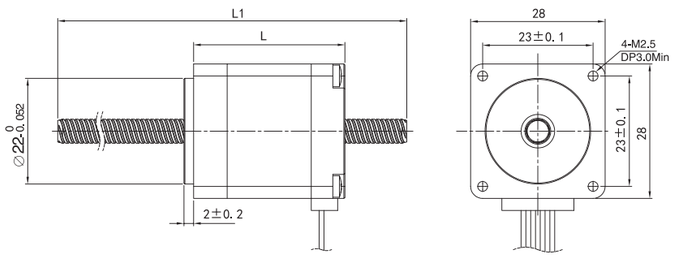






电机尺寸/Dimensional Drawing(mm)





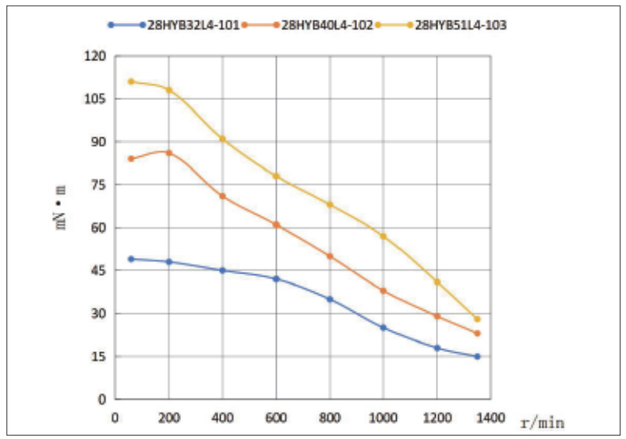
电机尺寸/Dimensional Drawing(mm) 丝杆规格：TR5*4(P1), TR6*6 (P1.5), TR8*2 (P=2)

电机技术参数/Motor Technical Data

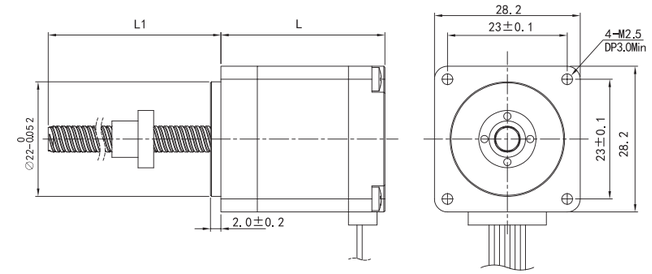
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-28HYB32L4-101	2	1.8	32	8.0	4.5	0.6	0.06	110
KS-28HYB40L4-102	2	1.8	40	8.2	6.1	0.7	0.1	155
KS-28HYB51L4-103	2	1.8	50	9.9	9.6	1.0	0.2	205

Comment: The length of shaft and parameters can be customized according to customer requirements.

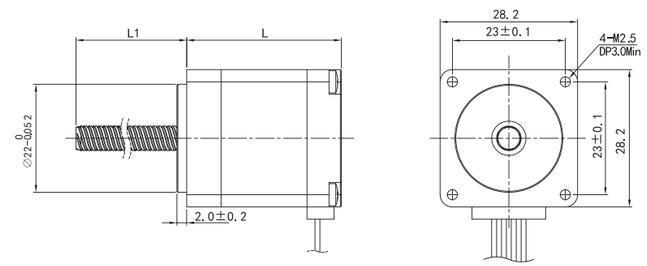
电机性能曲线/Motor Performance Curve



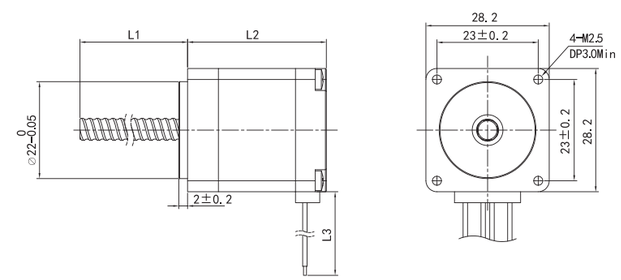
两相步进电机-28系列-1.8° -NEMA11



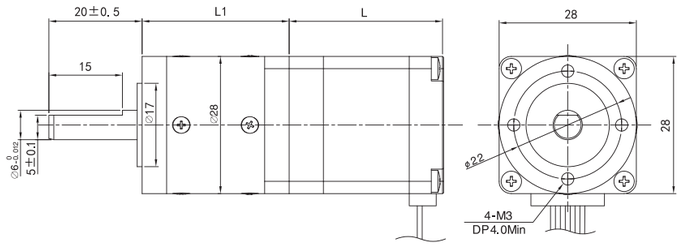
电机尺寸/Dimensional Drawing(mm)



电机尺寸/Dimensional Drawing(mm) 丝杆规格：TR5*4(P1), TR6*6 (P1.5), TR8*2 (P=2)



电机尺寸/Dimensional Drawing(mm)



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

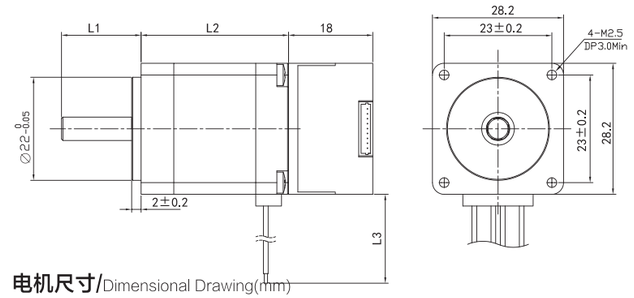
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-28HYB32L4-101	2	1.8	32	8.0	4.5	0.6	0.06	110
KS-28HYB40L4-102	2	1.8	40	8.2	6.1	0.7	0.1	155
KS-28HYB51L4-103	2	1.8	50	9.9	9.6	1.0	0.2	205

减速箱参数/Gear Box specification

减速比 Reduction ratio	5	16	20	27.5	64	80	100	125	256	352	500	625
减速箱级数 Number of gear trains	1	2	2	2	3	3	3	3	4	4	4	4
减速箱长度 Gear Box Length(L2)	19.20	24.90	24.90	24.90	30.60	30.60	30.60	30.60	36.30	36.30	36.30	36.30
最大允许转矩 (Max Permissible Torque) KG.cm	20.0											
瞬间允许最大扭矩 (Moment Permissible Torque)KG.cm	50.0											

Comment: The length of shaft and parameters can be customized according to customer requirements.

两相步进电机-28系列-1.8° -NEMA11



电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-28HYB32L4-101	2	1.8	32	8.0	4.5	0.6	0.06	110
KS-28HYB40L4-102	2	1.8	40	8.2	6.1	0.7	0.1	155
KS-28HYB51L4-103	2	1.8	50	9.9	9.6	1.0	0.2	205

Comment: The length of shaft and parameters can be customized according to customer requirements.

编码器性能/Encoder performance

RY28 系列反射编码器

一、产品简述

RY28系列反射编码器采用PCBA，外壳一体化设计，配合码盘，可输出三通道500~4096CPR 的差分信号。
Z信号可以选择90°，180°和360°，不做特殊说明，标准产品是90°。
本产品适用于小尺寸的直流电机、步进电机和伺服电机。

二、产品型号

RY28 □ □□

CPR:
A—500 I—512
B—1000 J—1024
T—2000 U—2048
W—2500 N—4000
R—4096 Z—5000

轴径尺寸：
01—2mm 02—3mm
03—1/8 in. 04—5/32 in.
05—3/16 in. 06—1/4 in.
11—4mm 12—6mm
14—5mm

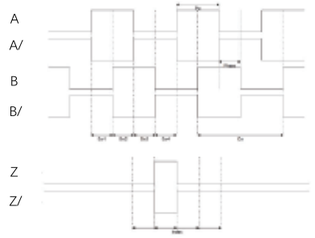
三、技术指标

电源电压	3V—5 V
最大转速	8000 RPM
输出方式	A、A/、B、B/、Z、Z
工作温度	-40℃ to +85℃

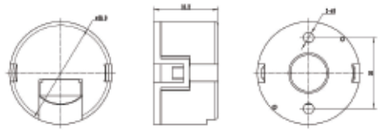
四、接线定义

线号	1	2	3	4	5	6	7	8	9
定义	Vcc	Gnd	A	A/	Z	Z/	N.C.	B	B/

五、波形图

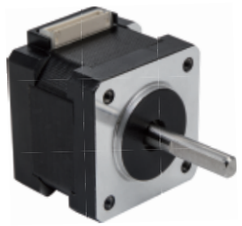


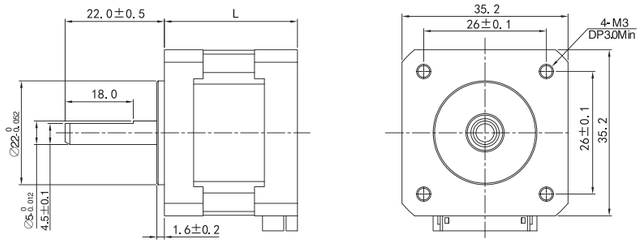
六、机械尺寸



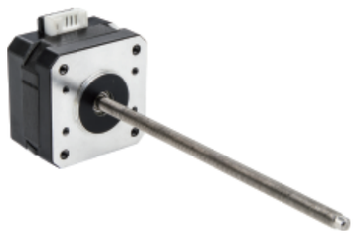
单位：mm

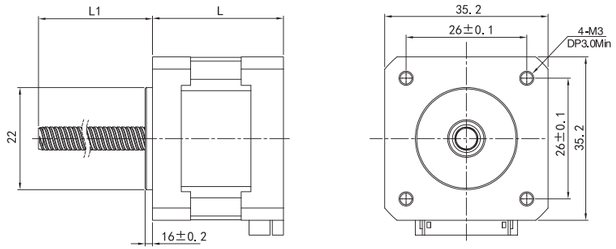
特别注意：20电机后出轴长7+/-0.5，编码器连接头为 SH1.0，9P，间距1.0，固定编码器外壳底座螺钉型号为：2.5*4





电机尺寸/Dimensional Drawing(mm)





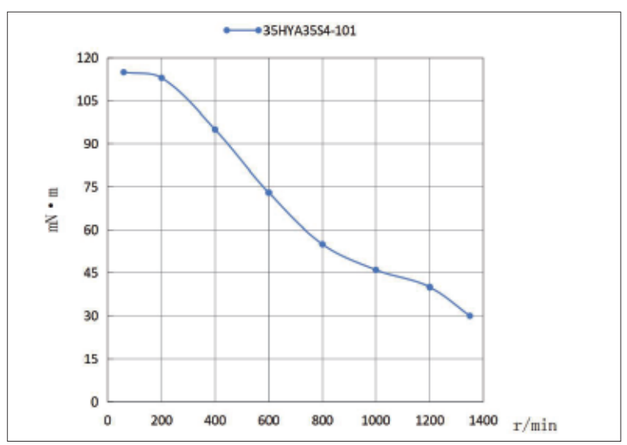
电机尺寸/Dimensional Drawing(mm)　丝杆规格：TR8*4(P2), TR6*4 (P2)

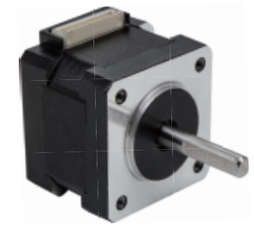
电机技术参数/Motor Technical Data

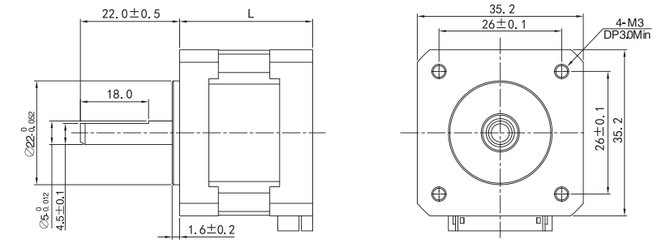
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-35HYA35L4-101	2	0.9	35	1.6	2.2	1.0	0.15	200

Comment: The length of shaft and parameters can be customized according to customer requirements.

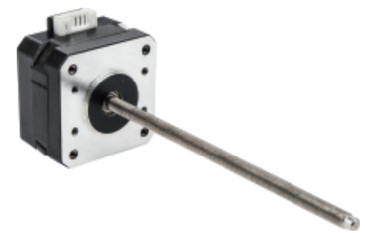
电机性能曲线/Motor Performance Curve

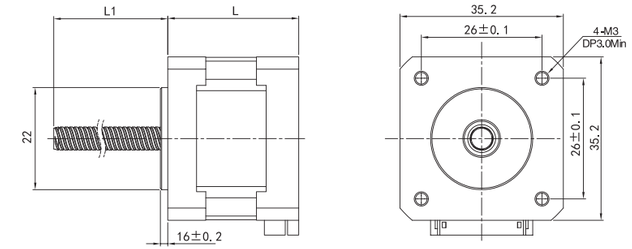






电机尺寸/Dimensional Drawing(mm)





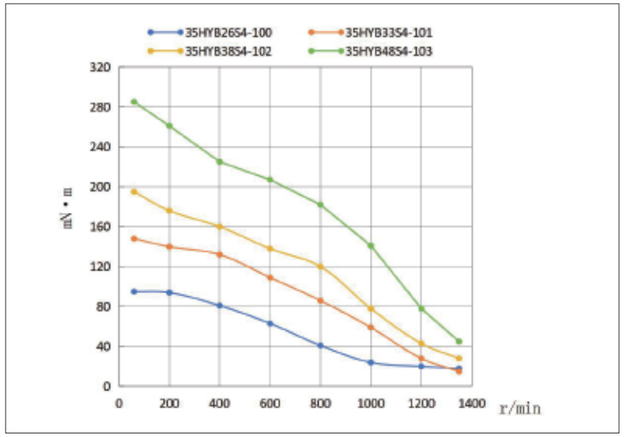
电机尺寸/Dimensional Drawing(mm)　丝杆规格：TR8*4(P2), TR6*4 (P2)

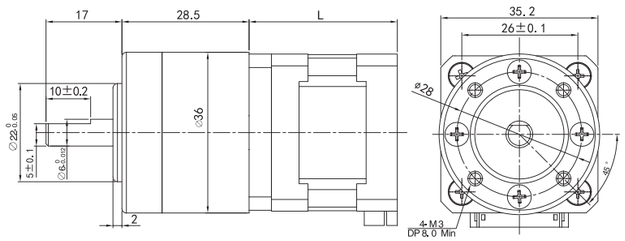
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-35HYB26L4-100	2	1.8	26	1.9	1.8	0.4	0.12	140
KS-35HYB33L4-101	2	1.8	33	3.5	3.6	1	0.2	160
KS-35HYB38L4-102	2	1.8	38	4.5	5.8	1	0.25	180
KS-35HYB48L4-103	2	1.8	48	2.3	2.8	1.2	0.35	190

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





电机尺寸/Dimensional Drawing(mm)

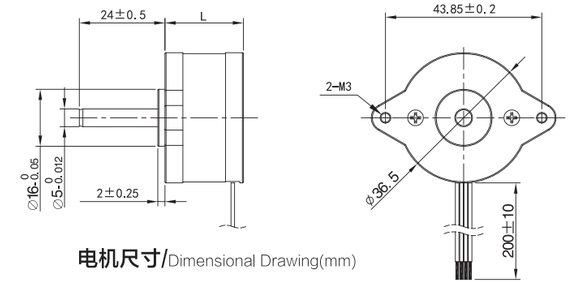
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-35HYB26L4-100	2	1.8	26	1.9	1.8	0.4	0.12	140
KS-35HYB33L4-101	2	1.8	33	3.5	3.6	1	0.2	160
KS-35HYB38L4-102	2	1.8	38	4.5	5.8	1	0.25	180
KS-35HYB48L4-103	2	1.8	48	2.3	2.8	1.2	0.35	190

减速箱参数/Gear Box specification

减速比 Reduction ratio	5.18	14	19	27	50	82	100	139	189	262	369	516
减速箱级数 Number of gear trains	1	2	2	2	3	3	3	3	4	4	4	4
减速箱长度 Gear Box Length(L2)	24.30	30.30	30.30	30.30	36.50	36.50	36.50	36.50	42.70	42.70	42.70	42.70
最大允许转矩 (Max Permissible Torque) KG.cm	25.0											
瞬间允许最大扭矩 (Moment Permissible Torque)KG.cm	60.0											

Comment: The length of shaft and parameters can be customized according to customer requirements.



