

Fengquan

奉化市丰泉微电机有限公司

Fenghua Fengquan Micro Motor Co., Ltd.



Yuandong

奉化市哈克进出口公司

Fenghua Haks Import and Export Co.,Ltd.

Fengquan Micro Motor

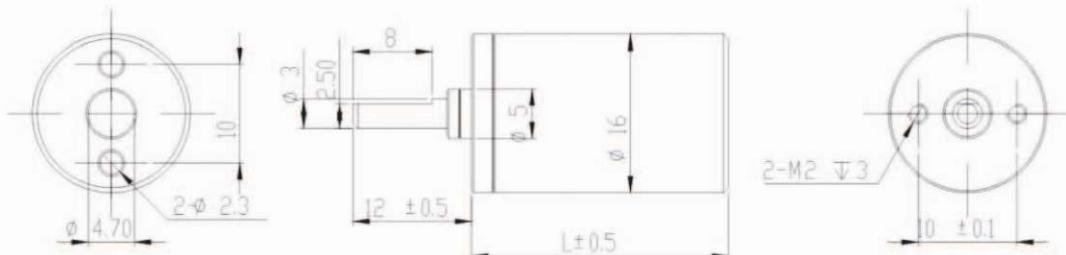
PG16K4



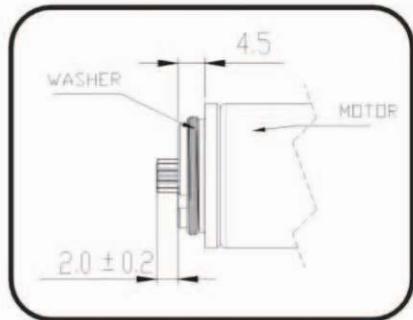
内齿轮材质 Ring gear	优质碳钢 high-quality carbon steel
输出轴承 Bearing at output	含油轴承 Sleeve Bearings
径向间隙 Radial play of shaft	≤ 0.05mm
轴向间隙 Thrust play of shaft	≤ 0.2mm
背隙 (无负载) Backlash, at no load	≤ 2
输出轴轴径 Outout shaft	Φ 3

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



电机太阳轮 MOTOR SUN GEAR	
模数 m	0.3
齿数 z	15 12
压力角 α	20° 20°
孔径 φ	Φ 1.98
减速比 i	1/4.0 1/4.75
	1/16, 1/19 1/22.5
	1/64, 1/90 1/76, 1/107
	1/256, 1/361, 1/428 1/304, 1/509



标准速比 GEARBOXES SPECIFICATIONS

级数 Series	减速比 Reduction ratio	额定转矩 N.cm Rate tolerance torque	最大瞬间允许转矩N.cm Max momentary tolerance torque	效率% Efficiency	L
1	1/4.0	10	30	85%	17
1	1/4.75	10	30	85%	17
2	1/16.0	20	60	75%	20.5
2	1/19.0	20	60	75%	20.5
2	1/22.5	20	60	75%	20.5
3	1/64	30	90	65%	24.3
3	1/76	30	90	65%	24.3
3	1/90.2	30	90	65%	24.3
3	1/107	30	90	65%	24.3
4	1/256	60 MAX	180 MAX	55%	28
4	1/304	60 MAX	180 MAX	55%	28
4	1/361	60 MAX	180 MAX	55%	28
4	1/428.6	60 MAX	180 MAX	55%	28
4	1/509	60 MAX	180 MAX	55%	28

行星齿轮系材质：粉末冶金/尼龙

Ring Planetary Train : Powder Metallurgy/PA

最大输入转速 : 8000r/min

Input Speed Max: 8000r/min

使用相对湿度: 20% ~ 80%

Operating relative humidity 20% ~ 80%

使用温度范围: -10°C ~ +80°C

Operating temperature range -10° C ~ +80° C

Fengquan Micro Motor

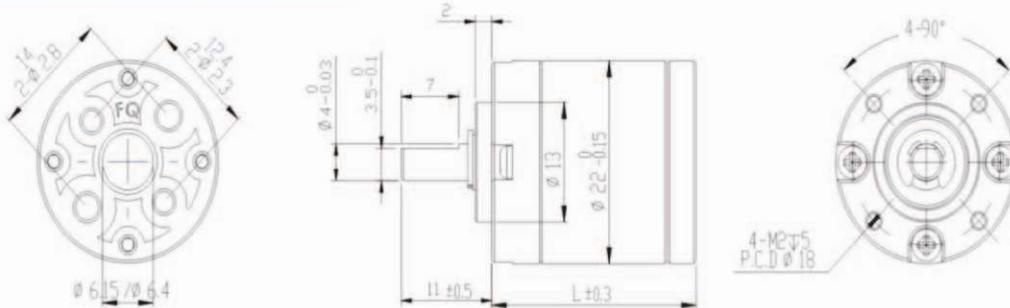
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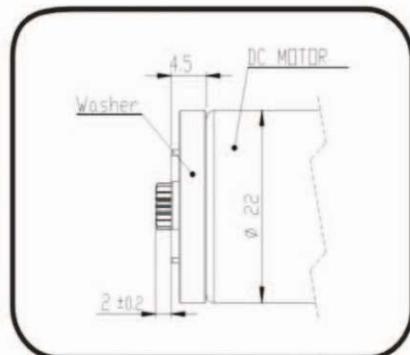
内齿轮材质 Ring gear	优质碳钢 high-quality carbon steel
输出轴承 Bearing at output	滚珠轴承 ball bearing
径向间隙 Radial play of shaft	≤0.05mm
轴向间隙 Thrust play of shaft	≤0.2mm
背隙(无负载) Backlash, at no load	≤2°
输出轴轴径 Outout shaft	Φ3、Φ4、Φ6

参见我们公司已可以按客户图纸、样品等要求定做产品。
Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



电机太阳轮 MOTOR SUN GEAR			
模数 m	0.3		
齿数 z	15	12	18
压力角 α	20°		
孔径 φ	Φ1.98		
减速比:	1/4.0	1/4.75	1/3.5
	1/16. 1/19	1/22.5	1/12.25
	1/64. 1/90	1/76.1/107	1/42.87
	1/256,1/361,1/428	1/304,1/509	1/150



标准速比 GEARBOXES SPECIFICATIONS

级数 Series	减速比 Reduction ratio	额定转矩 N.cm Rate tolerance torque	最大瞬间允许转矩N.cm Max momentary tolerance torque	效率% Efficiency	L
1	1/3.5	5	15	85%	25.2
1	1/4.0	5	15	85%	25.2
1	1/4.75	5	15	85%	25.2
2	1/12.25	10	30	75%	30.5
2	1/16.0	10	30	75%	30.5
2	1/19.0	10	30	75%	30.5
2	1/22.5	10	30	75%	30.5
3	1/42.87	30	90	65%	30.5
3	1/64	30	90	65%	30.5
3	1/76	30	90	65%	30.5
3	1/90.2	30	90	65%	30.5
3	1/107	30	90	65%	30.5
4	1/150	140 MAX	400 MAX	55%	40.7
4	1/256	140 MAX	400 MAX	55%	40.7
4	1/304	140 MAX	400 MAX	55%	40.7
4	1/361	140 MAX	400 MAX	55%	40.7
4	1/428.6	140 MAX	400 MAX	55%	40.7
4	1/509	140 MAX	400 MAX	55%	40.7