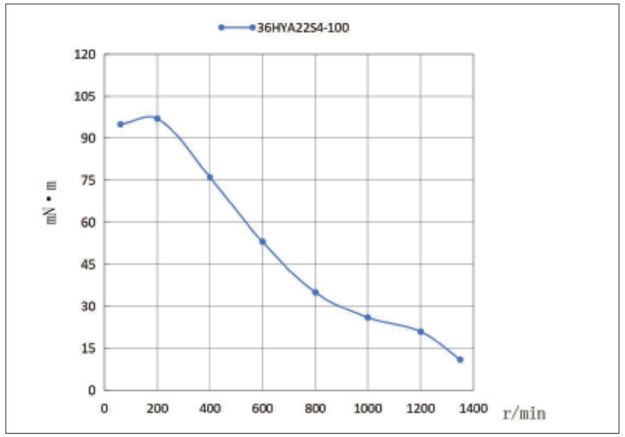
电机尺寸/Dimensional Drawing(mm)

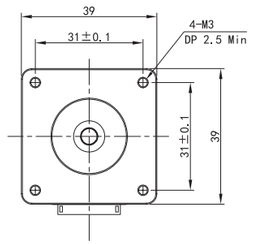
电机技术参数/Motor Technical Data

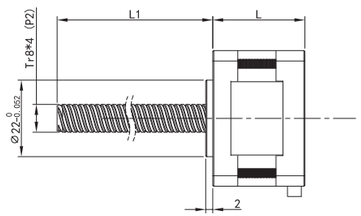
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-36HYA22L4-100	2	0.9	22	13	20	0.7	0.12	150

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve







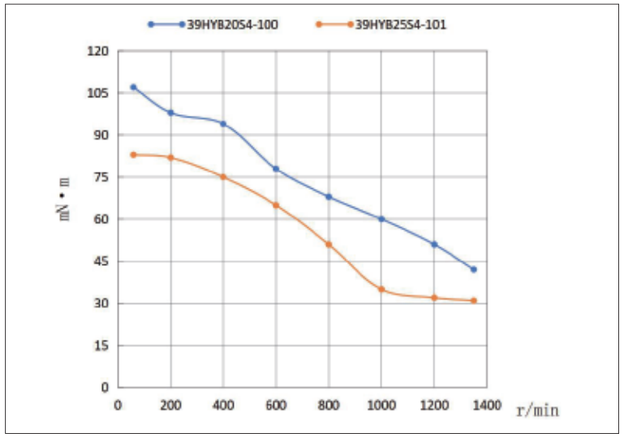
电机尺寸/Dimensional Drawing(mm)　丝杆规格：TR8*4(P=2),TR6*4(P=2)

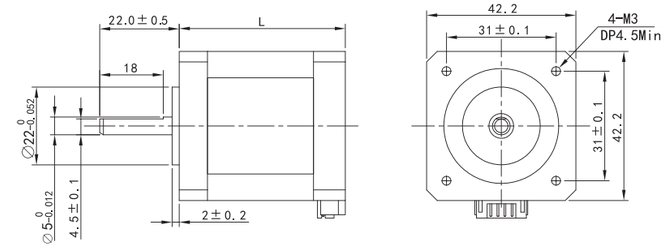
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-39HYB20L4-100	2	1.8	20	9.8	9.4	0.5	0.1	135
KS-39HYB25L4-101	2	1.8	25	28	35	0.5	0.14	150

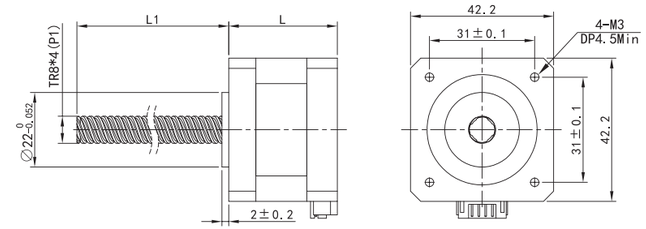
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





电机尺寸/Dimensional Drawing(mm)



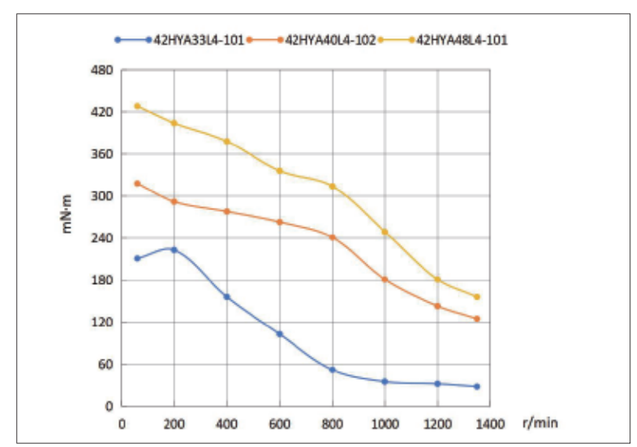
电机尺寸/Dimensional Drawing(mm)　丝杆规格：TR8*4(P=2),TR6*4(P=2)

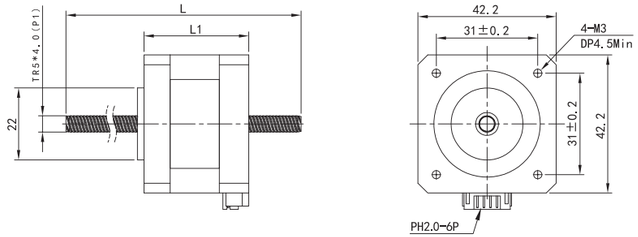
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-42HYA33S4-101	2	0.9	33	4	11.4	1	0.25	210
KS-42HYA40S4-101	2	0.9	40	2	5.7	1.5	0.33	250
KS-42HYA48S4-101	2	0.9	48	2.2	7.5	1.5	0.45	400

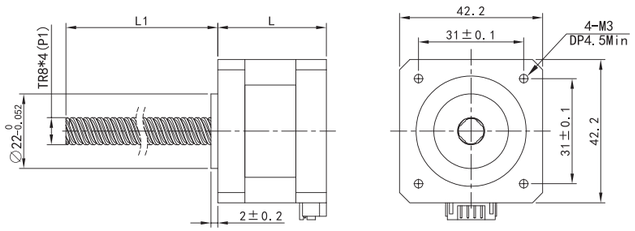
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





电机尺寸/Dimensional Drawing(mm)



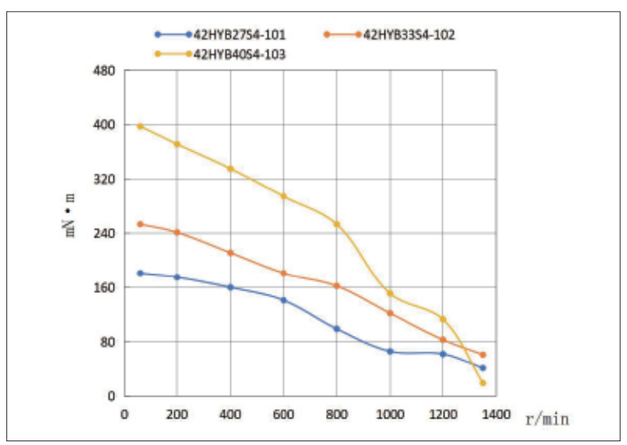
电机尺寸/Dimensional Drawing(mm)　丝杆规格：TR8*4(P=2),TR6*4(P=2)

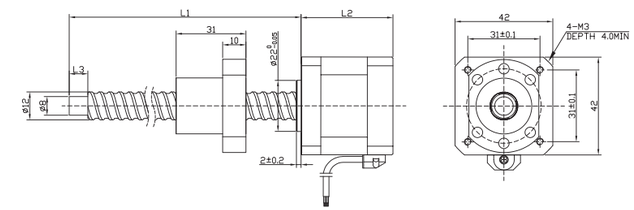
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle	机身厚度 Motor Length	电阻 Phase Resistance	电感 Phase Inductance	电流 Phase Current	力矩 Holding Torque	重量 Moto Weigh
		(deg)	(mm)	(Ohm)	(mH)	(A)	(N.m)	(g)
KS-42HYB27S4-101	2	1.8	27	9.5	10	0.8	0.23	180
KS-42HYB33S4-101	2	1.8	33	3.2	5.3	1.0	0.33	220
KS-42HYB40S4-101	2	1.8	40	1.7	3.7	1.8	0.5	250

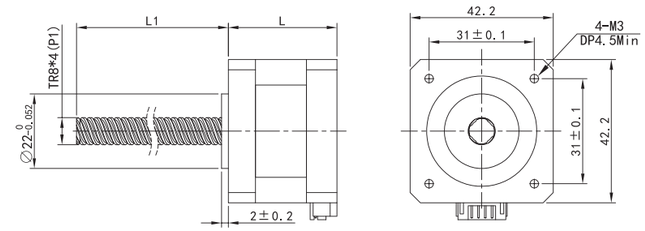
Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





电机尺寸/Dimensional Drawing(mm)



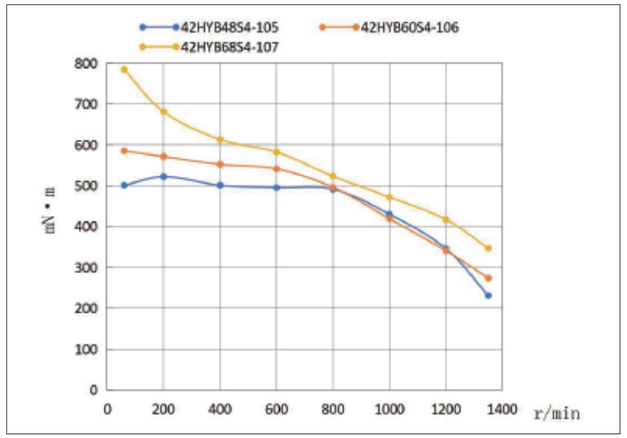
电机尺寸/Dimensional Drawing(mm)　丝杆规格：TR8*4(P=2),TR6*4(P=2)

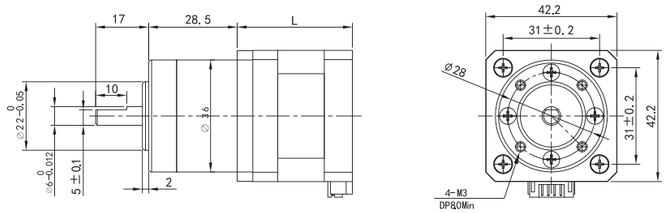
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle	机身厚度 Motor Length	电阻 Phase Resistance	电感 Phase Inductance	电流 Phase Current	力矩 Holding Torque	重量 Motor Weight
		(deg)	(mm)	(Ohm)	(mH)	(A)	(N.m)	(g)
KS-42HYB48S4-101	2	1.8	48	1.8	3.8	1.7	0.62	400
KS-42HYB60S4-101	2	1.8	60	2.6	6.5	1.5	0.75	450
KS-42HYB68S4-101	2	1.8	68	2.2	5.0	2.0	0.9	750

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve





电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

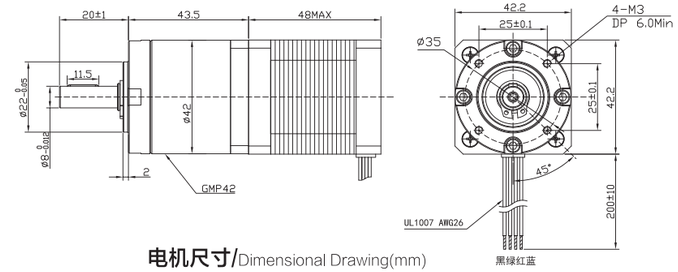
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-42HYB27S4-101	2	1.8	27	9.5	10	0.8	0.23	180
KS-42HYB33S4-101	2	1.8	33	3.2	5.3	1.0	0.33	220
KS-42HYB40S4-101	2	1.8	40	1.7	3.7	1.8	0.5	250

减速箱参数/Gear Box specification

减速比 Reduction ratio	5.18	14	19	27	50	82	100	139	189	262	369	516
减速箱级数 Number of gear trains	1	2	2	2	3	3	3	3	4	4	4	4
减速箱长度 Gear Box Length(L2)	24.30	30.30	30.30	30.30	36.50	36.50	36.50	36.50	42.70	42.70	42.70	42.70
最大允许转矩 (Max Permissible Torque) KG.cm	25.00											
瞬间允许最大扭矩 (Moment Permissible Torque)KG.cm	60.00											

Comment: The length of shaft and parameters can be customized according to customer requirements.

两相步进电机-42系列-1.8° -NEMA17



电机尺寸/Dimensional Drawing(mm)

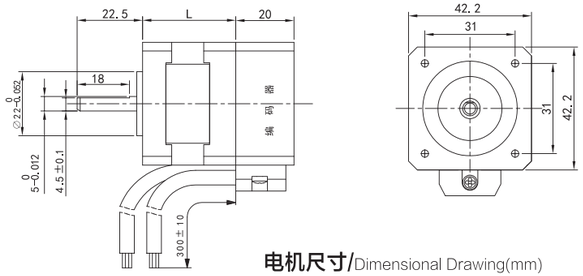
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-42HYB27S4-101	2	1.8	27	9.5	10	0.8	0.23	180
KS-42HYB33S4-101	2	1.8	33	3.2	5.3	1.0	0.33	220
KS-42HYB40S4-101	2	1.8	40	1.7	3.7	1.8	0.5	250

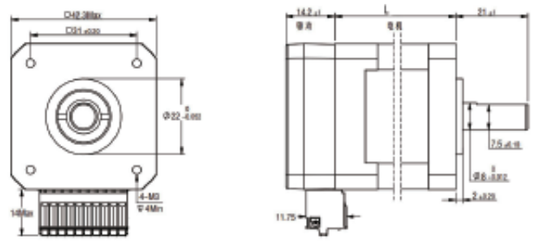
减速箱参数/Gear Box specification

减速比 Reduction ratio	3.7	5.18	14	19	27	50	100	139				
减速箱级数 Number of gear trains	1	1	2	2	3	3	3	3				
减速箱长度 Gear Box Length(L2)	34.60	34.90	45.20	45.20	55.80	55.80	55.80	55.80				
最大允许转矩 (Max Permissible Torque) KG.cm	30.00											
瞬间允许最大扭矩 (Moment Permissible Torque)KG.cm	70.00											

Comment: The length of shaft and parameters can be customized according to customer requirements.



电机尺寸/Dimensional Drawing(mm)

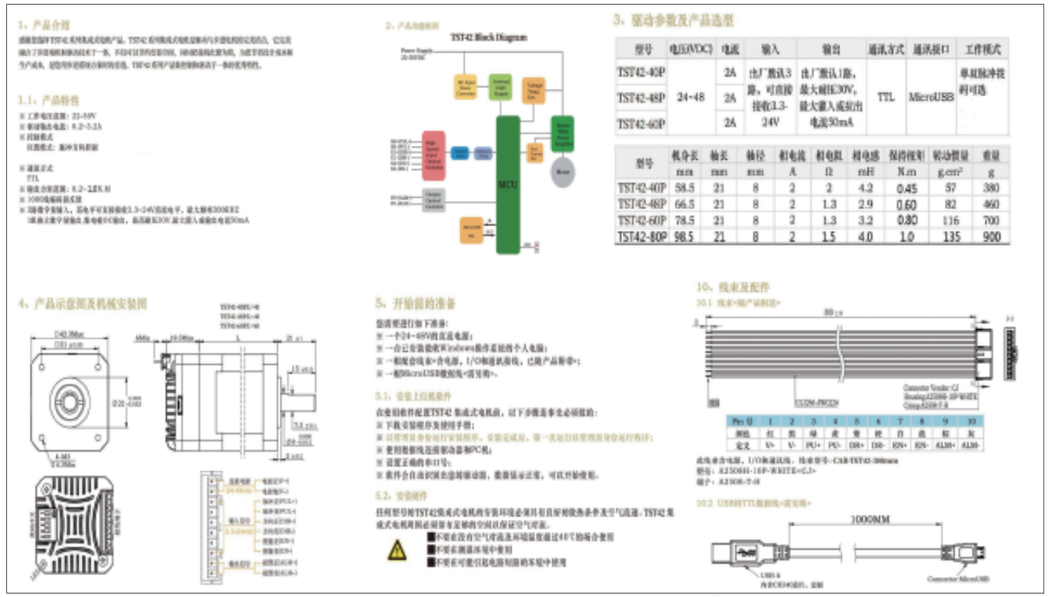


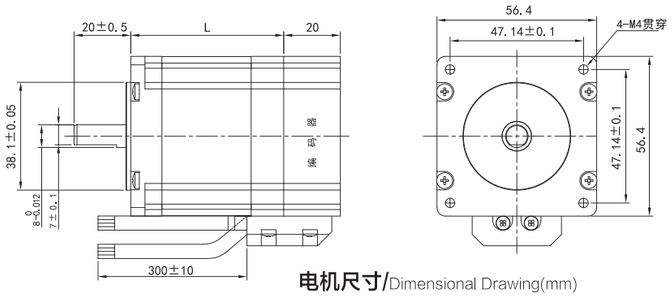
电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-42HYB40L4B-100	2	1.8	40	2.3	4.3	1.5	0.45	280
KS-42HYB48L4B-101	2	1.8	48	1.8	3.2	1.8	0.55	400
KS-42HYB60L4B-102	2	1.8	60	1.5	2.8	1.7	0.75	500

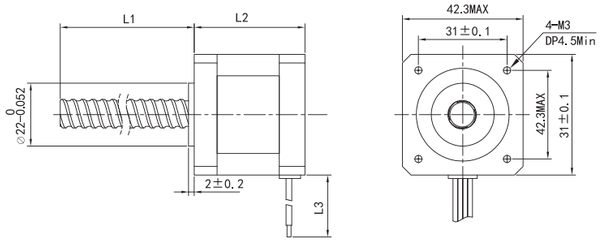
Comment: The length of shaft and parameters can be customized according to customer requirements.

编码器性能/Encoder performance





电机尺寸/Dimensional Drawing(mm)



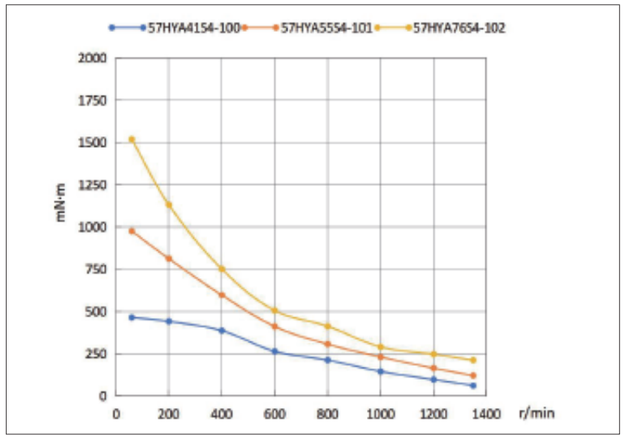
电机尺寸/Dimensional Drawing(mm)

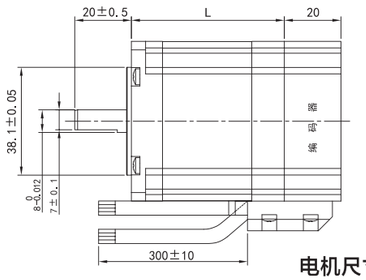
电机技术参数/Motor Technical Data

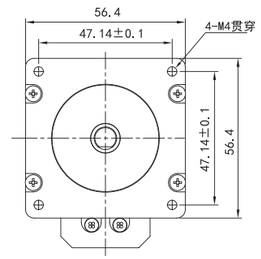
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-57HYB41L4B-100	2	1.8	41	1.2	1.7	2.5	0.7	450
KS-57HYB54L4B-101	2	1.8	54	1.2	3.3	3.0	1.3	700
KS-57HYB76L4B-102	2	1.8	76	0.6	2.0	3.0	2.0	1000

Comment: The length of shaft and parameters can be customized according to customer requirements.