行星齿轮系材质：粉末冶金/尼龙

Ring Planetary Train : Powder Metallurgy/PA

最大输入转速：8000r/min

Input Speed Max 8000r/min

使用相对湿度: 20% ~ 80%

Operating relative humidity 20% ~ 80%

使用温度范围: -10°C ~ +80°C

Operating temperature range: -10° C ~ +80° C

Fengquan Micro Motor

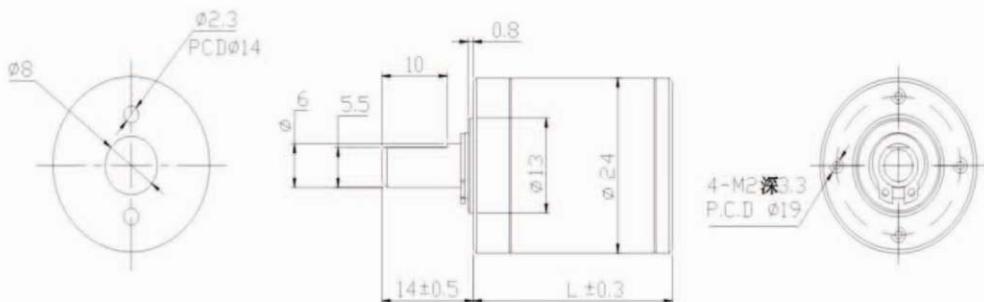
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内齿轮材质 Ring gear	优质碳钢 high-quality carbon steel
输出轴承 Bearing at output	滚珠轴承 ball bearing
径向间隙 Radial play of shaft	$\leq 0.05\text{mm}$
轴向间隙 Thrust play of shaft	$\leq 0.2\text{mm}$
背隙（无负载） Backlash, at no load	≤ 2
输出轴直径 Outout shaft	$\Phi 4, \Phi 5, \Phi 6$

我们等公司已可以按客户的图纸、样品
的要求定做产品。Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



电机太阳轮 MOTOR SUN GEAR			
模数 m	0.4		
齿数 z	15	12	18
压力角 α	20°		
孔径 ϕ	$\Phi 1.98, \Phi 2.28, \Phi 2.98$		
减速比 i	1/4.0	1/4.75	1/3.5
	1/16, 1/19	1/22.5	1/12.25
	1/64, 1/90	1/76, 1/107	1/42.87
	1/256, 1/361, 1/428	1/304, 1/509	1/150

标准速比 GEARBOXES SPECIFICATIONS

级数 Series	减速比 Reduction ratio	额定转矩 N.cm Rate tolerance torque	最大瞬间允许转矩N.cm Max momentary tolerance torque	效率% Efficiency	L
1	1/3.5	20	60	85%	25.2
1	1/4.0	20	60	85%	25.2
1	1/4.75	20	60	85%	25.2
2	1/12.25	40	120	75%	30.5
2	1/16.0	40	120	75%	30.5
2	1/19.0	40	120	75%	30.5
2	1/22.5	40	120	75%	30.5
3	1/42.87	60	180	65%	35.5
3	1/64	60	180	65%	35.5
3	1/76	60	180	65%	35.5
3	1/90.2	60	180	65%	35.5
3	1/107	60	180	65%	35.5
4	1/150	140 MAX	400 MAX	55%	40.7
4	1/256	140 MAX	400 MAX	55%	40.7
4	1/304	140 MAX	400 MAX	55%	40.7
4	1/361	140 MAX	400 MAX	55%	40.7
4	1/428.6	140 MAX	400 MAX	55%	40.7
4	1/509	140 MAX	400 MAX	55%	40.7

行星齿轮系材质：粉末冶金/尼龙

Ring Planetary Train : Powder Metallurgy/PA

最大输入转速 : 8000r/min

Input Speed Max. 8000r/min

使用相对湿度: 20% ~ 80%

Operating relative humidity: 20% ~ 80%

使用温度范围: -10°C ~ +80°C

Operating temperature range: -10°C ~ +80°C

Fengquan Micro Motor

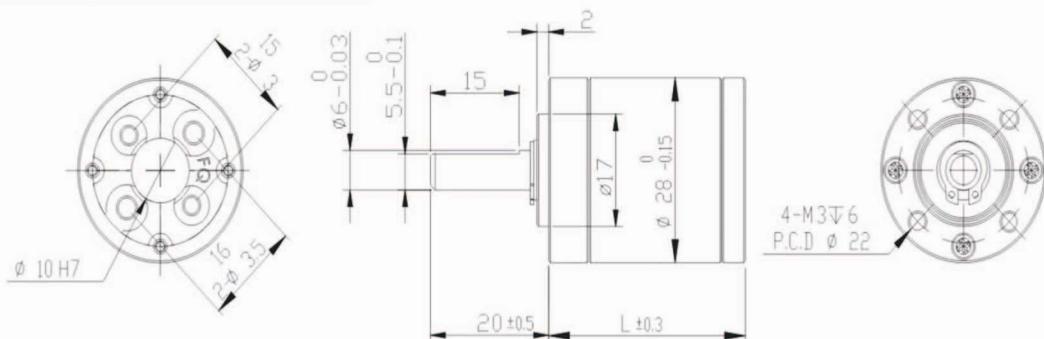
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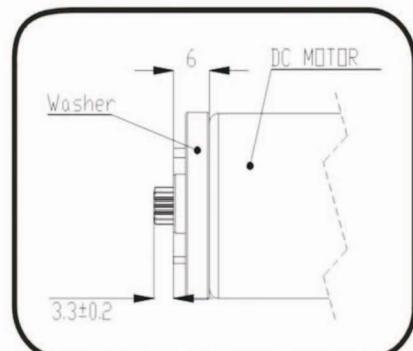
内齿轮材质 Ring gear	优质碳钢 high-quality carbon steel
输出轴承 Bearing at output	滚珠轴承 ball bearing
径向间隙 Radial play of shaft	$\leq 0.05\text{mm}$
轴向间隙 Thrust play of shaft	$\leq 0.2\text{mm}$
背隙 (无负载) Backlash. at no load	$\leq 2^\circ$
输出轴轴径 Outout shaft	$\Phi 6$

我们等公司已可以按客户的图纸、样品
Our company has ordered the products
according to customers' drawings,
sample parameters and so on.

外形尺寸 APPERANCE SIZE



电机太阳轮 MOTOR SUN GEAR		
模数 m	0.4	
齿数 z	15	12
压力角 α	20°	
孔径 φ	Φ 1.98、Φ 2.28、Φ 2.98	
	1/4.0	1/4.75
	1/16, 1/19	1/22.5
	1/64, 1/90	1/76, 1/107
	1/256, 1/361, 1/428	1/304, 1/509
减速比 i	1/3.5	1/12.25
	1/12.25	1/12.25
	1/16.0	1/16.0
	1/19.0	1/19.0
	1/22.5	1/22.5
	1/42.87	1/42.87
	1/64	1/64
	1/76	1/76
	1/90.2	1/90.2
	1/107	1/107
	1/150	1/150
	1/256	1/256
	1/304	1/304
	1/361	1/361
	1/428.6	1/428.6
	1/509	1/509



标准速比 GEARBOXES SPECIFICATIONS

级数 Series	减速比 Reduction ratio	额定转矩 N.cm Rate tolerance torque	最大瞬间允许转矩N.cm Max momentary tolerance torque	效率% Efficiency	L
1	1/3.5	20	60	85%	23
1	1/4.0	20	60	85%	23
1	1/4.75	20	60	85%	23
2	1/12.25	40	120	75%	28
2	1/16.0	40	120	75%	28
2	1/19.0	40	120	75%	28
2	1/22.5	40	120	75%	28
3	1/42.87	60	180	65%	33.3
3	1/64	60	180	65%	33.3
3	1/76	60	180	65%	33.3
3	1/90.2	60	180	65%	33.3
3	1/107	60	180	65%	33.3
4	1/150	140 MAX	400 MAX	55%	38.5
4	1/256	140 MAX	400 MAX	55%	38.5
4	1/304	140 MAX	400 MAX	55%	38.5
4	1/361	140 MAX	400 MAX	55%	38.5
4	1/428.6	140 MAX	400 MAX	55%	38.5
4	1/509	140 MAX	400 MAX	55%	38.5