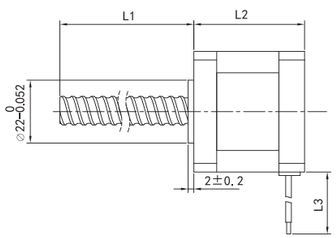
电机性能曲线/Motor Performance Curve

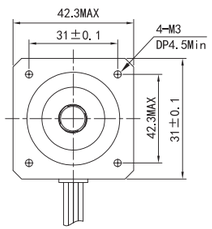






电机尺寸/Dimensional Drawing(mm)





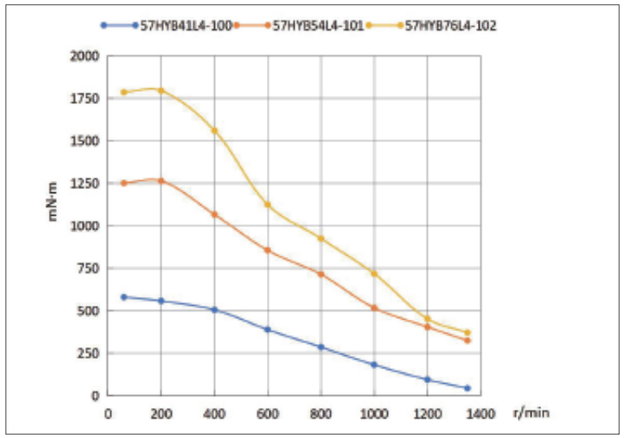
电机尺寸/Dimensional Drawing(mm)

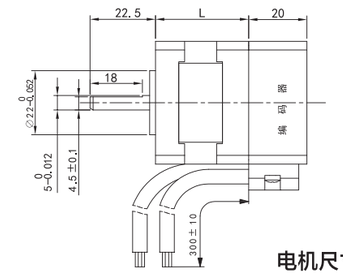
电机技术参数/Motor Technical Data

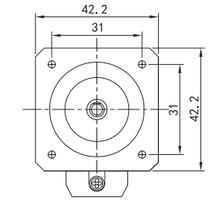
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-57HYB41L4B-100	2	1.8	41	1.2	1.7	2.5	0.7	450
KS-57HYB54L4B-101	2	1.8	54	1.2	3.3	3.0	1.3	700
KS-57HYB76L4B-102	2	1.8	76	0.6	2.0	3.0	2.0	1000

Comment: The length of shaft and parameters can be customized according to customer requirements.

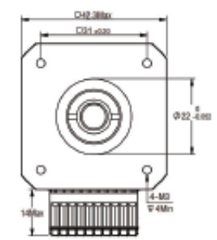
电机性能曲线/Motor Performance Curve

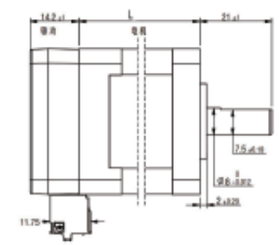






电机尺寸/Dimensional Drawing(mm)



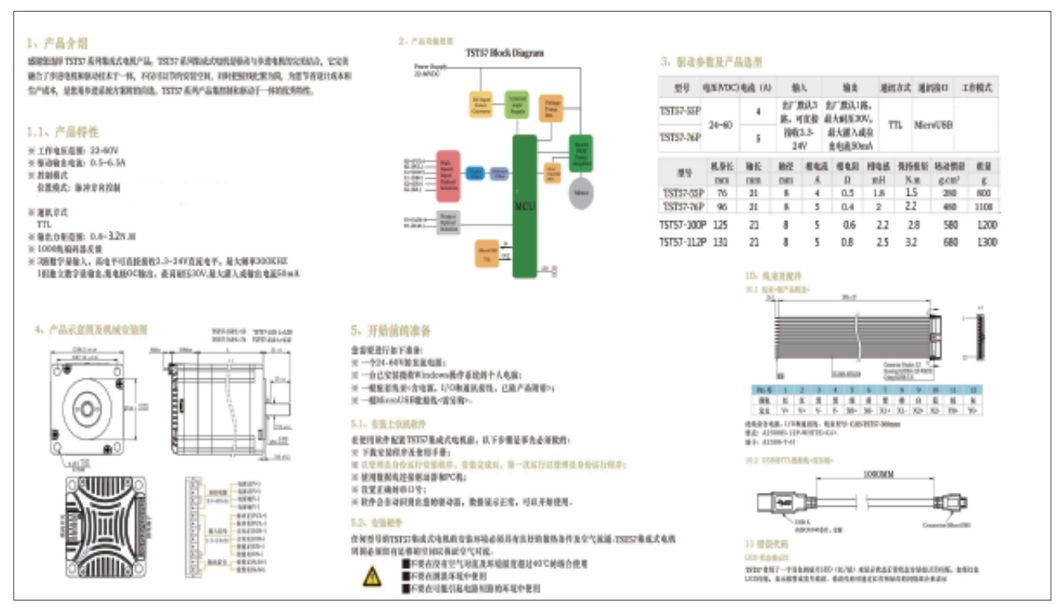


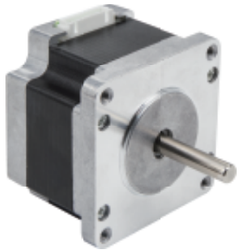
电机技术参数/Motor Technical Data

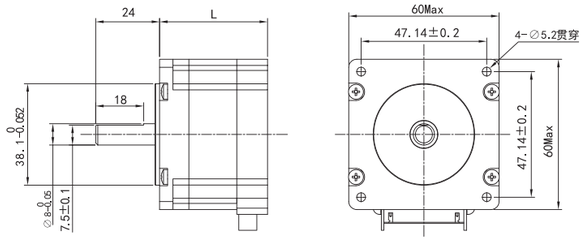
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-57HYB41L4B-100	2	0.9	41	2.6	9.2	0.7	0.6	430
KS-57HYB55L4B-101	2	0.9	55	3.1	21	1.3	1.2	650
KS-57HYB78L4B-102	2	0.9	78	4.3	29	2.0	1.7	1000

Comment: The length of shaft and parameters can be customized according to customer requirements.

编码器性能/Encoder performance







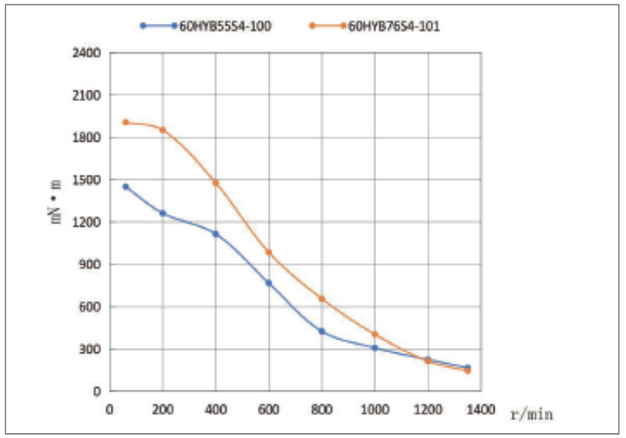
电机尺寸/Dimensional Drawing(mm)

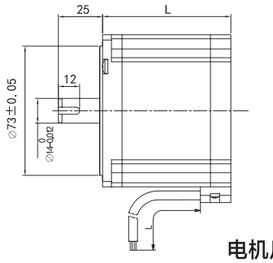
电机技术参数/Motor Technical Data

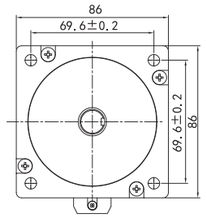
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-60HYB55L4-100	2	1.8	55	0.6	2.3	3.0	1.7	850
KS-60HYB76L4-100	2	1.8	76	1.0	3.5	4.0	2.1	1150

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve







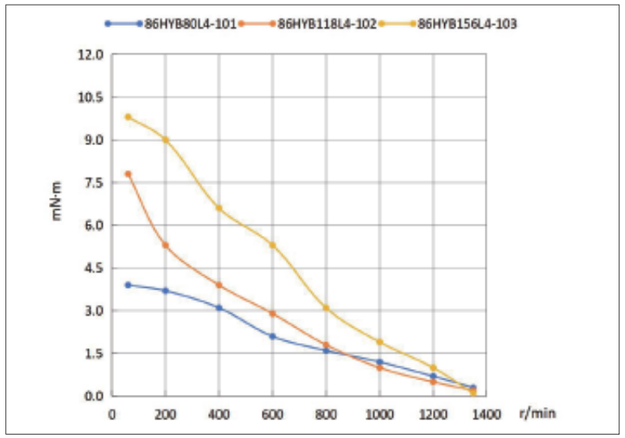
电机尺寸/Dimensional Drawing(mm)

电机技术参数/Motor Technical Data

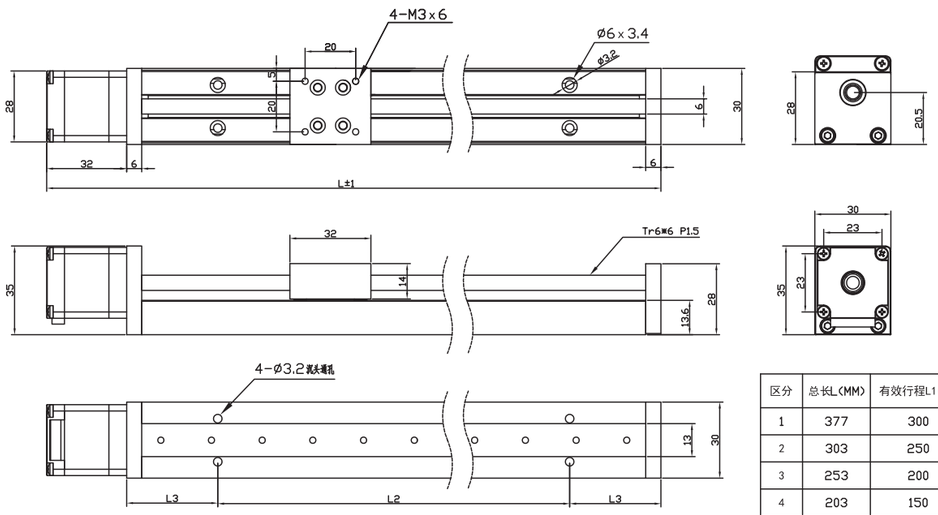
电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-86HYB80L4-101	2	1.8	80	0.3	2.9	6	4.5	2700
KS-86HYB118L4-102	2	1.8	118	0.6	6.0	6	9.0	4100
KS-86HYB156L4-103	2	1.8	156	0.9	11	6	12	6000

Comment: The length of shaft and parameters can be customized according to customer requirements.

电机性能曲线/Motor Performance Curve



电机尺寸/Dimensional Drawing(mm)



区分	总长L(MM)	有效行程L1(mm)
1	377	300
2	303	250
3	253	200
4	203	150
5	153	100
6	103	50

电机技术参数/Motor Technical Data

电机型号 Model	相数 Phase	步距角 Step Angle (deg)	机身厚度 Motor Length (mm)	电阻 Phase Resistance (Ohm)	电感 Phase Inductance (mH)	电流 Phase Current (A)	力矩 Holding Torque (N.m)	重量 Motor Weight (g)
KS-28HYB32L4-110	2	1.8	32	2.8	2.2	0.67	0.07	275

Comment: The length of shaft and parameters can be customized according to customer requirements.

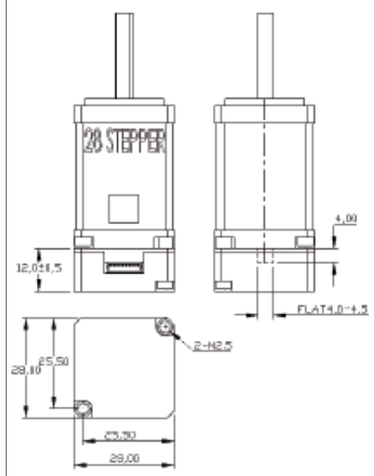
TSL

特点/Characteristic

- MAGNETIC
- AL HOUSING
- INCREMENTAL
- 3.3~5V POWER SUPPLY

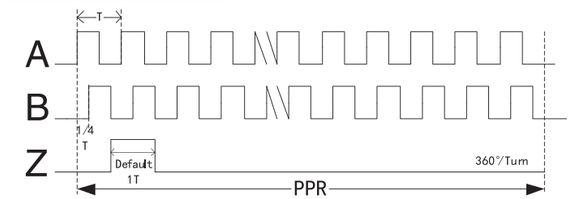
应用/Application

- 20mm STEPPER MOTOR
- ROBOT/MACHINE



编码器接插件端子：
SH1.0MM 8P 卧贴连接器

输出相 OUTPUTS



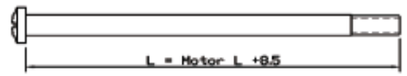
A,B相位差 A,B Phase Diff. : 1/4T ±1/8T
PPR(Pulse Per Revolution): 每转脉冲数
1脉冲宽度 = 1T

线色定义 WIRE DEF.

・L=100mm 注:从电机输出轴(前轴)看进去,逆时针(CCW)方向

线数 LINE NO	紫 PURPLE	蓝 BLUE	绿 GREEN	橙 ORANGE	黄 YELLOW	白 WHITE	黑 BLACK	红 RED
5	VDD	GND		A		B	Z	
6	VDD	GND	A-	A	B-	B		
8	VDD	GND	A-	A	B-	B	Z	Z-

螺丝长度 SCREW LENGTH



型号/Model

RY20R □□ □ □□ □

类型 TYPE
H: 贯穿型
R: 后置型
RA: 后置铝

分辨率 RESOLUTION
01: 50 PPR
02: 100 PPR
03: 200 PPR
04: 500 PPR
05: 512 PPR
06: 1000 PPR
07: 1024 PPR
08: 2000 PPR
09: 2048 PPR
10: 2500 PPR
11: 300 PPR

输出 OUTPUT
V: 电压
C: 互补

输出信号 OUTPUT SIGNAL
20: ABZ (+,-)
30: AB (+,-)
50: ABZ
70: AB

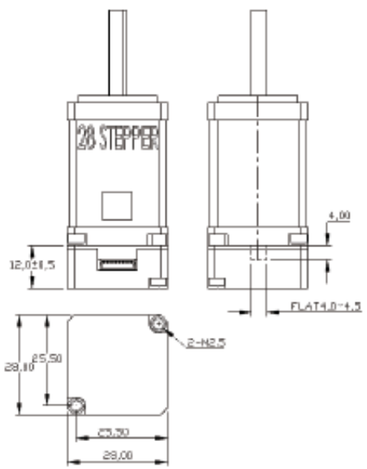
线数 WIRE NO.
8
6
5
4

特点/Characteristic

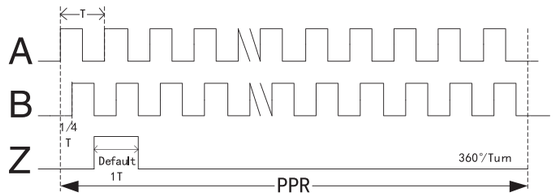
- ABZ+差分 磁编码器
- 100~2500 PPR增量型

应用/Application

- 35mm 步进电机
- 3.3~5V POWER SUPPLY



输出相 OUTPUTS



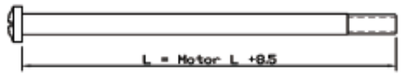
A,B相位差 A,B Phase Diff. : 1/4T ±1/8T
PPR(Pulse Per Revolution): 每转脉冲数
1脉冲宽度 = 1T

线色定义 WIRE DEF.

注:从电机输出轴(前轴)看进去，逆时针(CCW)方向

线数 LINE NO	紫 PURPLE	蓝 BLUE	绿 GREEN	橙 ORANGE	黄 YELLOW	白 WHITE	黑 BLACK	红 RED
5	VDD	GND		A		B	Z	
6	VDD	GND	A-	A	B-	B		
8	VDD	GND	A-	A	B-	B	Z	Z-

螺丝长度 SCREW LENGTH



编码器接插件端子:
SH1.0MM 8P 卧贴连接器

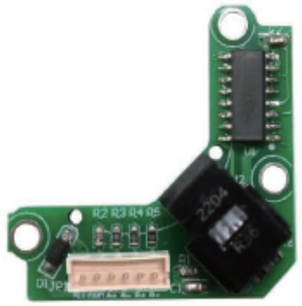
型号/Model

RY28R □ □ □ □ □ □

类型 TYPE	分辨率 RESOLUTION	输出 OUTPUT	输出信号 OUTPUT SIGNAL	线数 WIRE NO.
H: 贯穿型	01: 50 PPR	V: 电压	20: ABZ (+,-)	8
R: 后置型	02: 100 PPR	C: 互补	30: AB (+,-)	6
	03: 200 PPR		50: ABZ	5
	04: 500 PPR		70: AB	4
	05: 512 PPR			
	06: 1000 PPR			
	07: 1024 PPR			
	08: 2000 PPR			
	09: 2048 PPR			
	10: 2500 PPR			

概述/Summary

RS7238系列产品是一款专为步进电机、直流电机等设计的两通道编码器PCBA方案。外径适用于42电机，配合本公司的专用码盘，典型型号RS7238B可输出1000脉冲A、B信号，可用于特种缝纫机，数控机床，机器人，自动化设备等。



选型指南/Selection Guide

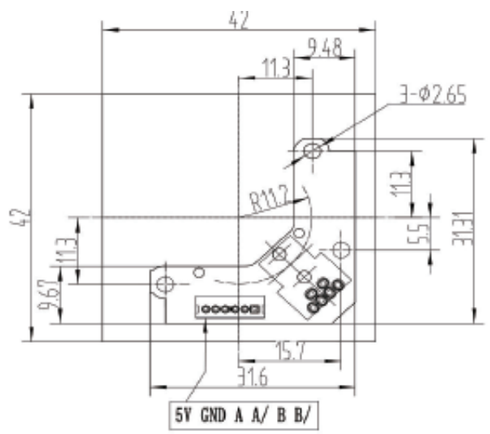
RS7238系列有多样选择，具体选型如下:

RS7238 □ □ □ □

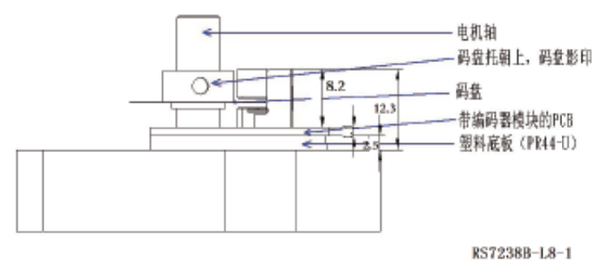
F - 256	H - 400	A - 5 00	L-差分输出	5-适配⌀5mm轴
P - 600	B - 1000	W-2500	D-电压输出	8-适配⌀8mm轴
		*其他CPR可联系我司定制		

0-不带插座	
1-带插座	

外形尺寸/External dimensions



安装示意图/Installation diagram



TSL

特性/Characteristic

- PI控制算法、低噪音、低振动、低发热;
- 信号输入：单端，脉冲+方向及双脉冲;
- 内置微细分、供电：最大可达DC48V；
- 电流设定方便、16档可选，输出电流峰值可达2.2A；静止1S后电流减半
- 出厂默认最高细分128,16档可调，可根据客户要求定制;
- 光隔离差分信号输入,输入脉冲频率最大300KHz；
- 具有过压、欠压报警,相电流过流保护,马达相位开路检测等功能;
- 脉冲,方向和使能端子都有恒流输入功能,可以直接连接输入信号，而不用外加串联电阻降压限流保护。
- 高可靠性:采用多层板和表面贴封，功率器件留有足够余量;

适配20、28、35、39、49的4、6、8线二相步进电机

概述/Summary

DN2522M两相步进电机驱动器是基于PI流控制算法设计的高性价比细分型驱动器，具有优越的性能表现，高速大力矩输出,低噪音，低振动，低发热。

DN2522M驱动器可通过拨码开关选择运行电流和细分， 有16种细分，16种电流供选择， 具有过压，欠压，相电流和总电过流保护，其输入输出控制信号均采用光电隔离。

性能指标/Performance index

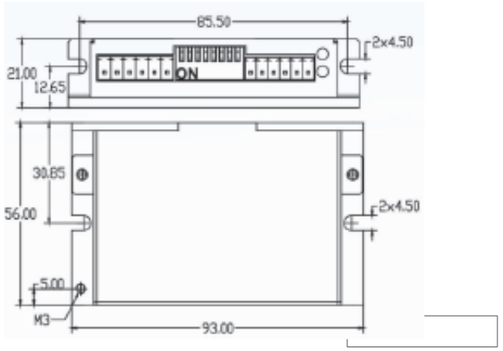
1.电气指标/Electrical indicators

说明	DN2522M			
	最小值	典型值	最大值	单位
输出电流（峰值）	0.2	-	2.2	A
供电电压	24	24	48	VDC
控制信号电流	6	10	16	mA
步进脉冲频率	0	-	300	KHz
步进脉冲宽度	2	-	-	us
方向信号宽度	100	-	-	us
欠压保护点	-	7.5	-	VDC
过压保护点	-	52	-	VDC
驱动器初始化时间	2	-	-	s
绝缘电阻	500			MΩ

2.环境指标/Environmental indicators

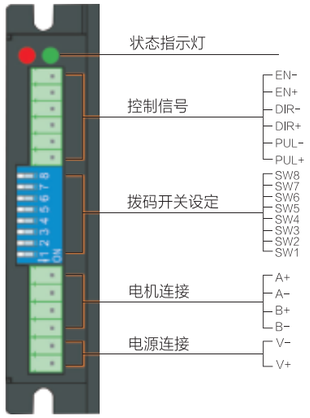
冷却方式	自然冷却或强制风冷	
使用环境	场合	不能放在其他发热的设备旁，要避免粉尘、油污、腐蚀性气体、湿度太大及强振动场所、禁止有可燃气体和导电灰尘；
	温度	0~+50℃
	湿度	40~90%RH
	振动	10~55Hz/0.15mm
保存温度		-20℃~65℃
重量		180g

安装尺寸图/Dimensional drawing

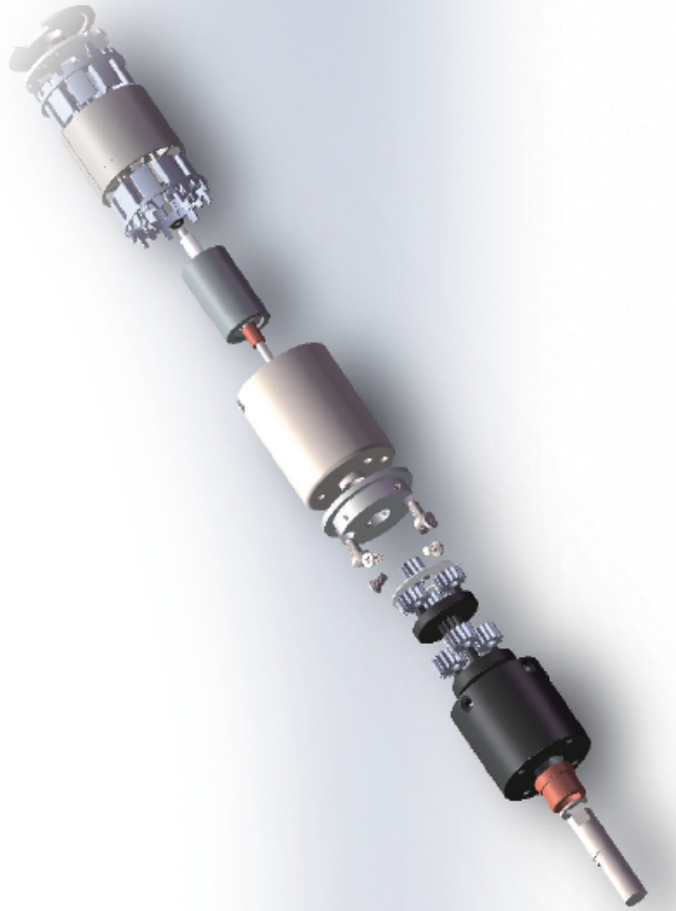


注意
1.不要将电源接反，输入电压不要超过DC48V
2.驱动器通电时绿色指示灯PWR亮

驱动器接线示意图/Wiring diagram



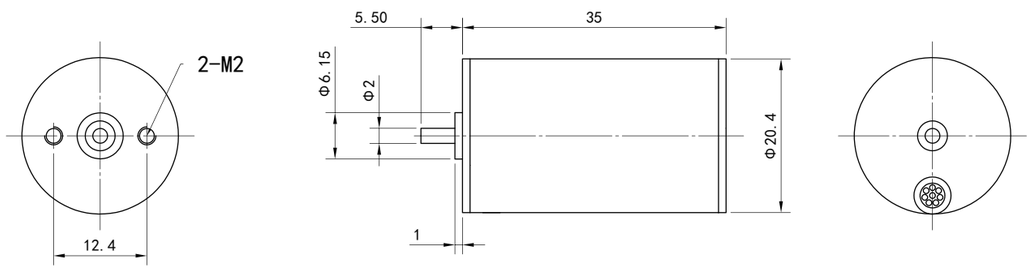
无刷电机结构图



功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder，Brakes

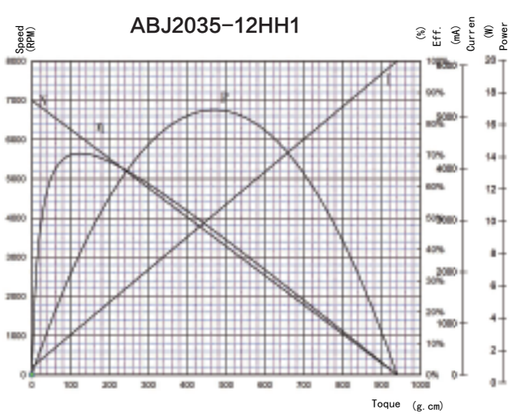
电机尺寸/Dimensional Drawing(mm)

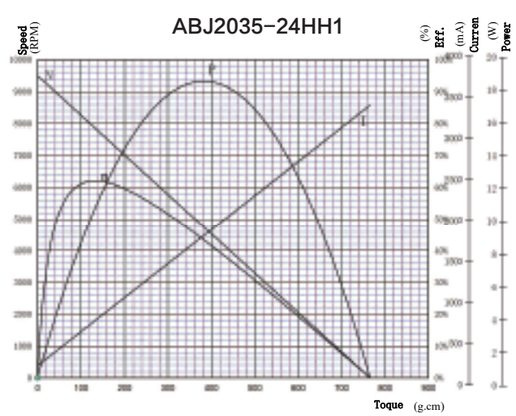


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABJ2035-12HH1	12	7000	0.14	125.0	6000	0.9	11	900	6.00	160	600	7.4
ABJ2035-24HH1	24	9500	0.15	132.0	7800	0.7	17	765	3.50	234	414	12.4

电机性能曲线/Motor Performance Curve

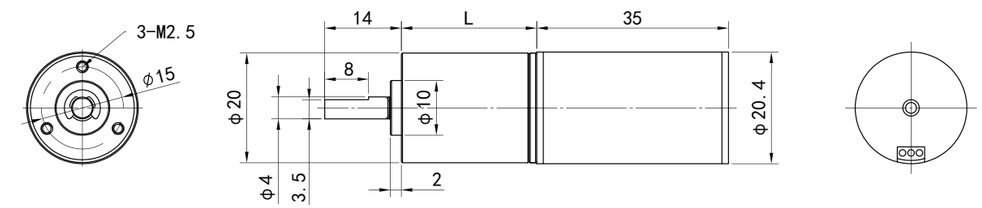




减速箱参数/Gear Technical

模数	m	0.35												
齿数	Z	10/13												
压力角	a	20° 20°												
级数	Series	1		2			3				4			
减速比	Reduction ratio	4.38	5.4	19	23.6	29	84	104	128	157	370	455	560	690	850
长度	L1	16.3		20.5			24.7				28.9				
额定力矩	kgf.cm	1.2		2.1			2.5				3.1				
瞬间允许力矩	kgf.cm	2.8		3.8			5.2				6.1				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	4.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABJ2035-12HH1								ABJ2035-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	7000	0.14	125	6000	0.90	11	900	6.00	9500	0.15	132	7800	0.70	17	765	3.50

减速电机技术参数/Motor Technical Data

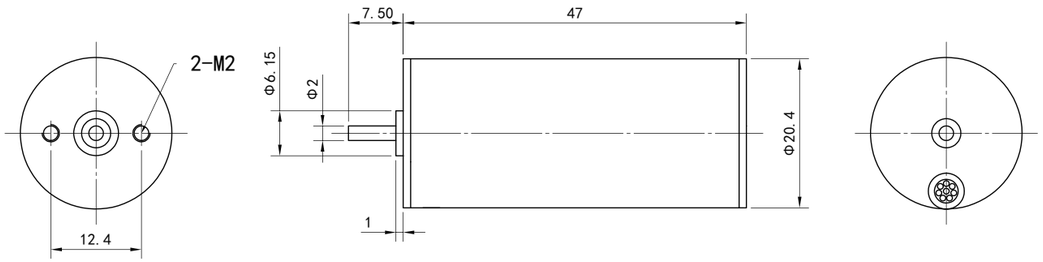
型号 Model	ABJ2035-20GP-12HH1								ABJ2035-20GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
4.38	1598	0.16	0.44	1370	0.9	11	80	51.3	2169	0.15	0.46	1781	0.70	17	80	51.3
5.4	1296	0.16	0.54	1111	0.9	11			1759	0.15	0.57	1444	0.70	17		
19	368	0.16	1.66	316	0.9	11	70	55.5	500	0.15	1.76	411	0.70	17	70	55.5
23.6	297	0.16	2.07	254	0.9	11			403	0.15	2.18	331	0.70	17		
29	241	0.16	2.54	207	0.9	11			328	0.15	2.68	269	0.70	17		
84	83	0.16	3.10	71	0.9	11	60	59.7	113	0.15	3.10	93	0.70	17	60	59.7
104	67	0.16	3.10	58	0.9	11			91	0.15	3.10	75	0.70	17		
128	55	0.16	3.10	47	0.9	11			74	0.15	3.10	61	0.70	17		
157	45	0.16	3.10	38	0.9	11			61	0.15	3.10	50	0.70	17		
370	19	0.16	3.10	16	0.9	11	50	63.9	26	0.15	3.10	21	0.70	17	50	63.9
455	15	0.16	3.10	13	0.9	11			21	0.15	3.10	17	0.70	17		
560	13	0.16	3.10	11	0.9	11			17	0.15	3.10	14	0.70	17		
690	10	0.16	3.10	9	0.9	11			14	0.15	3.10	11	0.70	17		
850	8	0.16	3.10	7	0.9	11			11	0.15	3.10	9	0.70	17		

ABJ2047

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder，Brakes

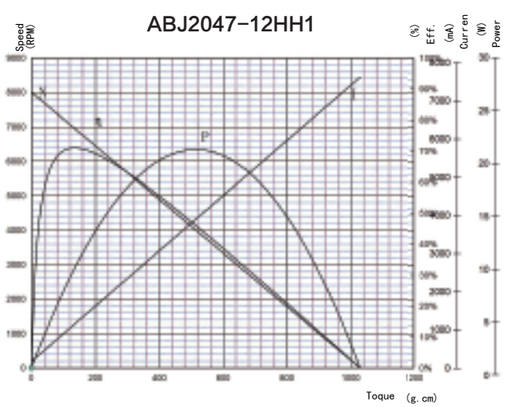
电机尺寸/Dimensional Drawing(mm)

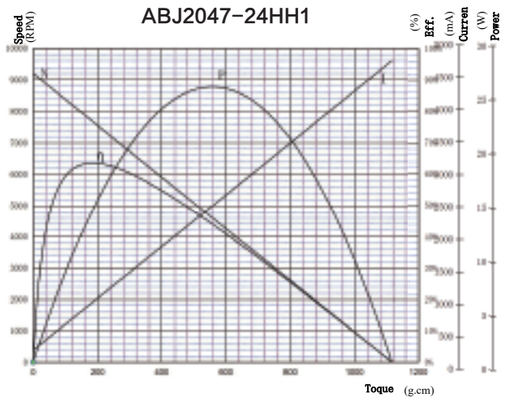


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABJ2047-12HH1	12	8000	0.16	135.0	6900	1.1	13	1000	7.50	140	682	7.8
ABJ2047-24HH1	24	9200	0.19	185.0	7600	0.96	24	1115	4.80	242	399	8.2

电机性能曲线/Motor Performance Curve



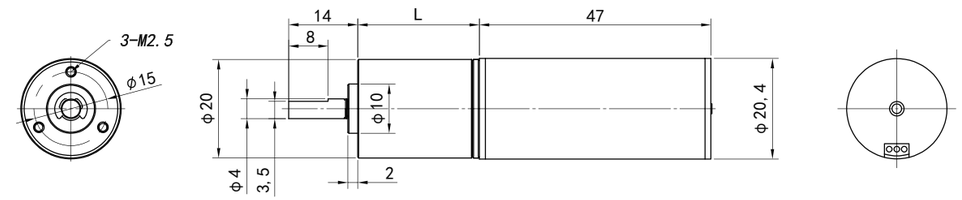


ABJ2047-20GP

减速箱参数/Gear Technical

模数	m	0.35													
齿数	Z	10/13													
压力角	a	20° 20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	4.38	5.4	19	23.6	29	84	104	128	157	370	455	560	690	850
长度	L1	16.3		20.5			24.7				28.9				
额定力矩	kgf.cm	1.2		2.1			2.5				3.1				
瞬间允许力矩	kgf.cm	2.8		3.8			5.2				6.1				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	4.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABJ2047-12HH1								ABJ2047-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	8000	0.16	135	6900	1.10	13	1000	7.50	9200	0.19	185	7600	1.00	24	765	3.50

减速电机技术参数/Motor Technical Data

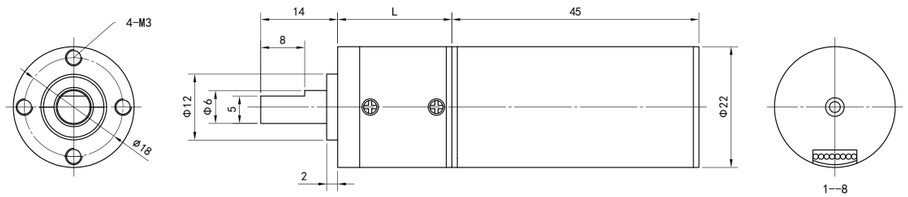
型号 Model	ABJ2047-20GP-12HH1								ABJ2047-20GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
4.38	1826	0.16	0.47	1575	1.1	13	80	63.3	2100	0.2	0.65	1735	1.00	24	80	63.3
5.4	1481	0.16	0.58	1278	1.1	13			1704	0.2	0.80	1407	1.00	24		
19	421	0.16	1.80	363	1.1	13	70	67.5	484	0.2	2.46	400	1.00	24	70	67.5
23.6	339	0.16	2.23	292	1.1	13			390	0.2	3.06	322	1.00	24		
29	276	0.16	2.74	238	1.1	13			317	0.2	3.10	262	1.00	24		
84	95	0.16	3.10	82	1.1	13	60	71.7	110	0.2	3.10	90	1.00	24	60	71.7
104	77	0.16	3.10	66	1.1	13			88	0.2	3.10	73	1.00	24		
128	63	0.16	3.10	54	1.1	13			72	0.2	3.10	59	1.00	24		
157	51	0.16	3.10	44	1.1	13			59	0.2	3.10	48	1.00	24		
370	22	0.16	3.10	19	1.1	13	50	75.9	25	0.2	3.10	21	1.00	24	50	75.9
455	18	0.16	3.10	15	1.1	13			20	0.2	3.10	17	1.00	24		
560	14	0.16	3.10	12	1.1	13			16	0.2	3.10	14	1.00	24		
690	12	0.16	3.10	10	1.1	13			13	0.2	3.10	11	1.00	24		
850	9	0.16	3.10	8	1.1	13			11	0.2	3.10	9	1.00	24		

ABK2245-22GP

减速箱参数/Gear Technical

模数	m	0.3																																	
齿数	Z	60																																	
压力角	a	20°																																	
级数	Series	1			2						3									4															
减速比	Reduction ratio	3.5	5	6	12	18	21	25	30	36	43	61	73	87	105	125	150	180	216	257	306	367	437	525	630	750	900	1080	1296						
长度	L1	20.8			26.3						31.8									37.3															
额定力矩	kgf.cm	1.2			2.8						3.2									4															
瞬间允许力矩	kgf.cm	2.4			4.8						6									7.6															
效率	Efficiency	80			70						60									50															
输出轴直径	Output shaft	4.0/6.0																																	

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABK2245-12HH1								ABK2245-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	18000	0.38	138	16000	2.53	30	1236	20.00	14000	0.24	185	12000	1.38	33	1246	8.00

减速电机技术参数/Motor Technical Data

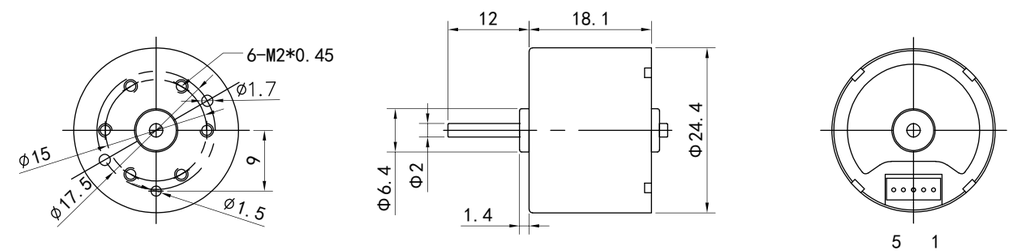
型号 Model	ABK2245-22GP-12HH1								ABK2245-22GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.5	5143	0.42	0.39	4571	2.65	30	80	65.8	4571	0.25	0.52	3429	1.40	33	80	65.8
5	3600	0.42	0.55	3200	2.65	30			3200	0.25	0.74	2400	1.40	33		
6	3000	0.42	0.66	2667	2.65	30			2667	0.25	0.89	2000	1.40	33		
12	1500	0.42	1.16	1333	2.65	30	70	71.3	1333	0.25	1.55	1000	1.40	33	70	71.3
18	1000	0.42	1.74	889	2.65	30			889	0.25	2.33	667	1.40	33		
21	857	0.42	2.03	762	2.65	30			762	0.25	2.72	571	1.40	33		
25	720	0.42	2.42	640	2.65	30			640	0.25	3.24	480	1.40	33		
30	600	0.42	2.90	533	2.65	30			533	0.25	3.89	400	1.40	33		
36	500	0.42	3.48	444	2.65	30			444	0.25	4.66	333	1.40	33		
43	419	0.42	3.56	372	2.65	30	60	76.8	372	0.25	4.77	279	1.40	33	60	76.8
61	295	0.42	5.05	262	2.65	30			262	0.25	6.00	197	1.40	33		
73	247	0.42	6.00	219	2.65	30			219	0.25	6.00	164	1.40	33		
87	207	0.42	6.00	184	2.65	30			184	0.25	6.00	138	1.40	33		
105	171	0.42	6.00	152	2.65	30			152	0.25	6.00	114	1.40	33		
125	144	0.42	6.00	128	2.65	30			128	0.25	6.00	96	1.40	33		
150	120	0.42	6.00	107	2.65	30			107	0.25	6.00	80	1.40	33		
180	100	0.42	6.00	89	2.65	30			89	0.25	6.00	67	1.40	33		
216	83	0.42	6.00	74	2.65	30			74	0.25	6.00	56	1.40	33		
257	70	0.42	6.00	62	2.65	30	50	82.3	62	0.25	6.00	47	1.40	33	50	82.3
306	59	0.42	6.00	52	2.65	30			52	0.25	6.00	39	1.40	33		
367	49	0.42	6.00	44	2.65	30			44	0.25	6.00	33	1.40	33		
437	41	0.42	6.00	37	2.65	30			37	0.25	6.00	27	1.40	33		
525	34	0.42	6.00	30	2.65	30			30	0.25	6.00	23	1.40	33		
630	29	0.42	6.00	25	2.65	30			25	0.25	6.00	19	1.40	33		
756	24	0.42	6.00	21	2.65	30			21	0.25	6.00	16	1.40	33		
900	20	0.42	6.00	18	2.65	30			18	0.25	6.00	13	1.40	33		
1080	17	0.42	6.00	15	2.65	30			15	0.25	6.00	11	1.40	33		
1296	14	0.42	6.00	12	2.65	30			12	0.25	6.00	9	1.40	33		

ABL2418

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

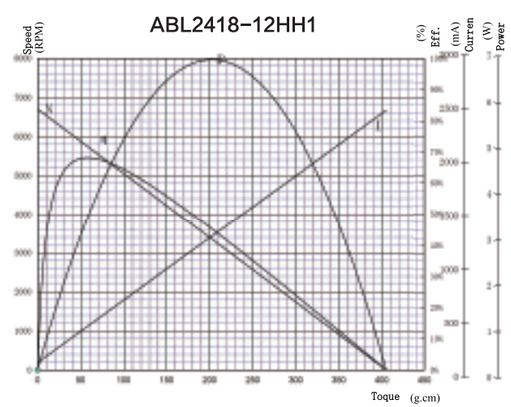
电机尺寸/Dimensional Drawing(mm)

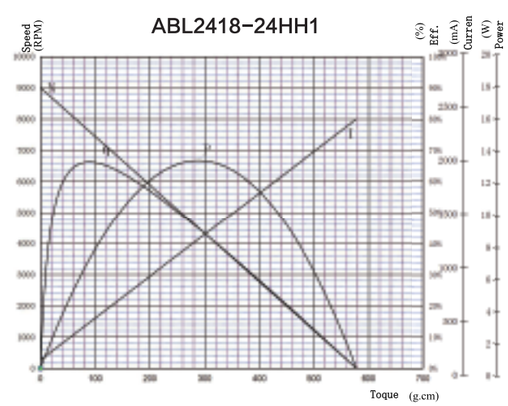


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL2418-12HH1	12	6700	0.07	58.0	5740	0.4	5	405	2.50	167	574	16.5
ABL2418-24HH1	24	9000	0.08	89.0	7611	0.4	10	578	2.40	250	388	15.6

电机性能曲线/Motor Performance Curve



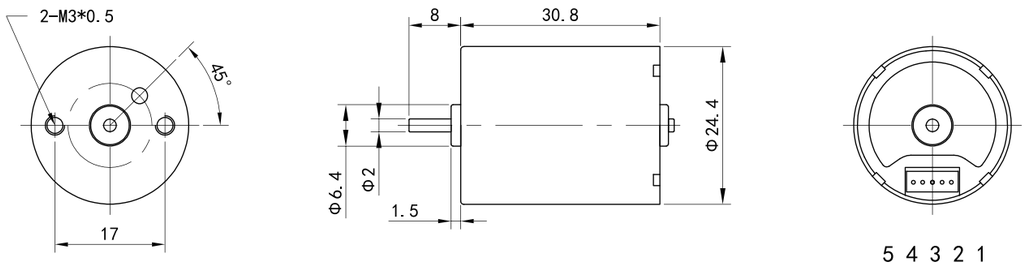


ABL2430

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

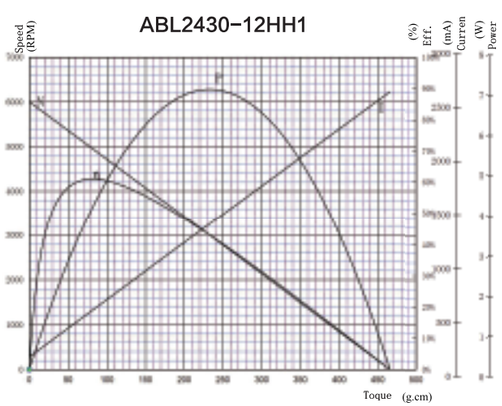
电机尺寸/Dimensional Drawing(mm)

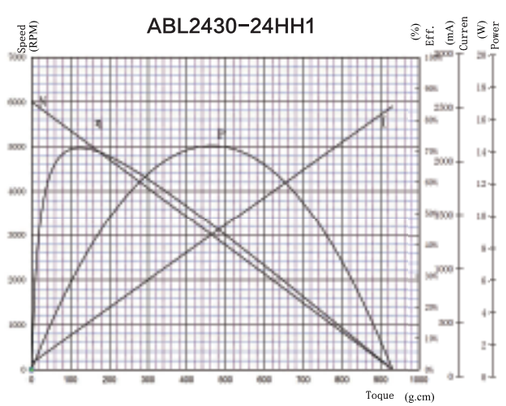


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL2430-12HH1	12	6000	0.12	80.0	4950	0.6	7.2	466	2.70	183	524	12.9
ABL2430-24HH1	24	6000	0.06	120.0	5200	0.4	9.6	930	2.60	378	256	6.4

电机性能曲线/Motor Performance Curve



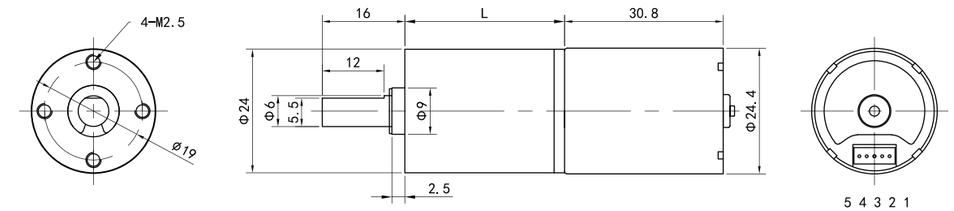


ABL2430-24GP

减速箱参数/Gear Technical

模数	m	0.5														
齿数	Z	9/12														
压力角	a	20°														
级数	Series	1		2			3				4					
减速比	Reduction ratio	4	5	16	20	25	64	80	100	125	256	320	400	500	625
长度	L1	14		19.8			25.5				31.2				
额定力矩	kgf.cm	2.4		3.2			4				4				
瞬间允许力矩	kgf.cm	6.1		6.5			6.5				6.5				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	4.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABL2430-12HH1								ABL2430-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	6000	0.12	81	4950	0.60	7	466	2.70	6000	0.06	120	5200	0.40	10	930	2.60

减速电机技术参数/Motor Technical Data

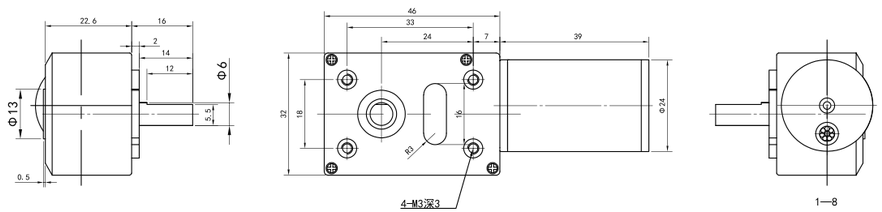
型号 Model	ABL2430-24GP-12HH1								ABL2430-24GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
4	1500	0.12	0.26	1225	0.6	7	80	44.8	1500	0.07	0.38	1300	0.40	10	80	44.8
5	1200	0.12	0.32	980	0.6	7			1200	0.07	0.48	1040	0.40	10		
16	375	0.12	0.91	306	0.6	7	70	50.6	375	0.07	1.34	325	0.40	10	70	50.6
20	300	0.12	1.13	245	0.6	7			300	0.07	1.68	260	0.40	10		
25	240	0.12	1.42	196	0.6	7			240	0.07	2.10	208	0.40	10		
64	94	0.12	3.11	77	0.6	7	60	56.3	94	0.07	4.00	81	0.40	10	60	56.3
80	75	0.12	3.89	61	0.6	7			75	0.07	4.00	65	0.40	10		
100	60	0.12	4.00	49	0.6	7			60	0.07	4.00	52	0.40	10		
125	48	0.12	4.00	39	0.6	7			48	0.07	4.00	42	0.40	10		
256	23	0.12	4.00	19	0.6	7	50	62	23	0.07	4.00	20	0.40	10	50	62
320	19	0.12	4.00	15	0.6	7			19	0.07	4.00	16	0.40	10		
400	15	0.12	4.00	12	0.6	7			15	0.07	4.00	13	0.40	10		
500	12	0.12	4.00	10	0.6	7			12	0.07	4.00	10	0.40	10		
625	10	0.12	4.00	8	0.6	7			10	0.07	4.00	8	0.40	10		

ABJ2439-4632GF

减速箱参数/Gear Technical

模数	m	0.5/0.6										
级数	Series	3						4				
减速比	Reduction ratio	32	52	65	100	155	200	388	467	570	600	990	1013
长度	L1	46										
额定力矩	kgf.cm	8										
瞬间允许力矩	kgf.cm	15										
效率	Efficiency	50										
输出轴直径	Output shaft	6.0										

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABJ2439-12HH1								ABJ2439-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	7500	0.18	135	6400	1.10	14	967	6.60	6500	0.06	145	5700	0.50	12	1200	3.70

减速电机技术参数/Motor Technical Data

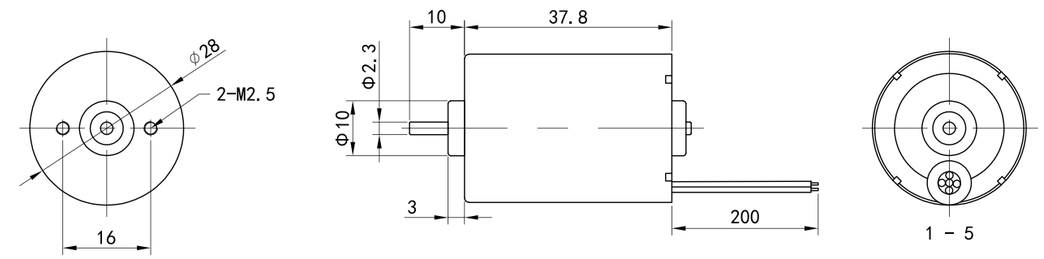
型号 Model	ABJ2439-4632GF-12HH1								ABJ2439-4632GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
32	234	0.18	2.16	200	1.2	14	50	46	203	0.07	2.32	178	0.50	12	50	46
52	144	0.18	3.51	123	1.2	14			125	0.07	3.77	110	0.50	12		
65	115	0.18	4.39	98	1.2	14			100	0.07	4.71	88	0.50	12		
100	75	0.18	6.75	64	1.2	14			65	0.07	7.25	57	0.50	12		
155	48	0.18	8.00	41	1.2	14			42	0.07	8.00	37	0.50	12		
200	38	0.18	8.00	32	1.2	14			33	0.07	8.00	29	0.50	12		
338	22	0.18	8.00	19	1.2	14			19	0.07	8.00	17	0.50	12		
467	16	0.18	8.00	14	1.2	14			14	0.07	8.00	12	0.50	12		
570	13	0.18	8.00	11	1.2	14			11	0.07	8.00	10	0.50	12		
600	13	0.18	8.00	11	1.2	14			11	0.07	8.00	10	0.50	12		
990	8	0.18	8.00	6	1.2	14			7	0.07	8.00	6	0.50	12		
1013	7	0.18	8.00	6	1.2	14			6	0.07	8.00	6	0.50	12		

ABL2838

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

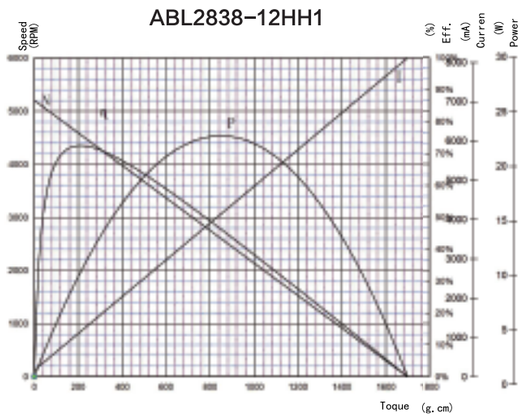
电机尺寸/Dimensional Drawing(mm)

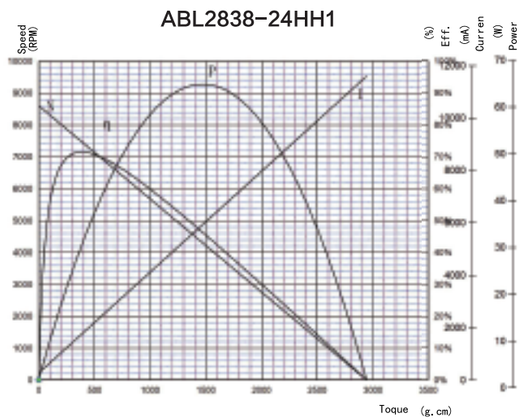


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
								力矩 Torque		转矩常数	转速常数	速度/转矩常数
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL2838-12HH1	12	5200	0.2	200.0	3700	0.9	10	1600	8.00	216	442	3.1
ABL2838-24HH1	24	8600	0.3	250.0	6100	1.1	29	2900	11.00	263	367	2.9

电机性能曲线/Motor Performance Curve



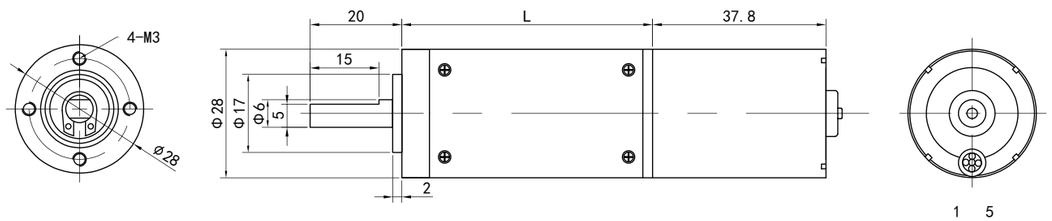


ABL2838-28GP

减速箱参数/Gear Technical

模数	m	0.5													
齿数	Z	11/17													
压力角	a	20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	3.7	5.2	13.7	19	27	51	71	100	139	188	263	370	520	731
长度	L1	27.3		35.4			43.5				54.6				
额定力矩	kgf.cm	5		15			30				50				
瞬间允许力矩	kgf.cm	15		40			80				150				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	4.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABL2838-12HH1								ABL2838-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	5200	0.20	200	3700	0.90	10	1600	8.00	8600	0.30	250	6100	1.10	29	2900	11.00