行星齿轮系材质：粉末冶金/尼龙

Ring Planetary Train : Powder Metallurgy/PA

最大输入转速 : 8000r/min

Input Speed Max: 8000r/min

使用相对湿度: 20% ~ 80%

Operating relative humidity: 20% ~ 80%

使用温度范围: -10°C ~ +80°C

Operating temperature range: -10° C ~ +80° C

Fengquan Micro Motor

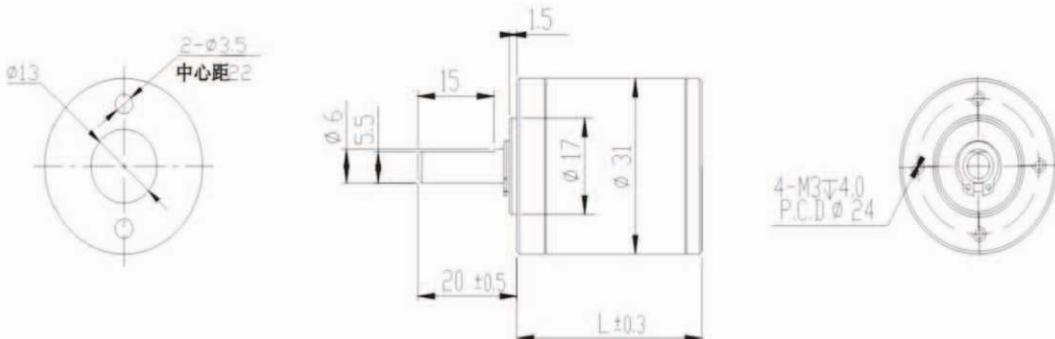
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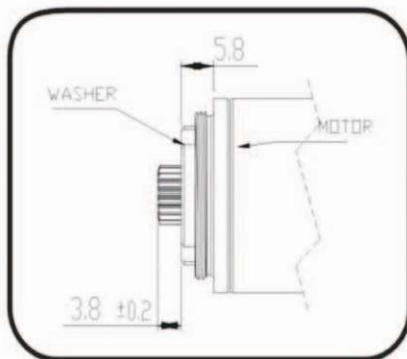
内齿轮材质 Ring gear	优质碳钢 high-quality carbon steel
输出轴承 Bearing at output	滚珠轴承 ball bearing
径向间隙 Radial play of shaft	$\leq 0.03\text{mm}$
轴向间隙 Thrust play of shaft	$\leq 0.2\text{mm}$
背隙(无负载) Backlash, at no load	≤ 1.8
输出轴轴径 Output shaft	$\phi 6$

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Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



电机太阳轮 MOTOR SUN GEAR		
模数 m	0.5	
齿数 z	17	11
压力角 α	20	20
孔径 φ	Φ 1.98、Φ 2.28 Φ 3.15、Φ 3.98	Φ 1.98、Φ 2.28 Φ 3.15
减速比 i	1/3.7 1/13.7, 1/19.2 1/51, 1/99.5 1/188.6, 1/368.7, 1/515.6	1/5.2 1/26.8 1/71, 1/139.1 1/263.7, 1/720.9



标准速比 GEARBOXES SPECIFICATIONS

级数 Series	减速比 Reduction ratio	额定转矩 N.m Rate tolerance torque	最大瞬间允许转矩N.m Max momentary tolerance torque	效率% Efficiency	L
1	1/3.7	0.3	0.9	85%	29
1	1/5.2	0.3	0.9	85%	29
2	1/13.7	0.5	1.5	75%	36.5
2	1/19.2	0.5	1.5	75%	36.5
2	1/26.8	0.5	1.5	75%	36.5
3	1/50	1	3	68%	44.5
3	1/70	1	3	68%	44.5
3	1/100	1	3	68%	44.5
3	1/140	1	3	68%	44.5
4	1/188	2 MAX	6 MAX	55%	52.2
4	1/263	2 MAX	6 MAX	55%	52.2
4	1/368	2 MAX	6 MAX	55%	52.2
4	1/515	2 MAX	6 MAX	55%	52.2
4	1/720	2 MAX	6 MAX	55%	52.2

行星齿轮系材质：粉末冶金/尼龙

Ring Planetary Train : Powder Metallurgy/ PA

最大输入转速 : 8000r/min

Input Speed Max:8000r/min

使用相对湿度: 20%~80%

Operating relative humidity: 20%~80%

使用温度范围: -10°C ~ +80°C

Operating temperature range: -10°C ~ +80°C

Fengquan Micro Motor

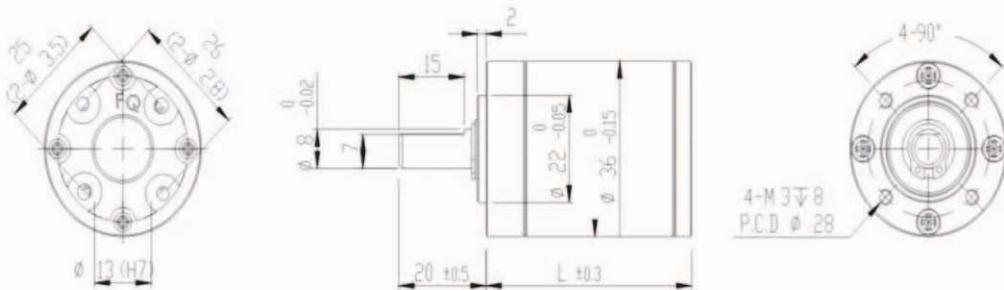
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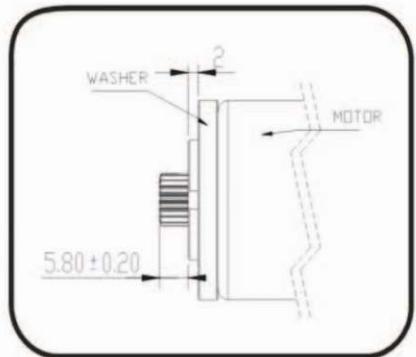
内齿轮材质 Ring gear	优质碳钢 high-quality carbon steel
输出轴承 Bearing at output	滚珠轴承 ball bearing
径向间隙 Radial play of shaft	$\leq 0.05\text{mm}$
轴向间隙 Thrust play of shaft	$\leq 0.2\text{mm}$
背隙 (无负载) Backlash, at no load	$\leq 1.8^\circ$
输出轴轴径 Output shaft	$\phi 6$ 、 $\phi 8$

参见我们
公司已可以按客户
的图纸、样品
等要求定做产品。
Our company has ordered the products
according to customers' drawings,
parameters and so on.

外形尺寸 APPERANCE SIZE



电机太阳轮 MOTOR SUN GEAR		
模数 m	0.5	
齿数 z	17	11
压力角 α	20	20
孔径 ϕ	$\phi 1.98$ 、 $\phi 2.28$ $\phi 3.15$ 、 $\phi 3.98$	$\phi 1.98$ 、 $\phi 2.28$ $\phi 3.15$
减速比 i	1/3.7 1/13.7、1/19.2 1/51、1/99.5 1/188.6、1/368.7、1/515.6	1/5.2 1/26.8 1/71.1/139.1 1/263.7、1/720.9



标准速比 GEARBOXES SPECIFICATIONS

级数 Series	减速比 Reduction ratio	额定转矩 N.m Rate tolerance torque	最大瞬间允许转矩N.m Max momentary tolerance torque	效率% Efficiency	L
1	1/3.7	0.5	1.5	85%	27.5
1	1/5.2	0.5	1.5	85%	27.5
2	1/13.7	1	3	75%	37.5
2	1/19.2	1	3	75%	37.5
2	1/26.8	1	3	75%	37.5
3	1/50	2	6	68%	47
3	1/70	2	6	68%	47
3	1/100	2	6	68%	47
3	1/140	2	6	68%	47
4	1/188	4 MAX	12 MAX	55%	54
4	1/263	4 MAX	12 MAX	55%	54
4	1/368	4 MAX	12 MAX	55%	54
4	1/515	4 MAX	12 MAX	55%	54
4	1/720	4 MAX	12 MAX	55%	54

行星齿轮系材质：粉末冶金/尼龙

Ring Planetary Train : Powder Metallurgy/PA

最大输入转速 : 8000r/min

Input Speed Max:8000r/min

使用相对湿度: 20% ~ 80%

Operating relative humidity: 20% ~ 80%

使用温度范围: -10°C ~ +80°C

Operating temperature range: -10° C ~ +80° C

Fengquan Micro Motor

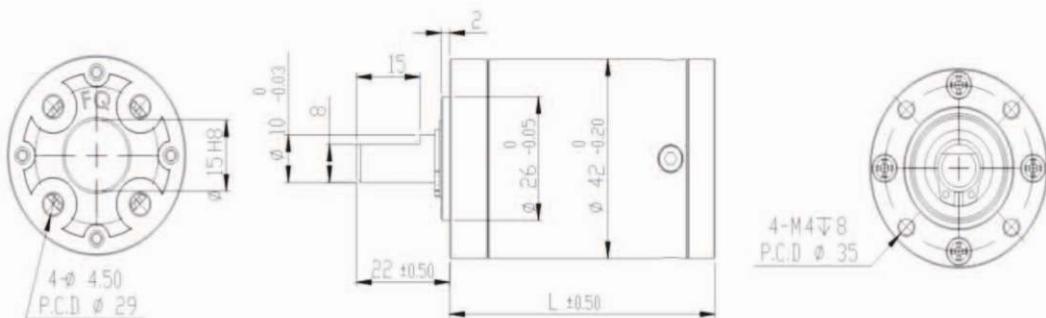
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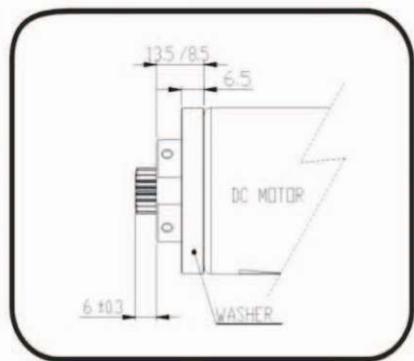
内齿轮材质 Ring gear	优质碳钢 high-quality carbon steel
输出轴承 Bearing at output	滚珠轴承 ball bearing
径向间隙 Radial play of shaft	$\leq 0.05\text{mm}$
轴向间隙 Thrust play of shaft	$\leq 0.3\text{mm}$
背隙 (无负载) Backlash at no load	$\leq 2^\circ$
输出轴轴径 Outout shaft	$\Phi 8, \Phi 10$

参见我们公司已可以按客户的要求定制产品。我们的产品可以根据客户的图纸、样品、样本参数等进行生产。

外形尺寸 APPERANCE SIZE



电机太阳轮 MOTOR SUN GEAR		
模数 m	0.6	
齿数 z	17	11
压力角 α	20°	20°
孔径 φ	φ 3.98	φ 3.98
	φ 4.48、φ 4.98	φ 4.48
减速比:	1/3.7	1/5.2
	1/13.7, 1/19.2	1/26.8
	1/51, 1/99.5	1/71, 1/139.1
	1/188.6, 1/368.7, 1/515.6	1/263.7, 1/720.9



标准速比 GEARBOXES SPECIFICATIONS

级数 Series	减速比 Reduction ratio	额定转矩 N.m Rate tolerance torque	最大瞬间允许转矩N.m Max momentary tolerance torque	效率% Efficiency	L
1	1/3.7	0.5	1.5	85%	34.5
1	1/5.2	0.5	1.5	85%	34.5
2	1/13.7	3	9	75%	46
2	1/19.2	3	9	75%	46
2	1/26.8	3	9	75%	46
3	1/50	6	18	65%	62.5
3	1/70	6	18	65%	62.5
3	1/100	6	18	65%	62.5
3	1/140	6	18	65%	62.5
4	1/188	6 MAX	18 MAX	55%	76.5
4	1/263	6 MAX	18 MAX	55%	76.5
4	1/368	6 MAX	18 MAX	55%	76.5
4	1/515	6 MAX	18 MAX	55%	76.5
4	1/720	6 MAX	18 MAX	55%	76.5

行星齿轮系材质：粉末冶金/尼龙

Ring Planetary Train : Powder Metallurgy/PA

最大输入转速 : 6000r/min

Input Speed Max:8000r/min

使用相对湿度: 20% ~ 80%

Operating relative humidity: 20%~80%

使用温度范围: -10°C ~ +80°C

Operating temperature range: -10° C ~ +80° C

Fengquan Micro Motor

FQ-16ZY(1619\1627)

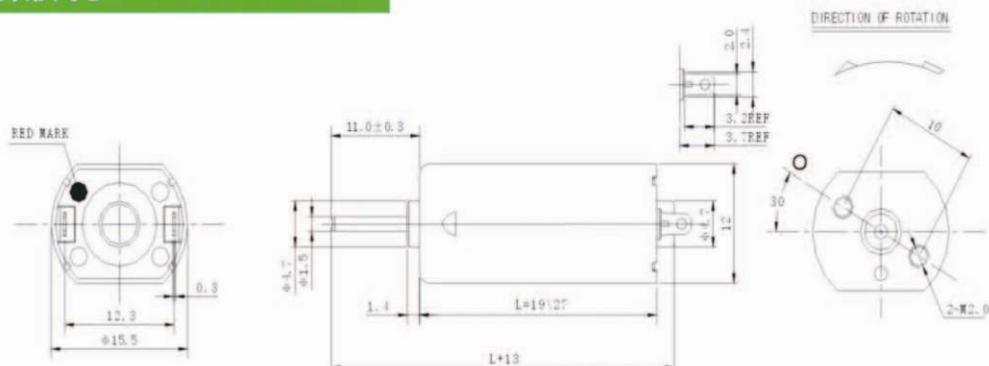


碳刷马达
Carbon-brush motors

输出功率: 约0.1W-2.0W
OUTPUT: APPROX 0.1W-2.0W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

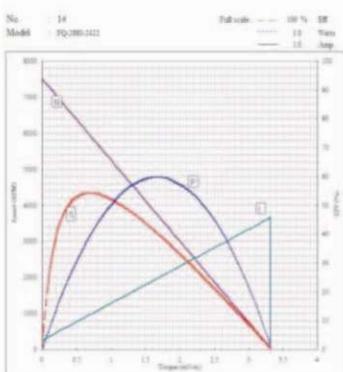
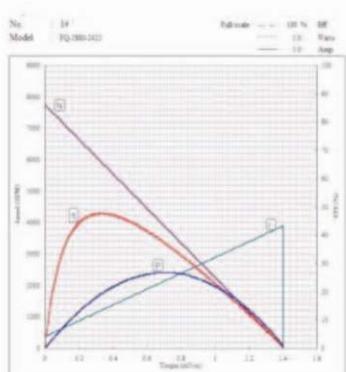
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负载 NO LOAD		最大效率点 AT MAXIMUM EFFICIENCY				启动 STALL			
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE		功率 OUTPUT	转矩 TORQUE		
			r/min	A	r/min	A	mNm	g.cm	W	mNm	g.cm	A
FQ-1619-0347	DC 2.0~4.0V	3VDC	4700	0.04	2600	0.12	0.392	4	0.11	0.58	6	0.2
FQ-1619-0377	DC 2.0~4.0V	3VDC	7750	0.042	5910	0.14	0.33	3.4	0.19	1.41	14.4	0.43
FQ-1627-0342	DC 2.0~4.0V	3VDC	4200	0.029	3220	0.098	0.53	5.4	0.15	2.35	24	0.34
FQ-1627-0675	DC 4.5~7.5V	6VDC	7520	0.032	5940	0.12	0.7	7.1	0.39	3.33	34	0.46