减速电机技术参数/Motor Technical Data

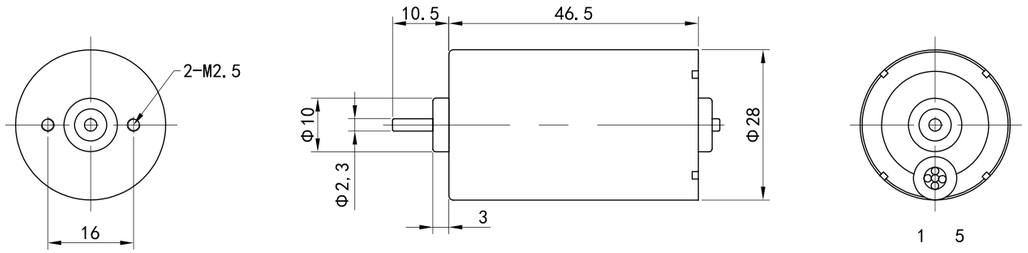
型号 Model	ABL2838-28GP-12HH1								ABL2838-28GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	1405	0.2	0.59	730	0.9	10	80	65.1	2324	0.3	0.74	1649	1.20	29	80	65.1
5.2	1000	0.2	0.83	519	0.9	10			1654	0.3	1.04	1173	1.20	29		
13.7	380	0.2	1.92	197	0.9	10	70	73.2	628	0.3	2.40	445	1.20	29	70	73.2
19.2	271	0.2	2.69	141	0.9	10			448	0.3	3.36	318	1.20	29		
27	193	0.2	3.78	100	0.9	10			319	0.3	4.73	226	1.20	29		
50.5	103	0.2	6.06	53	0.9	10	60	81.3	170	0.3	7.58	121	1.20	29	60	81.3
71	73	0.2	8.52	38	0.9	10			121	0.3	10.65	86	1.20	29		
100	52	0.2	12.00	27	0.9	10			86	0.3	15.00	61	1.20	29		
139	37	0.2	16.68	19	0.9	10			62	0.3	20.85	44	1.20	29		
187.5	28	0.2	18.75	14	0.9	10	50	92.4	46	0.3	23.44	33	1.20	29	50	92.4
263	20	0.2	26.30	10	0.9	10			33	0.3	32.88	23	1.20	29		
370	14	0.2	37.00	7	0.9	10			23	0.3	46.25	16	1.20	29		
520	10	0.2	50.00	5	0.9	10			17	0.3	50.00	12	1.20	29		
731	7	0.2	50.00	4	0.9	10			12	0.3	50.00	8	1.20	29		

ABL2847

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

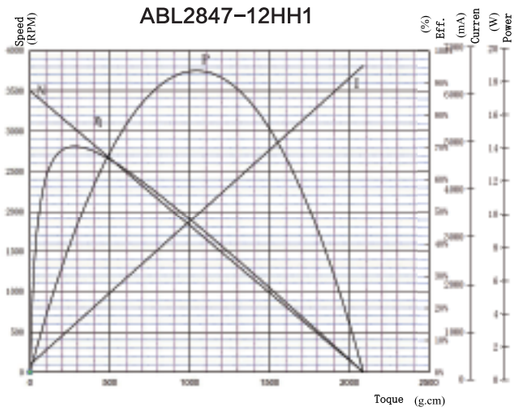
电机尺寸/Dimensional Drawing(mm)

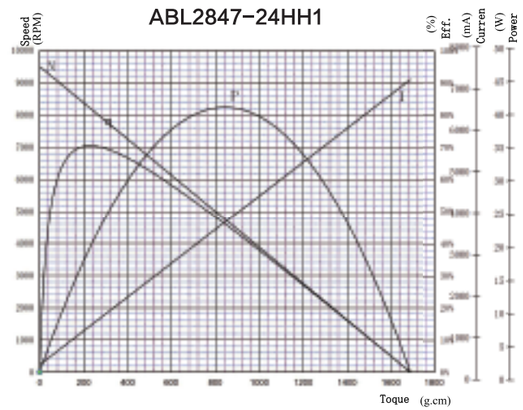


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL2847-12HH1	12	3500	0.16	250.0	3031	1.0	12	2085.4	6.70	320.5	299	1.7
ABL2847-24HH1	24	9500	0.18	300.0	7600	1.2	29	1688.3	7.30	238	406	5.6

电机性能曲线/Motor Performance Curve



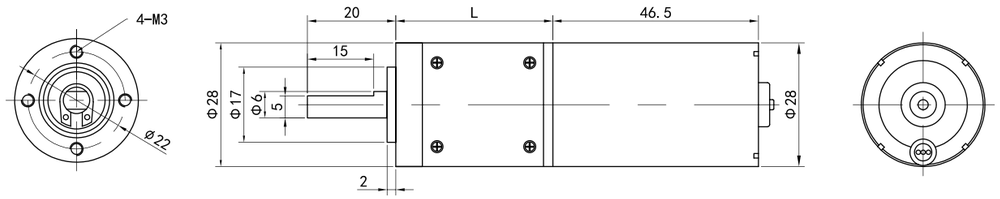


ABL2847-28GP

减速箱参数/Gear Technical

模数	m	0.5													
齿数	Z	11/17													
压力角	a	20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	3.7	5.2	13.7	19	27	51	71	100	139	188	263	370	520	731
长度	L1	27.3		35.4			43.5				54.6				
额定力矩	kgf.cm	5		15			30				50				
瞬间允许力矩	kgf.cm	15		40			80				150				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	4.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABL2847-12HH1								ABL2847-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	3500	0.16	250	3000	1.00	12	2000	6.70	9500	0.18	300	7600	1.20	29	1600	7.30

减速电机技术参数/Motor Technical Data

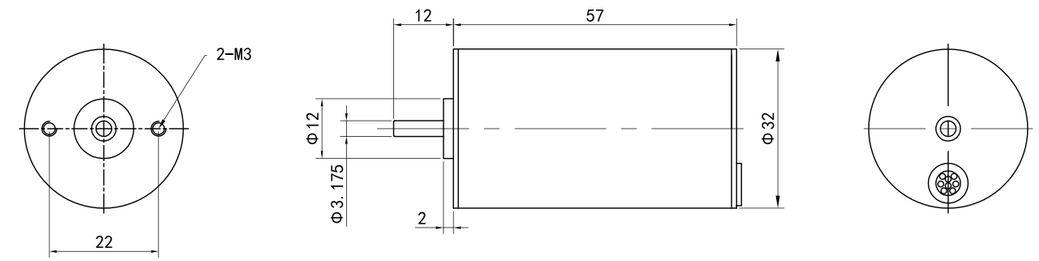
型号 Model	ABL2847-28GP-12HH1								ABL2847-28GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	946	0.16	0.74	811	1	12	80	73.8	2568	0.2	0.89	2054	1.20	29	80	73.8
5.2	673	0.16	1.04	577	1	12			1827	0.2	1.25	1462	1.20	29		
13.7	255	0.16	2.40	219	1	12	70	81.9	693	0.2	2.88	555	1.20	29	70	81.9
19.2	182	0.16	3.36	156	1	12			495	0.2	4.03	396	1.20	29		
27	130	0.16	4.73	111	1	12			352	0.2	5.67	281	1.20	29		
50.5	69	0.16	7.58	59	1	12	60	90	188	0.2	9.09	150	1.20	29	60	90
71	49	0.16	10.65	42	1	12			134	0.2	12.78	107	1.20	29		
100	35	0.16	15.00	30	1	12			95	0.2	18.00	76	1.20	29		
139	25	0.16	20.85	22	1	12			68	0.2	25.02	55	1.20	29		
187.5	19	0.16	23.44	16	1	12	50	101.1	51	0.2	28.13	41	1.20	29	50	101.1
263	13	0.16	32.88	11	1	12			36	0.2	39.45	29	1.20	29		
370	9	0.16	46.25	8	1	12			26	0.2	50.00	21	1.20	29		
520	7	0.16	50.00	6	1	12			18	0.2	50.00	15	1.20	29		
731	5	0.16	50.00	4	1	12			13	0.2	50.00	10	1.20	29		

ABJ3257

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

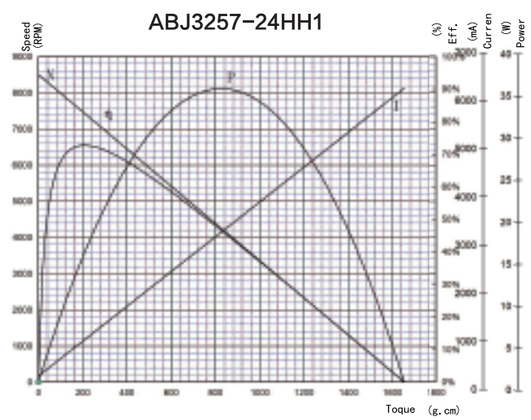
电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABJ3257-12HH1	12	9000	0.35	300.0	6800	1.8	22	1500	10.00	123	776	6.9
ABJ3257-24HH1	24	8500	0.15	400.0	6400	1.2	29	1600	7.50	267	362	5.1

电机性能曲线/Motor Performance Curve



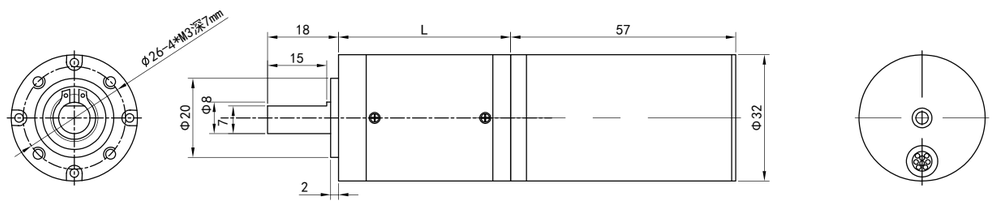
ABJ3257-32GP

TSL

减速箱参数/Gear Technical

模数	m	0.5														
齿数	Z	11/17														
压力角	a	20°														
级数	Series	1		2			3				4					
减速比	Reduction ratio	3.7	5.2	13.7	19	27	51	71	100	139	188	263	370	520	731	
长度	L1	26.3		34.4			42.5				53.6					
额定力矩	kgf.cm	5		15			30				50					
瞬间允许力矩	kgf.cm	15		40			80				150					
效率	Efficiency	80		70			60				50					
输出轴直径	Output shaft	6.0														

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABJ3257-12HH1								ABJ3257-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	9000	0.35	300	6800	1.80	29	1500	10.00	8500	0.15	400	6400	1.20	29	1600	7.50

减速电机技术参数/Motor Technical Data

型号 Model	ABJ3257-32GP-12HH1								ABJ3257-32GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	2432	0.35	0.89	1838	1.8	22	80	83.3	2297	0.15	1.18	1730	1.20	29	80	83.3
5.2	1731	0.35	1.25	1308	1.8	22			1635	0.15	1.66	1231	1.20	29		
13.7	657	0.35	2.88	496	1.8	22	70	91.4	620	0.15	3.84	467	1.20	29	70	91.4
19.2	469	0.35	4.03	354	1.8	22			443	0.15	5.38	333	1.20	29		
27	333	0.35	5.67	252	1.8	22			315	0.15	7.56	237	1.20	29		
50.5	178	0.35	9.09	135	1.8	22	60	99.5	168	0.15	12.12	127	1.20	29	60	99.5
71	127	0.35	12.78	96	1.8	22			120	0.15	17.04	90	1.20	29		
100	90	0.35	18.00	68	1.8	22			85	0.15	24.00	64	1.20	29		
139	65	0.35	25.02	49	1.8	22			61	0.15	33.36	46	1.20	29		
187.5	48	0.35	28.13	36	1.8	22	50	110.6	45	0.15	37.50	34	1.20	29	50	110.6
263	34	0.35	39.45	26	1.8	22			32	0.15	50.00	24	1.20	29		
370	24	0.35	50.00	18	1.8	22			23	0.15	50.00	17	1.20	29		
520	17	0.35	50.00	13	1.8	22			16	0.15	50.00	12	1.20	29		
731	12	0.35	50.00	9	1.8	22			12	0.15	50.00	9	1.20	29		

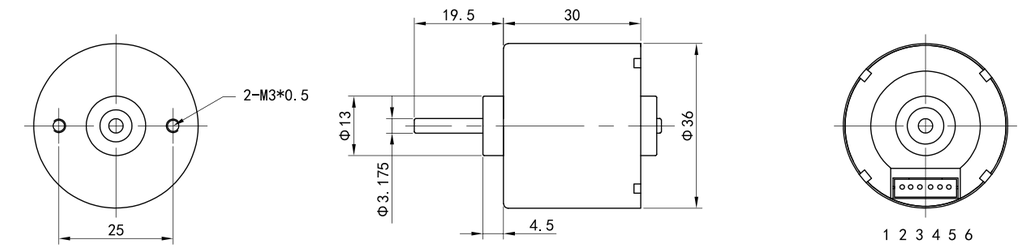
ABL3630

TSL

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

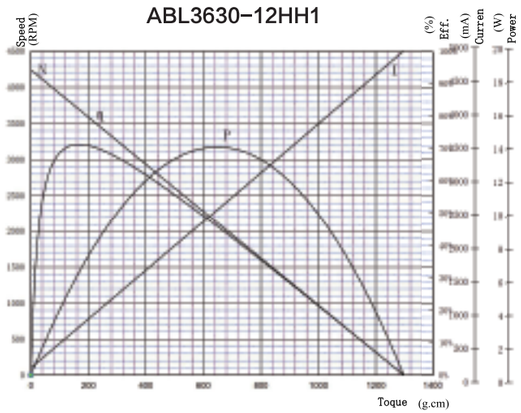
电机尺寸/Dimensional Drawing(mm)

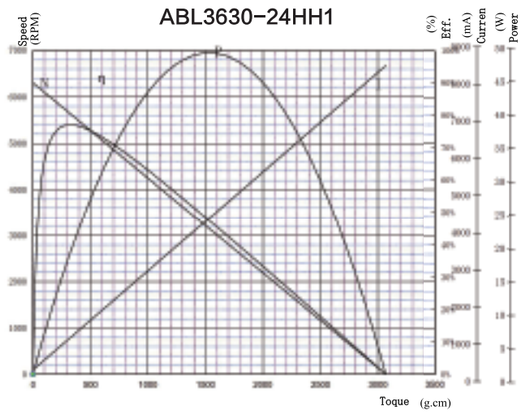


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL3630-12HH1	12	4240	0.11	200.0	3692	0.8	9.6	1297	5.00	265	361	3.3
ABL3630-24HH1	24	6300	0.12	300.0	5633	1.0	24.0	3067	8.60	363	266	3.1

电机性能曲线/Motor Performance Curve



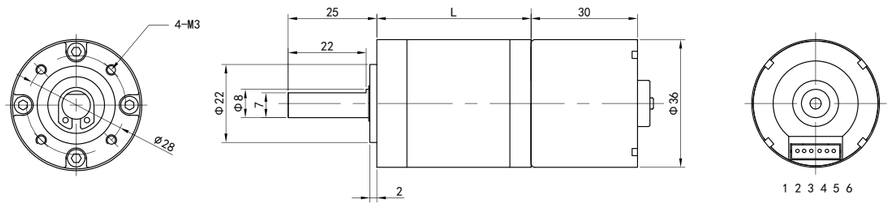


ABL3630-36GP

减速箱参数/Gear Technical

模数	m	0.6													
齿数	Z	12/18													
压力角	a	20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	3.7	5.2	13.7	19	27	51	71	100	139	188	263	370	520	731
长度	L1	27.3		35.4			43.5				54.6				
额定力矩	kgf.cm	5		15			30				50				
瞬间允许力矩	kgf.cm	15		40			80				150				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	8.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABL3630-12HH1								ABL3630-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	4200	0.11	200	3700	0.80	10	1300	5.00	6300	0.12	300	5600	1.00	24	3000	8.50

减速电机技术参数/Motor Technical Data

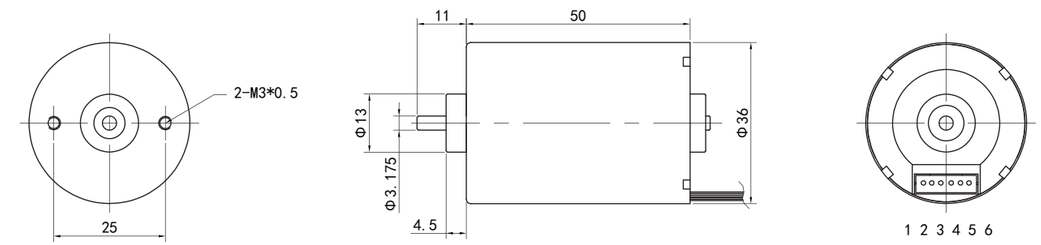
型号 Model	ABL3630-36GP-12HH1								ABL3630-36GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	1135	0.12	0.59	1000	0.8	10	80	57.3	41892	0.45	2.66	3378	3.60	135	80	57.3
5.2	808	0.12	0.83	712	0.8	10			29808	0.45	3.74	2404	3.60	135		
13.7	307	0.12	1.92	270	0.8	10	70	65.4	11314	0.45	8.63	912	3.60	135	70	65.4
19.2	219	0.12	2.69	193	0.8	10			8073	0.45	12.10	651	3.60	135		
27	156	0.12	3.78	137	0.8	10			5741	0.45	17.01	463	3.60	135		
50.5	83	0.12	6.06	73	0.8	10	60	73.5	3069	0.45	27.27	248	3.60	135	60	73.5
71	59	0.12	8.52	52	0.8	10			2183	0.45	38.34	176	3.60	135		
100	42	0.12	12.00	37	0.8	10			1550	0.45	50.00	125	3.60	135		
139	30	0.12	16.68	27	0.8	10			1115	0.45	50.00	90	3.60	135		
187.5	22	0.12	18.75	20	0.8	10	50	84.6	827	0.45	50.00	67	3.60	135	50	84.6
263	16	0.12	26.30	14	0.8	10			589	0.45	50.00	48	3.60	135		
370	11	0.12	37.00	10	0.8	10			419	0.45	50.00	34	3.60	135		
520	8	0.12	50.00	7	0.8	10			298	0.45	50.00	24	3.60	135		
731	6	0.12	50.00	5	0.8	10			212	0.45	50.00	17	3.60	135		