马达性能曲线 Motor Performance Curve

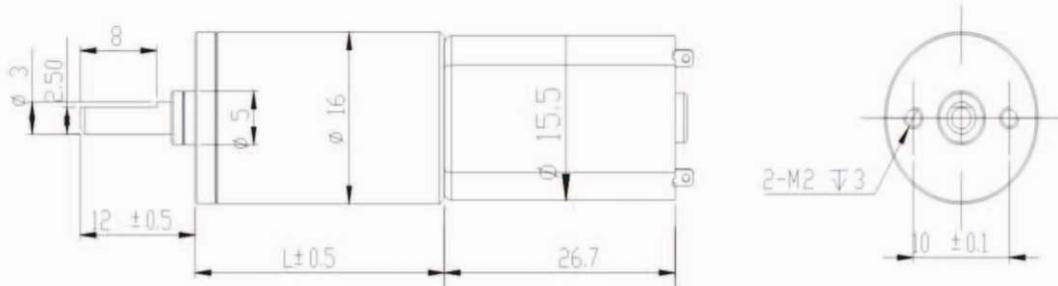


Fengquan Micro Motor

PG16K4-16ZY27



外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		负载LOAD		负载LOAD			最大瞬间允许转矩 Max momentary tolerance torque N·cm	减速比 Reduction Ratio
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE N·cm		
PG16K4-1/4	9~15VDC	12VDC	1330	0.08	1100	0.13	0.3	0.25	1/4.0
PG16K4-1/4.75	9~15VDC	12VDC	1100	0.08	920	0.13	0.4	0.25	1/4.75
PG16K4-1/16	9~15VDC	12VDC	330	0.08	280	0.13	1.2	0.22	1/16.0
PG16K4-1/19	9~15VDC	12VDC	280	0.08	230	0.13	1.4	0.22	1/19.0
PG16K4-1/22.5	9~15VDC	12VDC	230	0.08	200	0.13	1.6	0.22	1/22.5
PG16K4-64	9~15VDC	12VDC	80	0.08	70	0.13	4	0.2	1/64
PG16K4-1/76	9~15VDC	12VDC	70	0.08	60	0.13	5	0.2	1/76
PG16K4-1/90	9~15VDC	12VDC	60	0.08	50	0.13	5.5	0.2	1/90
PG16K4-1/107	9~15VDC	12VDC	50	0.08	40	0.13	6.5	0.2	1/107
PG16K4-1/256	9~15VDC	12VDC	20	0.08	17	0.13	14	0.18	1/256
PG16K4-1/304	9~15VDC	12VDC	17	0.08	14	0.13	16	0.18	1/304
PG16K4-1/360	9~15VDC	12VDC	15	0.08	12	0.13	20	0.18	1/360
PG16K4-1/428	9~15VDC	12VDC	12	0.08	10	0.13	22	0.18	1/428
PG16K4-1/509	9~15VDC	12VDC	10	0.08	8.5	0.13	27	0.18	1/509

有刷直流电机特性 Brush DC Motor Characteristics

型号 MODEL	电压VOLTAGE		空载 NO LOAD		最大效率点AT MAXIMUM EFFICIENCY			启动STARTING		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE mN·m	输出功率 OUTPUT W	转矩 TORQUE mN·m	电流 CURRENT A
			r/min	A	r/min	A	mN·m	W	mN·m	A
FQ16ZY27	9~15VDC	12VDC	5300	0.05	4410	0.13	0.5	0.25	2.2	0.4

Fengquan Micro Motor

FQ-22ZY(2244\2256)



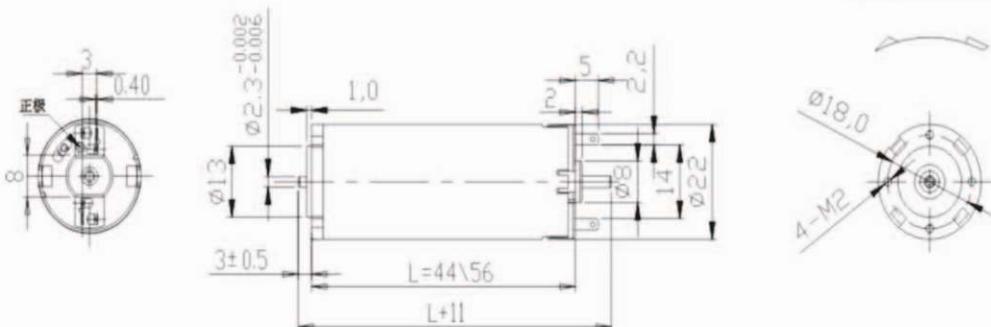
碳刷马达
Carbon-brush motors

输出功率：约1.0W-20W
OUTPUT: APPROX 1.0W-20W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE

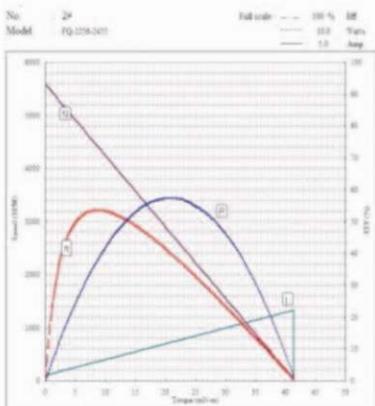
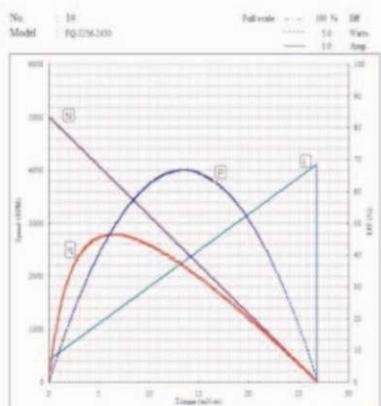
DIRECTION OF ROTATION



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		无负载NO LOAD				最大效率点AT MAXIMUM EFFICIENCY				启动STALL		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE		功率 OUTPUT	转矩 TORQUE		电流 CURRENT	
			r/min	A	r/min	A	mN.m	g.cm	W	mN.m	g.cm	A	
FQ-2244-1254	DC 9-18V	12VDC	5454	0.125	3965	0.33	3.771	38.464	1.55	13.78	140.6	0.88	
FQ-2244-1271	DC 9-18V	12VDC	7178	0.11	5280	0.56	4.96	50.592	2.74	18.77	191.5	1.55	
FQ-2244-1547	DC 12-18V	15VDC	4763	0.1	3270	0.22	2.92	29.784	0.97	9.32	95.06	0.48	
FQ-2256-2450	DC 18-30V	24VDC	5020	0.07	3400	0.21	6.51	66.402	2.44	26.92	274.58	0.69	
FQ-2256-2455	DC 18-30V	24VDC	5578	0.08	4405	0.29	8.79	89.658	3.83	41.55	423.81	1.12	

马达性能曲线 Motor Performance Curve



Fengquan Micro Motor

PG22K4-22ZY44



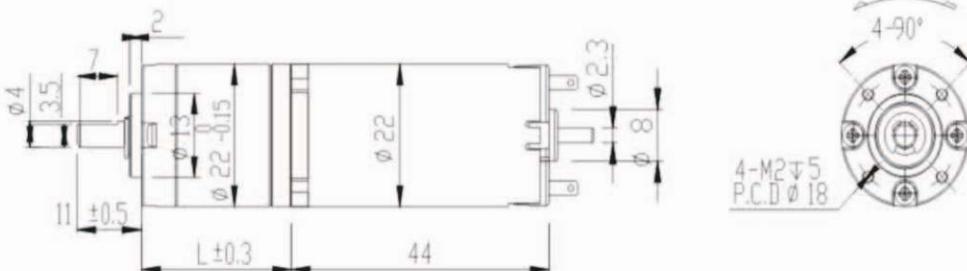
有刷行星减速电机 Brush Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.5, 1/4.0, 1/4.75	18.5
2	1/12.25, 1/16, 1/19, 1/22.5	23.3
3	1/42.87, 1/64, 1/76, 1/90, 1/107	28.4
4	1/150, 1/256, 1/304, 1/361, 1/428, 1/509	33.4

使用相对湿度: 20%~80% 使用温度范围: -10° C~+60° C
Operating relative humidity: 20%~80% Operating temperature range: -10° C~+60° C

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		负载 LOAD		负载 LOAD		最大瞬间允许转矩 Max momentary tolerance torque N. cm	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A				
			N. cm	W	N. cm	W				
PG22K4-1/3.5	18~30VDC	24VDC	1714	0.6	1371	0.15	0.8	1	2.4	1/3.5
PG22K4-1/4	18~30VDC	24VDC	1500	0.6	1200	0.15	1	1	2	1/4.0
PG22K4-1/4.75	18~30VDC	24VDC	1263	0.6	1010	0.15	1.2	1	3.6	1/4.75
PG22K4-1/12.2	18~30VDC	24VDC	492	0.7	394	0.15	3	0.9	9	1/12.2
PG22K4-1/16	18~30VDC	24VDC	375	0.7	300	0.15	4	0.9	12	1/16.0
PG22K4-1/19	18~30VDC	24VDC	316	0.7	253	0.15	4.2	0.9	12.6	1/19.0
PG22K4-1/22.5	18~30VDC	24VDC	287	0.7	214	0.15	5	0.9	15	1/22.5
PG22K4-1/42.8	18~30VDC	24VDC	140	0.08	112	0.15	10	0.8	30	1/42.8
PG22K4-1/64	18~30VDC	24VDC	94	0.08	75	0.15	12	0.8	36	1/64
PG22K4-1/76	18~30VDC	24VDC	79	0.08	63	0.15	14	0.8	42	1/76
PG22K4-1/90	18~30VDC	24VDC	67	0.08	54	0.15	18	0.8	54	1/90
PG22K4-1/107	18~30VDC	24VDC	56	0.08	45	0.15	20	0.8	60	1/107
PG22K4-1/150	18~30VDC	24VDC	40	0.08	32	0.15	30	0.6	90	1/150
PG22K4-1/256	18~30VDC	24VDC	23	0.08	18	0.15	40	0.6	120 MAX	1/256
PG22K4-1/304	18~30VDC	24VDC	20	0.08	16	0.15	50	0.6	120 MAX	1/304
PG22K4-1/360	18~30VDC	24VDC	17	0.08	14	0.15	60	0.6	120 MAX	1/360
PG22K4-1/428	18~30VDC	24VDC	14	0.08	11	0.15	60	0.6	120 MAX	1/428
PG22K4-1/509	18~30VDC	24VDC	12	0.08	10	0.15	60	0.6	120 MAX	1/509

有刷直流电机特性 Brush DC Motor Characteristics

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		最大效率点 AT MAXIMUM EFFICENCY				启动 STARTING	
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE mN.m	输出功率 OUTPUT W	转矩 TORQUE mN.m	电流 CURRENT A
			r/min	A	r/min	A	mN.m	W	mN.m	A
FQ22ZY44	18~30VDC	24VDC	6000	0.06	4800	0.15	3.5	1.8	21.2	1.1

Fengquan Micro Motor

FQ-24ZY(2438|2459)

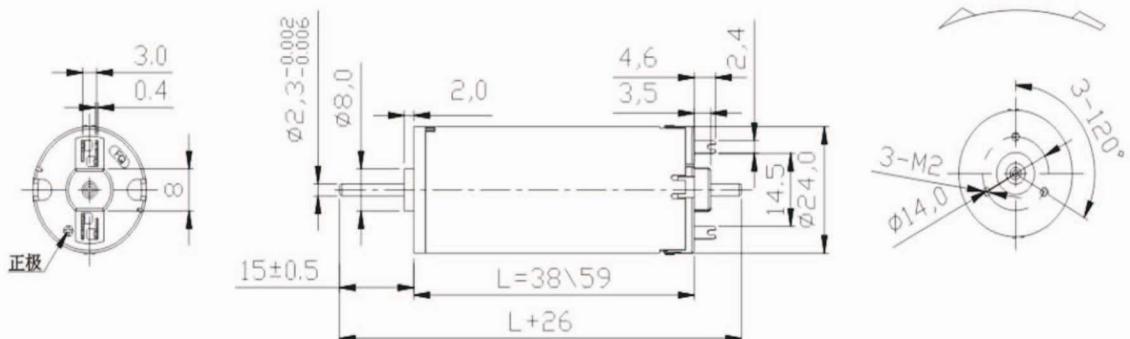


碳刷马达
Carbon-brush motors

输出功率: 约1.0W-20W
OUTPUT: APPROX 1.0W-20W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

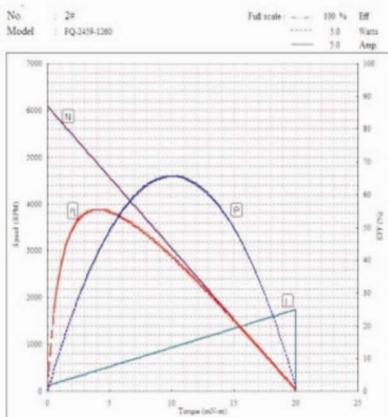
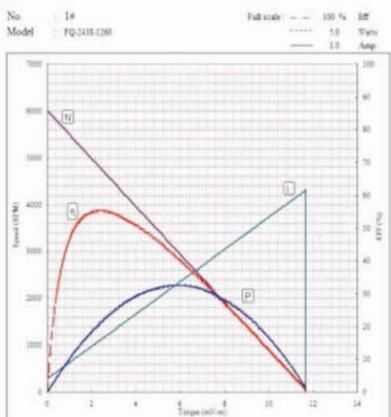
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		无负荷NO LOAD		最大效率点AT MAXIMUM EFFICIENCY				启动STALL			
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE		功率 OUTPUT	转矩 TORQUE		
			r/min	A	r/min	A	mN.m	g.cm	W	mN.m	g.cm	A
FQ-2438-1246	DC 9~18V	12VDC	4600	0.03	3500	0.09	1.72	17.54	0.52	7.5	76.5	0.31
FQ-2438-1260	DC 9~18V	12VDC	6000	0.041	4790	0.16	2.35	23.97	1.05	11.52	117.5	0.61
FQ-2459-1245	DC 9~18V	12VDC	4500	0.06	3450	0.18	3.2	32.64	0.95	14.5	147.9	0.65
FQ-2459-1260	DC 9~18V	12VDC	6000	0.082	4800	0.35	4.25	40.5	2.02	20.4	208.1	1.25