ABL3650

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

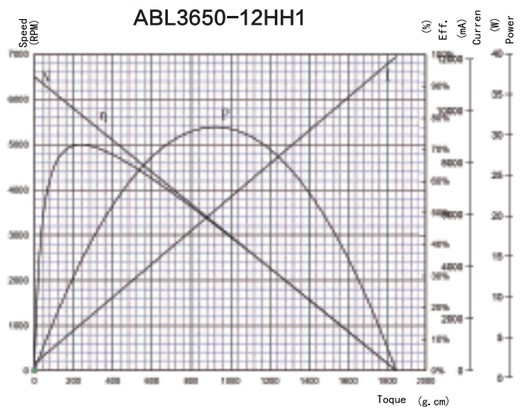
电机尺寸/Dimensional Drawing(mm)

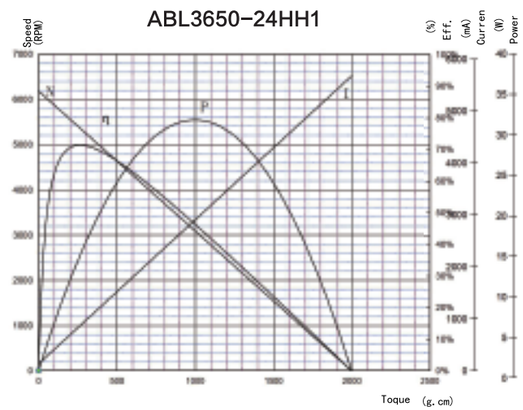


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL3650-12HH1	12	6500	0.25	400.0	4800	2.1	25	1845	10.00	173	554	3.5
ABL3650-24HH1	24	6200	0.13	500.0	4350	1.3	31	1997	5.60	366	264	3.1

电机性能曲线/Motor Performance Curve



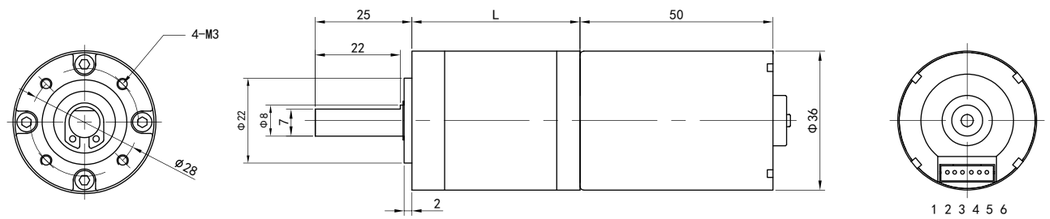


ABL3650-36GP

减速箱参数/Gear Technical

模数	m	0.6													
齿数	Z	12/18													
压力角	a	20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	3.7	5.2	13.7	19	27	51	71	100	139	188	263	370	520	731
长度	L1	27.3		35.4			43.5				54.6				
额定力矩	kgf.cm	5		15			30				50				
瞬间允许力矩	kgf.cm	15		40			80				150				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	8.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABL3650-12HH1								ABL3650-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	6500	0.25	400	4800	2.10	25	1800	10.00	6200	0.13	500	4300	1.30	31	2000	6.00

减速电机技术参数/Motor Technical Data

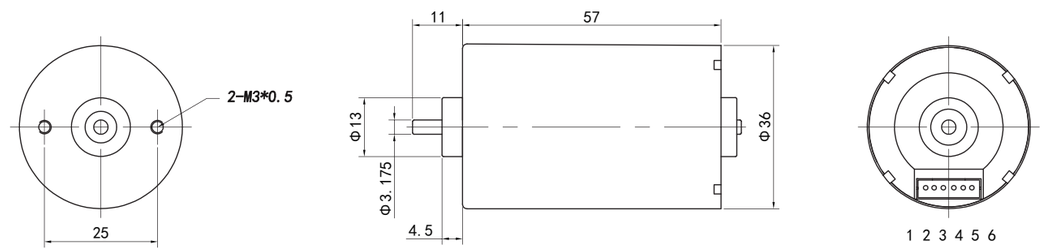
型号 Model	ABL3650-36GP-12HH1								ABL3650-36GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	1757	0.27	1.18	1297	2.1	25	80	77.3	1676	0.15	1.48	1162	1.30	31	80	77.3
5.2	1250	0.27	1.66	923	2.1	25			1192	0.15	2.08	827	1.30	31		
13.7	474	0.27	3.84	350	2.1	25	70	85.4	453	0.15	4.80	314	1.30	31	70	85.4
19.2	339	0.27	5.38	250	2.1	25			323	0.15	6.72	224	1.30	31		
27	241	0.27	7.56	178	2.1	25			230	0.15	9.45	159	1.30	31		
50.5	129	0.27	12.12	95	2.1	25	60	93.5	123	0.15	15.15	85	1.30	31	60	93.5
71	92	0.27	17.04	68	2.1	25			87	0.15	21.30	61	1.30	31		
100	65	0.27	24.00	48	2.1	25			62	0.15	30.00	43	1.30	31		
139	47	0.27	33.36	35	2.1	25			45	0.15	41.70	31	1.30	31		
187.5	35	0.27	37.50	26	2.1	25	50	104.6	33	0.15	46.88	23	1.30	31	50	104.6
263	25	0.27	50.00	18	2.1	25			24	0.15	50.00	16	1.30	31		
370	18	0.27	50.00	13	2.1	25			17	0.15	50.00	12	1.30	31		
520	13	0.27	50.00	9	2.1	25			12	0.15	50.00	8	1.30	31		
731	9	0.27	50.00	7	2.1	25			8	0.15	50.00	6	1.30	31		

ABL3657

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

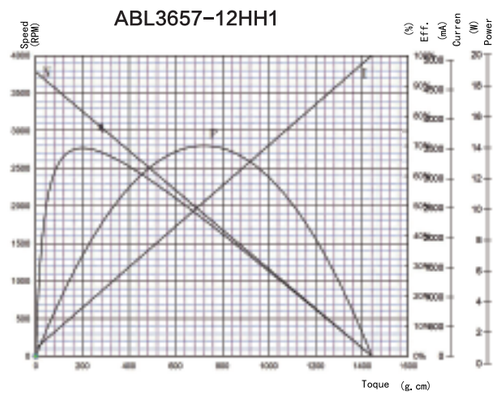
电机尺寸/Dimensional Drawing(mm)

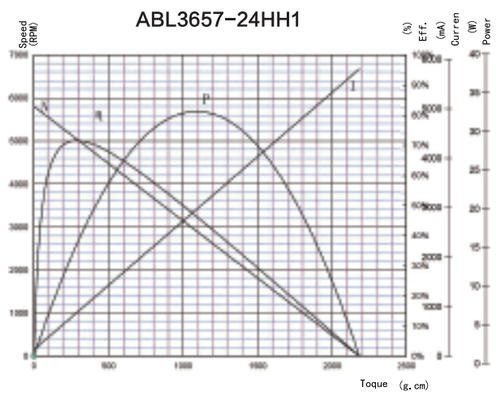


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL3657-12HH1	12	3800	0.13	400.0	2500	1.2	14	1450	5.00	296	323	2.6
ABL3657-24HH1	24	5800	0.13	500.0	4200	1.2	29	2100	6.00	390	247	2.7

电机性能曲线/Motor Performance Curve



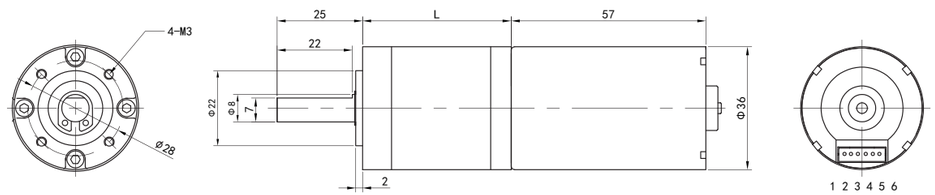


ABL3657-36GP

减速箱参数/Gear Technical

模数	m	0.6													
齿数	Z	12/18													
压力角	a	20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	3.7	5.2	13.7	19	27	51	71	100	139	188	263	370	520	731
长度	L1	27.3		35.4			43.5				54.6				
额定力矩	kgf.cm	5		15			30				50				
瞬间允许力矩	kgf.cm	15		40			80				150				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	8.0													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABL3657-12HH1								ABL3657-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	3800	0.13	400	2500	1.20	14	1500	5.00	5800	0.13	500	4200	1.20	29	2100	6.00

减速电机技术参数/Motor Technical Data

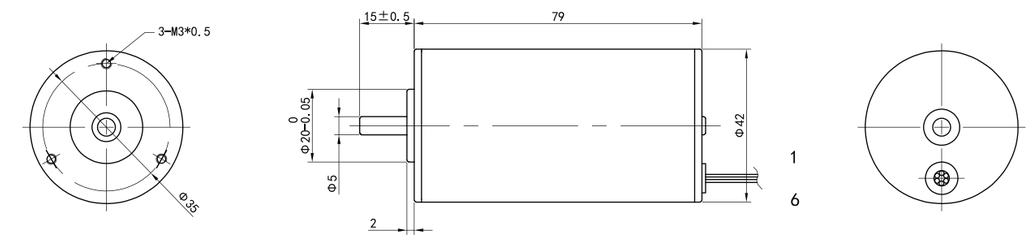
型号 Model	ABL3657-36GP-12HH1								ABL3657-36GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	1027	0.15	1.18	676	1.2	14	80	84.3	1568	0.15	1.48	1135	1.2	29	80	84.3
5.2	731	0.15	1.66	481	1.2	14			1115	0.15	2.08	808	1.2	29		
13.7	277	0.15	3.84	182	1.2	14	70	92.4	423	0.15	4.80	307	1.2	29	70	92.4
19.2	198	0.15	5.38	130	1.2	14			302	0.15	6.72	219	1.2	29		
27	141	0.15	7.56	93	1.2	14			215	0.15	9.45	156	1.2	29		
50.5	75	0.15	12.12	50	1.2	14	60	100.5	115	0.15	15.15	83	1.2	29	60	100.5
71	54	0.15	17.04	35	1.2	14			82	0.15	21.30	59	1.2	29		
100	38	0.15	24.00	25	1.2	14			58	0.15	30.00	42	1.2	29		
139	27	0.15	33.36	18	1.2	14			42	0.15	41.70	30	1.2	29		
187.5	20	0.15	37.50	13	1.2	14	50	111.6	31	0.15	46.88	22	1.2	29	50	111.6
263	14	0.15	50.00	10	1.2	14			22	0.15	50.00	16	1.2	29		
370	10	0.15	50.00	7	1.2	14			16	0.15	50.00	11	1.2	29		
520	7	0.15	50.00	5	1.2	14			11	0.15	50.00	8	1.2	29		
731	5	0.15	50.00	3	1.2	14			8	0.15	50.00	6	1.2	29		

ABJ4280

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

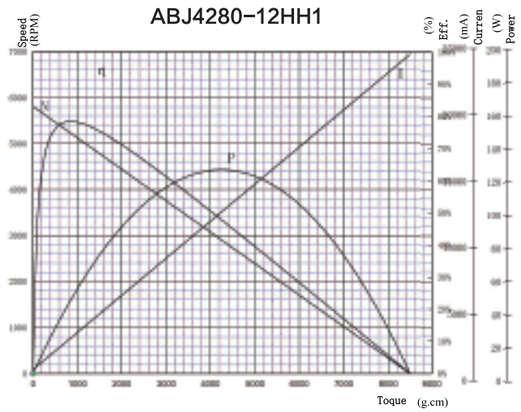
电机尺寸/Dimensional Drawing(mm)

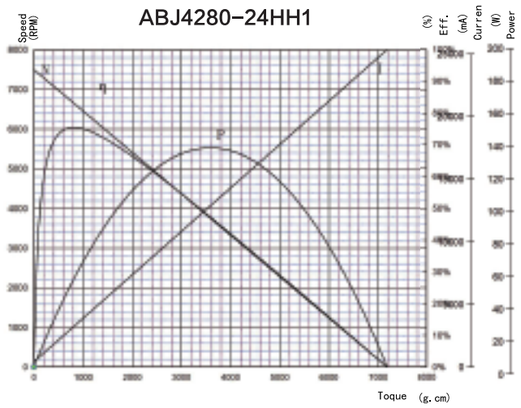


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABJ4280-12HH1	12	5800	0.27	1000.0	5000	4.3	50.0	8500	21.00	394	245	0.7
ABJ4280-24HH1	24	7500	0.37	1200.0	5900	3.0	75.0	7000	24.00	300	318	1.0

电机性能曲线/Motor Performance Curve



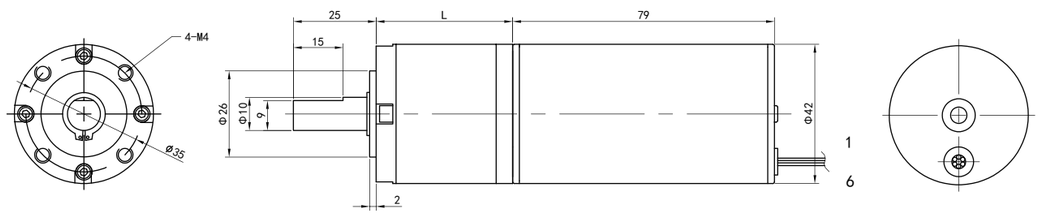


ABJ4280-42GP

减速箱参数/Gear Technical

模数	m	0.6														
齿数	Z	12/18														
压力角	a	20°														
级数	Series	1		2			3				4					
减速比	Reduction ratio	3.7	5.2	13.7	18.5	25	51	68.5	92.5	125	188	256	345	462	625
长度	L1	33.1		41.2			49.3				60.4					
额定力矩	kgf.cm	5		25			70				70					
瞬间允许力矩	kgf.cm	15		75			210				210					
效率	Efficiency	80		70			60				50					
输出轴直径	Output shaft	6/8/10														

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABJ4280-12HH1								ABJ4280-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	5800	0.27	1000	5000	4.30	52	8500	21.00	7500	0.37	1200	5900	3.00	72	7000	20.00

减速电机技术参数/Motor Technical Data

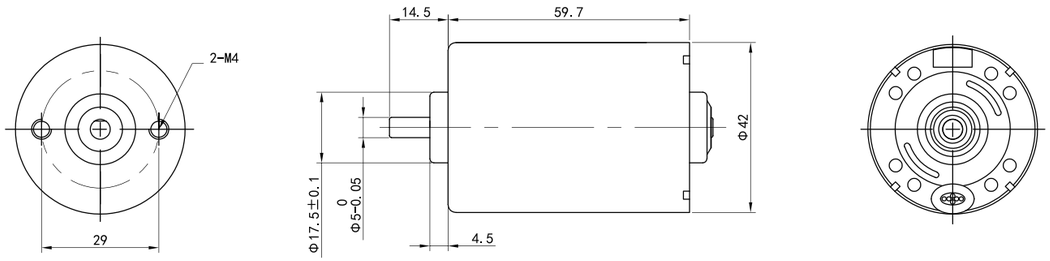
型号 Model	ABJ4280-42GP-12HH1								ABJ4280-42GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	1568	0.3	2.96	1351	4.3	52	80	112.1	2027	0.4	3.55	1595	3.0	72	80	112.1
5	1160	0.3	4.00	1000	4.3	52			1500	0.4	4.80	1180	3.0	72		
13.7	423	0.3	9.59	365	4.3	52	70	120.2	547	0.4	11.51	431	3.0	72	70	120.2
18.5	314	0.3	12.95	270	4.3	52			405	0.4	15.54	319	3.0	72		
25	232	0.3	17.50	200	4.3	52			300	0.4	21.00	236	3.0	72		
51	114	0.3	30.60	98	4.3	52	60	128.3	147	0.4	36.72	116	3.0	72	60	128.3
68.5	85	0.3	41.10	73	4.3	52			109	0.4	49.32	86	3.0	72		
92.5	63	0.3	55.50	54	4.3	52			81	0.4	66.60	64	3.0	72		
125	46	0.3	70.00	40	4.3	52			60	0.4	70.00	47	3.0	72		
188	31	0.3	70.00	27	4.3	52	50	139.4	40	0.4	70.00	31	3.0	72	50	139.4
256	23	0.3	70.00	20	4.3	52			29	0.4	70.00	23	3.0	72		
345	17	0.3	70.00	14	4.3	52			22	0.4	70.00	17	3.0	72		
462	13	0.3	70.00	11	4.3	52			16	0.4	70.00	13	3.0	72		
625	9	0.3	70.00	8	4.3	52			12	0.4	70.00	9	3.0	72		

ABL4260

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

电机尺寸/Dimensional Drawing(mm)

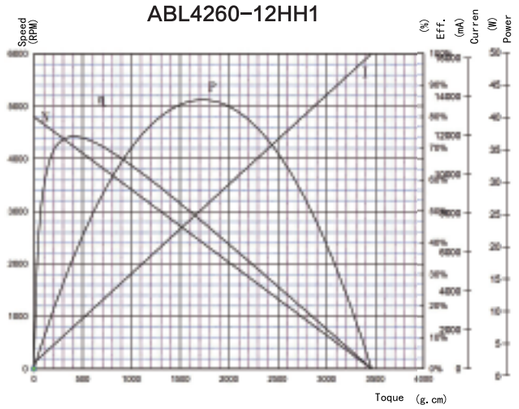


电机技术参数/Motor Technical Data

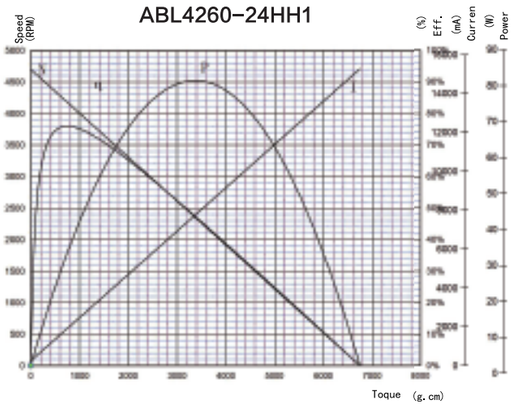
型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABL4260-12HH1	12	4800	0.28	650.0	3400	2.5	30.0	3800	15.00	235	407	1.4
ABL4260-24HH1	24	4700	0.21	1000.0	3500	1.8	43.0	6700	14.00	485	199	0.7