马达性能曲线 Motor Performance Curve



Fengquan Micro Motor

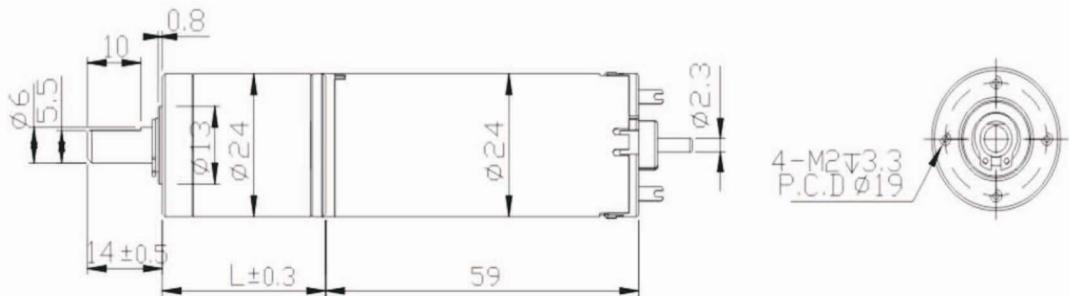
PG24K5-24ZY59



有刷行星减速电机 Brush Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.5, 1/4.0, 1/4.75	25.2
2	1/12.2, 1/16, 1/19, 1/22.5	30.5
3	1/42.8, 1/64, 1/76, 1/90, 1/107	35.5
4	1/150, 1/256, 1/304, 1/361, 1/428, 1/509	40.7
使用相对湿度: 20%~80% 使用温度范围: -10° C~+60° C Operating relative humidity: 20%~80% Operating temperature range: -10° C~+60° C		
我们公司可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.		

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		负载LOAD		负载LOAD		最大瞬间允许转矩 Max momentary tolerance torque N·cm	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A				
			转速 SPEED r/min	转速 SPEED r/min	转矩 TORQUE mN.m	输出功率 OUTPUT W				
PG24K5-1/3.5	18~30VDC	24VDC	1150	0.04	870	0.18	1.5	1.8	4.5	1/3.5
PG24K5-1/4	18~30VDC	24VDC	1000	0.04	760	0.18	2	1.8	6	1/4.0
PG24K5-1/4.75	18~30VDC	24VDC	850	0.04	640	0.18	2.4	1.8	7.2	1/4.75
PG24K5-1/12.5	18~30VDC	24VDC	330	0.05	250	0.18	5	1.6	15	1/16.0
PG24K5-1/16	18~30VDC	24VDC	250	0.05	200	0.18	7	1.6	21	1/16.0
PG24K5-1/19	18~30VDC	24VDC	210	0.05	170	0.18	8.5	1.6	25.5	1/19.0
PG24K5-1/22.5	18~30VDC	24VDC	180	0.05	150	0.18	10	1.6	30	1/22.5
PG24K5-1/42.8	18~30VDC	24VDC	90	0.06	72	0.18	25	1.4	60	1/42.8
PG24K5-1/84	18~30VDC	24VDC	64	0.06	48	0.18	25	1.4	75	1/84
PG24K5-1/76	18~30VDC	24VDC	54	0.06	40	0.18	30	1.4	90	1/76
PG24K5-1/90	18~30VDC	24VDC	44	0.06	35	0.18	35	1.4	105	1/90
PG24K5-1/107	18~30VDC	24VDC	38	0.06	28	0.18	40	1.4	120	1/107
PG24K5-1/150	18~30VDC	24VDC	27	0.06	20	0.18	60	1.2	150MAX	1/150
PG24K5-1/256	18~30VDC	24VDC	16	0.06	12	0.18	80	1.2	150MAX	1/256
PG24K5-1/304	18~30VDC	24VDC	13	0.06	10	0.18	100	1.2	150MAX	1/304
PG24K5-1/360	18~30VDC	24VDC	11	0.06	8.5	0.18	120	1.2	150MAX	1/360
PG24K5-1/428	18~30VDC	24VDC	9.5	0.06	7.2	0.18	140	1.2	150MAX	1/428
PG24K5-1/509	18~30VDC	24VDC	8	0.06	6	0.18	140	1.2	150MAX	1/509

有刷直流电机特性 Brush DC Motor Characteristics

型号 MODEL	电压VOLTAGE		空载 NO LOAD		最大效率点AT MAXIMUM EFFICIENCY				启动STARTING	
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE mN.m	输出功率 OUTPUT W	转矩 TORQUE mN.m	电流 CURRENT A
			r/min	A	r/min	A	mN.m	W	mN.m	A
FQ24ZY59	18~30VDC	24VDC	4100	0.43	3300	0.18	0.6	2.2	30	0.7

Fengquan Micro Motor

FQ-28ZY(2880)

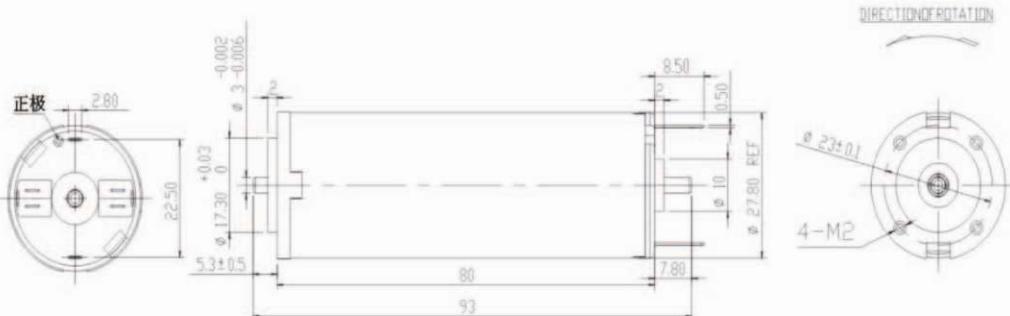


碳刷马达
Carbon-brush motors

输出功率：约1.0W-30W
OUTPUT: APPROX 1.0W-30W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

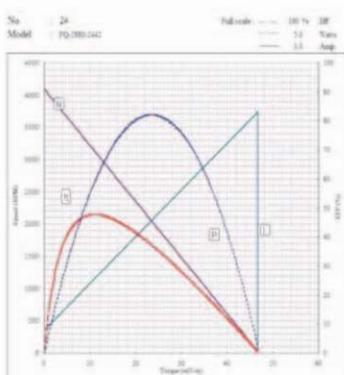
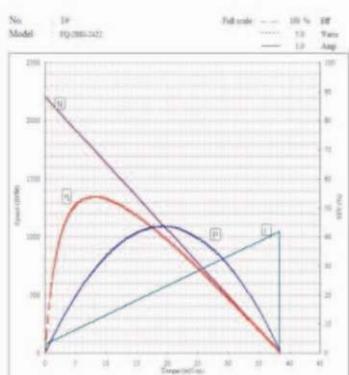
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		无负载NO LOAD			最大效率点AT MAXIMUM EFFICIENCY				启动STALL		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE mN·m	功率 OUTPUT W	转矩 TORQUE mN·m	电流 CURRENT g·cm	转矩 TORQUE g·cm	电流 CURRENT A
FQ-2880-1248	DC 6~18V	12VDC	4800	0.11	3838	0.434	14.49	147.8	2.91	71.73	731.65	1.716
FQ-2880-2422	DC 18~30V	24VDC	2200	0.03	1743	0.112	8.131	82.936	1.45	38.58	393.52	0.42
FQ-2880-2442	DC 18~30V	24VDC	4200	0.08	3127	0.259	9.29	94.758	2.96	39.77	405.765	0.836
FQ-2880-2456	DC 18~30V	24VDC	5600	0.09	4766	0.563	19.8	201.96	9.13	129.7	1323.9	2.46
FQ-2880-2460	DC 18~30V	24VDC	6000	0.11	5043	0.65	22.4	228.48	10.2	140.2	1430	3.16