电机性能曲线/Motor Performance Curve

ABL4260-12HH1



ABL4260-24HH1

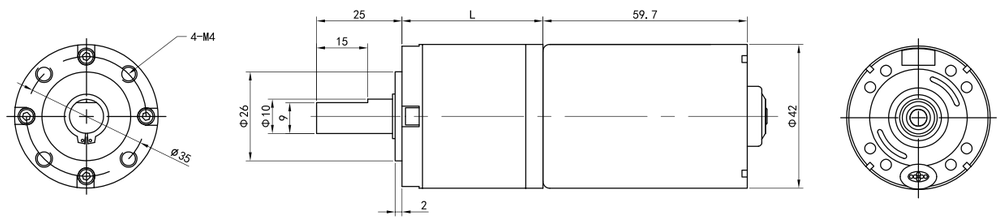


ABL4260-42GP

减速箱参数/Gear Technical

模数	m	0.6													
齿数	Z	12/18													
压力角	a	20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	3.7	5.0	13.7	18.5	25	51	68.5	92.5	125	188	256	345	462	625
长度	L1	33.1		41.2			49.3				60.4				
额定力矩	kgf.cm	5		25			70				70				
瞬间允许力矩	kgf.cm	15		75			210				210				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	6/8/10													

电机尺寸/Dimensional Drawing(mm)



电机技术参数/Motor Technical Data

型号 Model	ABL4260-12HH1								ABL4260-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	4800	0.28	650	3400	2.50	30	3800	15.00	4700	0.21	1000	3500	1.80	43	6700	14.00

减速电机技术参数/Motor Technical Data

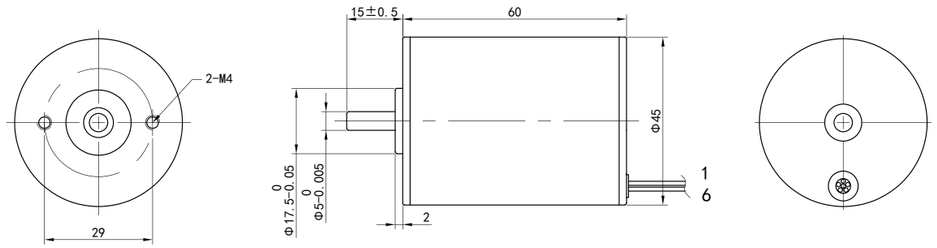
型号 Model	ABL4260-42GP-12HH1								ABL4260-42GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	1757	0.3	1.92	919	2.5	30	80	93.1	1270	0.23	2.96	946	1.80	43	80	93.1
5	1300	0.3	2.60	680	2.5	30			940	0.23	4.00	700	1.80	43		
13.7	474	0.3	6.23	248	2.5	30	70	101.2	343	0.23	9.59	255	1.80	43	70	101.2
18.5	351	0.3	8.42	184	2.5	30			254	0.23	12.95	189	1.80	43		
25	260	0.3	11.38	136	2.5	30			188	0.23	17.50	140	1.80	43		
51	127	0.3	19.89	67	2.5	30	60	109.3	92	0.23	30.60	69	1.80	43	60	109.3
68.5	95	0.3	26.72	50	2.5	30			69	0.23	41.10	51	1.80	43		
92.5	70	0.3	36.08	37	2.5	30			51	0.23	55.50	38	1.80	43		
125	52	0.3	48.75	27	2.5	30			38	0.23	70.00	28	1.80	43		
188	35	0.3	61.10	18	2.5	30	50	120.4	25	0.23	70.00	19	1.80	43	50	120.4
256	25	0.3	70.00	13	2.5	30			18	0.23	70.00	14	1.80	43		
345	19	0.3	70.00	10	2.5	30			14	0.23	70.00	10	1.80	43		
462	14	0.3	70.00	7	2.5	30			10	0.23	70.00	8	1.80	43		
625	10	0.3	70.00	5	2.5	30			8	0.23	70.00	6	1.80	43		

ABJ4560

功能说明/Function Description

正反转功能	Forward and reverse functions	CW/CCW
信号输出功能	Signal output function	FG Signal
脉宽调速功能	Pulse width speed regulation funtion	PWM Control
保护	Protection	堵转保护 Locked Rotor Protection 过流保护 Overcurrent protection
电机寿命	Motor life	≈5000H
组合	Combination	可配减速箱，编码器，刹车器 Compatible gear,encoder,Brakes

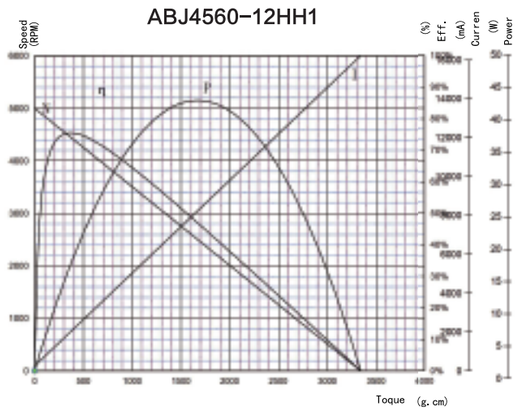
电机尺寸/Dimensional Drawing(mm)

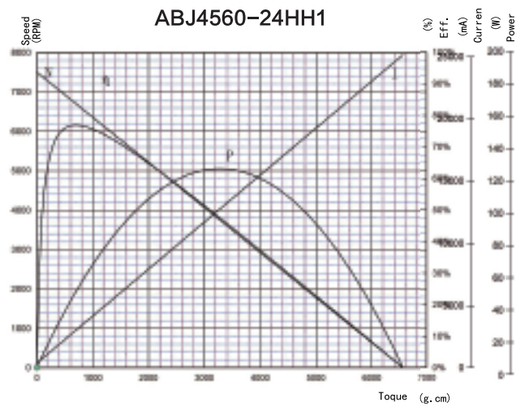


电机技术参数/Motor Technical Data

型号	额定电压	空载 No-load		额定 Rated				堵转Stall		特征参数 Parameters		
	Rated Voltage	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转矩常数 Torque Constant	转速常数 Speed Constant	速度/转矩常数 Speed Constant
Model	V	RPM	A	gf.cm	RPM	A	W	gf.cm	A	gf.cm/A	RPM/V	RPM/gf.cm
ABJ4560-12HH1	12	5000	0.23	900.0	3700	4.2	50.0	3500	13.00	220	420	1.9
ABJ4560-24HH1	24	7500	0.31	1000.0	5500	3.0	72.0	5000	17.00	300	318	1.5

电机性能曲线/Motor Performance Curve

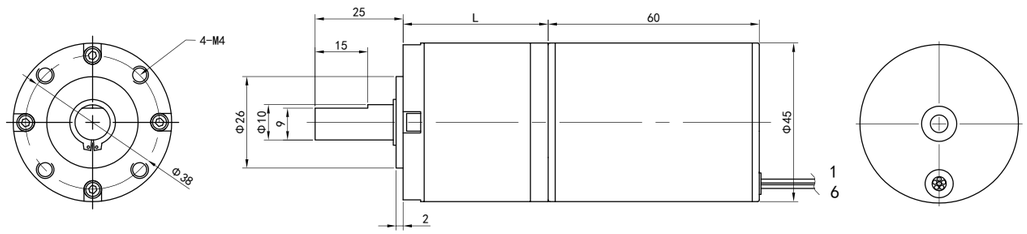




减速箱参数/Gear Technical

模数	m	0.6													
齿数	Z	12/18													
压力角	a	20°													
级数	Series	1		2			3				4				
减速比	Reduction ratio	3.7	5.0	13.7	18.5	25	51	68.5	92.5	125	188	256	345	462	625
长度	L1	33.1		41.2			49.3				60.4				
额定力矩	kgf.cm	5		25			70				70				
瞬间允许力矩	kgf.cm	15		75			210				210				
效率	Efficiency	80		70			60				50				
输出轴直径	Output shaft	6/8/10													

电机尺寸/Dimensional Drawing(mm)



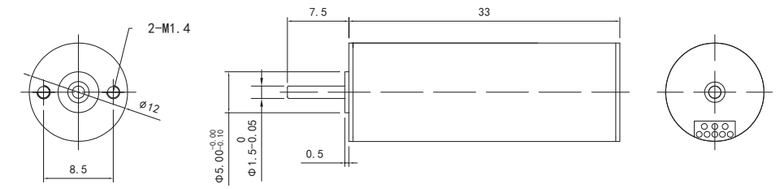
电机技术参数/Motor Technical Data

型号 Model	ABJ4560-12HH1								ABJ4560-24HH1							
额定电压 voltage	12V								24V							
	空载 No-load		额定 Rated				堵转Stall		空载 No-load		额定 Rated				堵转Stall	
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power	力矩 Torque	电流 Current
	RPM	A	gf.cm	RPM	A	W	gf.cm	A	RPM	A	gf.cm	RPM	A	W	gf.cm	A
	5000	0.23	900	3700	4.20	50	3500	13.00	7500	0.31	1000	5500	3.00	72	5000	17.00

减速电机技术参数/Motor Technical Data

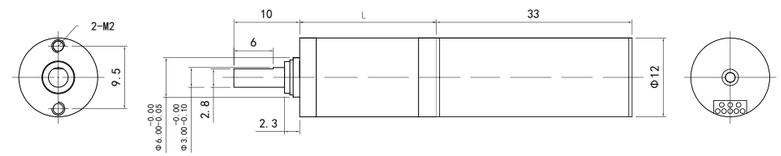
型号 Model	ABJ4560-45GP-12HH1								ABJ4560-45GP-24HH1							
额定电压 voltage	12V								24V							
减速比 Reduction ratio	空载 No-load		额定 Rated				效率 Efficiency	长度 L	空载 No-load		额定 Rated				效率 Efficiency	长度 L
	转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power			转速 Speed	电流 Current	力矩 Torque	转速 Speed	电流 Current	功率 Power		
	RPM	A	kgf.cm	RPM	A	W	%	mm	RPM	A	kgf.cm	RPM	A	W	%	mm
3.7	1351	0.25	2.66	1000	4.2	50	80	103.1	2027	0.35	2.96	1486	3.0	72	80	103.1
5	1000	0.25	3.60	740	4.2	50			1500	0.35	4.00	1100	3.0	72		
13.7	365	0.25	8.63	270	4.2	50	70	101.2	547	0.35	9.59	401	3.0	72	70	101.2
18.5	270	0.25	11.66	200	4.2	50			405	0.35	12.95	297	3.0	72		
25	200	0.25	15.75	148	4.2	50			300	0.35	17.50	220	3.0	72		
51	98	0.25	27.54	73	4.2	50	60	109.3	147	0.35	30.60	108	3.0	72	60	109.3
68.5	73	0.25	36.99	54	4.2	50			109	0.35	41.10	80	3.0	72		
92.5	54	0.25	49.95	40	4.2	50			81	0.35	55.50	59	3.0	72		
125	40	0.25	67.50	30	4.2	50			60	0.35	70.00	44	3.0	72		
188	27	0.25	70.00	20	4.2	50	50	120.4	40	0.35	70.00	29	3.0	72	50	120.4
256	20	0.25	70.00	14	4.2	50			29	0.35	70.00	21	3.0	72		
345	14	0.25	70.00	11	4.2	50			22	0.35	70.00	16	3.0	72		
462	11	0.25	70.00	8	4.2	50			16	0.35	70.00	12	3.0	72		
625	8	0.25	70.00	6	4.2	50			12	0.35	70.00	9	3.0	72		

ABK1233



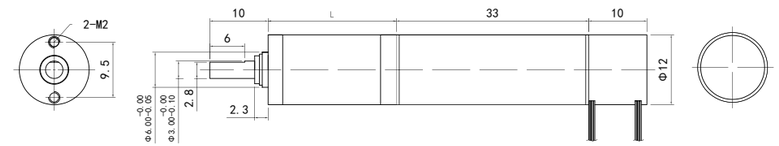
电机尺寸/Dimensional Drawing(mm)

ABK1233-12GP



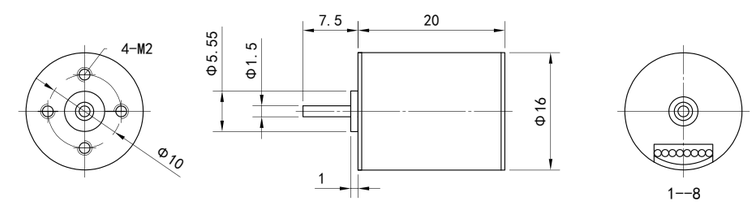
电机尺寸/Dimensional Drawing(mm)

ABK1233-12GP-EB



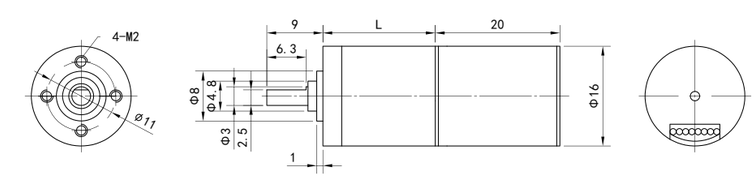
电机尺寸/Dimensional Drawing(mm)

ABK1620

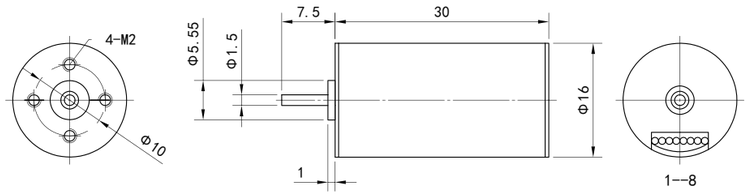


电机尺寸/Dimensional Drawing(mm)

ABK1620-16GP

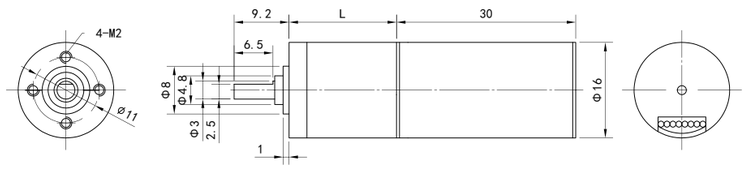


电机尺寸/Dimensional Drawing(mm)



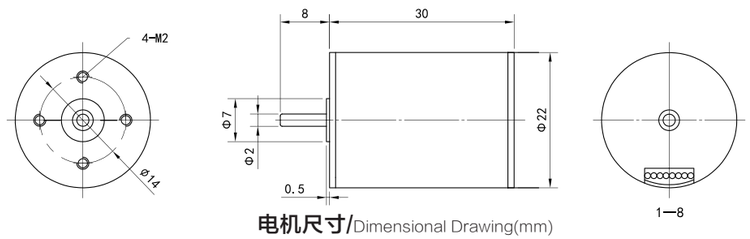
ABK1630

电机尺寸/Dimensional Drawing(mm)



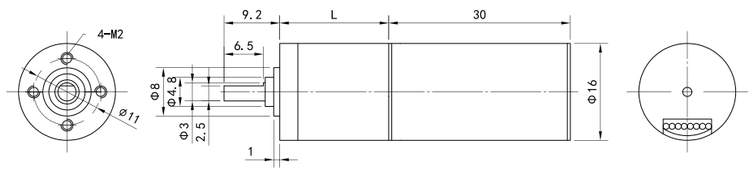
ABK1630-16GP

电机尺寸/Dimensional Drawing(mm)



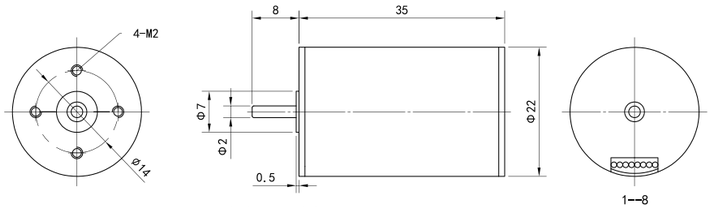
ABK2230

电机尺寸/Dimensional Drawing(mm)



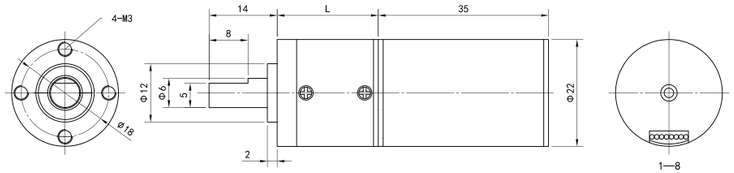
ABK2230-22GP

电机尺寸/Dimensional Drawing(mm)



ABK2235

电机尺寸/Dimensional Drawing(mm)



ABK2235-22GP

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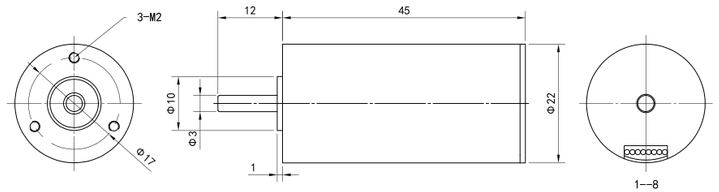
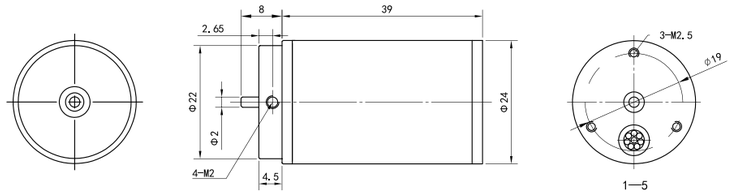


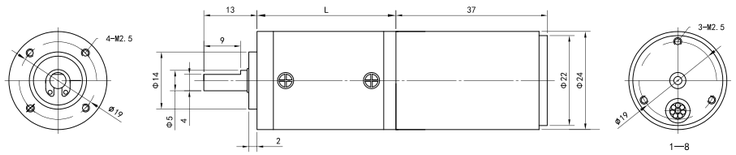
ABK2245

电机尺寸/Dimensional Drawing(mm)



ABJ2439

电机尺寸/Dimensional Drawing(mm)



ABJ2439-24GP

电机尺寸/Dimensional Drawing(mm)