马达性能曲线 Motor Performance Curve



Fengquan Micro Motor

PG28K5-28ZY80



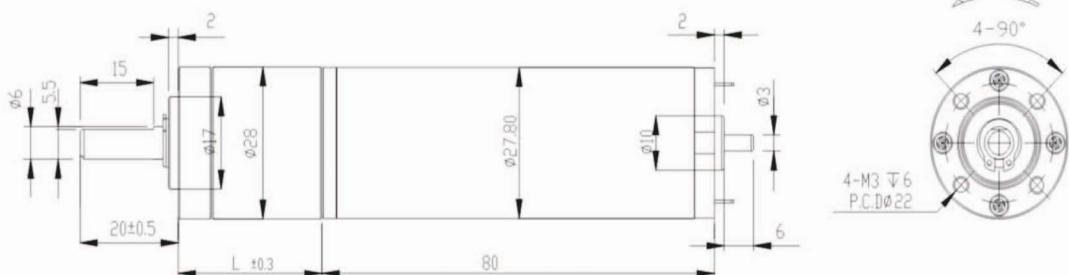
有刷行星减速电机 Brush Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.5, 1/4.0, 1/4.75	23
2	1/12.2, 1/16, 1/19, 1/22.5	28
3	1/42.8, 1/64, 1/76, 1/90, 1/107	33.3
4	1/150, 1/256, 1/304, 1/361, 1/428, 1/509	38.5

使用相对湿度: 20%~80% 使用温度范围: -10° C~+60° C
Operating relative humidity: 20% ~ 80% Operating temperature range: -10° C ~ +60° C

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		负载LOAD		负载LOAD			最大瞬间允许转矩 Max momentary tolerance torque	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE N·cm				
PG28K5-1/3.5	18~30VDC	24VDC	650	0.07	580	0.25	3	1.75	9	1/3.5	
PG28K5-1/4	18~30VDC	24VDC	570	0.07	400	0.25	4	1.75	12	1/4.0	
PG28K5-1/4.75	18~30VDC	24VDC	480	0.07	330	0.25	5	1.75	15	1/4.75	
PG28K5-1/12.2	18~30VDC	24VDC	180	0.08	130	0.25	12	1.5	36	1/12.2	
PG28K5-1/16	18~30VDC	24VDC	150	0.08	100	0.25	15	1.5	45	1/16.0	
PG28K5-1/19	18~30VDC	24VDC	120	0.08	85	0.25	18	1.5	54	1/19.0	
PG28K5-1/22.5	18~30VDC	24VDC	100	0.08	70	0.25	20	1.5	60	1/22.5	
PG28K5-1/42.8	18~30VDC	24VDC	45	0.09	35	0.25	35	1.3	105	1/42.8	
PG28K5-1/64	18~30VDC	24VDC	35	0.09	25	0.25	50	1.3	150 MAX	1/64	
PG28K5-1/76	18~30VDC	24VDC	30	0.09	20	0.25	60	1.3	150 MAX	1/76	
PG28K5-1/90	18~30VDC	24VDC	25	0.09	18	0.25	70	1.3	150 MAX	1/90	
PG28K5-1/107	18~30VDC	24VDC	20	0.09	15	0.25	85	1.3	150 MAX	1/107	
PG28K5-1/150	18~30VDC	24VDC	15	0.1	12	0.25	110	1	150 MAX	1/150	
PG28K5-1/256	18~30VDC	24VDC	9	0.1	6.2	0.25	140	1	150 MAX	1/256	
PG28K5-1/304	18~30VDC	24VDC	7.5	0.1	5.2	0.25	140	1	150 MAX	1/304	
PG28K5-1/360	18~30VDC	24VDC	6.5	0.1	4.5	0.25	140	1	150 MAX	1/360	
PG28K5-1/428	18~30VDC	24VDC	5.5	0.1	3.8	0.25	140	1	150 MAX	1/428	
PG28K5-1/509	18~30VDC	24VDC	4.5	0.1	3	0.25	140	1	150 MAX	1/509	

有刷直流电机特性 Brush DC Motor Characteristics

型号 MODEL	电压VOLTAGE		空载 NO LOAD		最大效率点AT MAXIMUM EFFICIENCY			启动STARTING		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE mN·m	输出功率 OUTPUT W	转矩 TORQUE mN·m	电流 CURRENT A
FQ28ZY80	18~30VDC	24VDC	2250	0.07	1600	0.25	12	2	68	1.2

Fengquan Micro Motor

FQ-31ZY(3145|3151|3176)

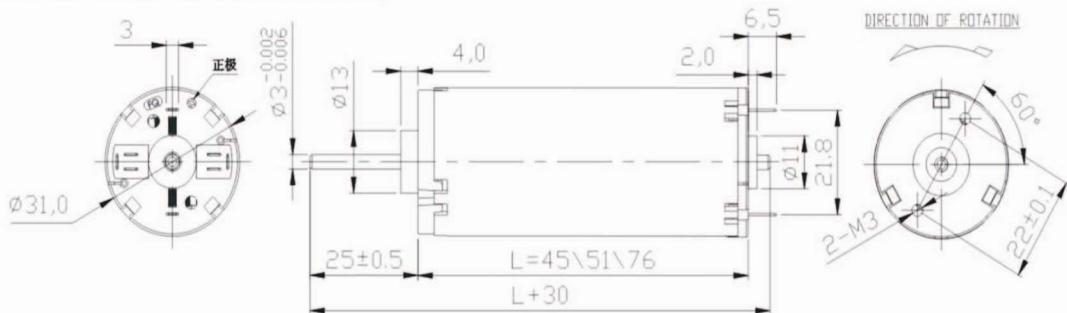


碳刷马达
Carbon-brush motors

输出功率：约1.0W-40W
OUTPUT: APPROX 1.0W-40W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

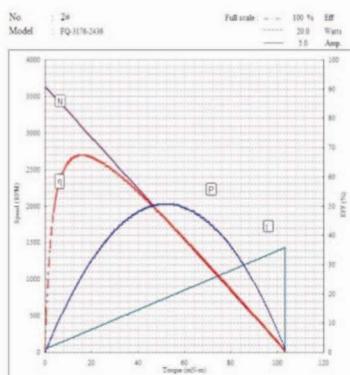
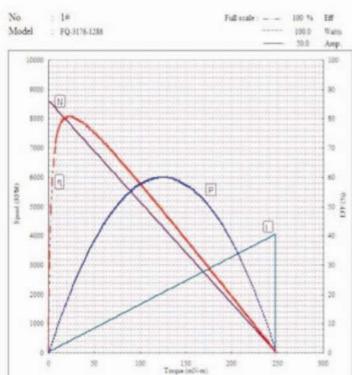
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		无负荷NO LOAD		最大效率点AT MAXIMUM EFFICIENCY				启动STALL		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE	功率 OUTPUT	转矩 TORQUE	电流 CURRENT	
			r/min	A	r/min	A	mN.m	g.cm	W	mN.m	g.cm
FQ-3145-2448	DC 18~30V	24VDC	4850	0.087	4150	0.45	8.24	84.048	7.37	52.22	532.64
FQ-3145-1248	DC 6~18V	12VDC	4800	0.16	4100	0.85	8.22	83.844	7.2	52.1	531.42
FQ-3151-2442	DC 18~30V	24VDC	4190	0.07	3258	0.32	12.01	122.5	3.5	38.07	388.31
FQ-3151-2435	DC 18~30V	24VDC	3581	0.054	2833	0.21	9.63	98.226	2.66	46.11	470.32
FQ-3151-1260	DC 6~18V	12VDC	6000	0.14	5280	1.1	17.65	180.03	9.75	155.5	1586.1
FQ-3176-2436	DC 18~30V	24VDC	3688	0.058	3127	0.323	15.82	161.36	5.23	104.03	1061.1
FQ-3176-2442	DC 18~30V	24VDC	4260	0.08	3650	0.43	18.78	191.35	7.2	132	1346.4
FQ-3176-1280	DC 6~18V	12VDC	8600	0.2	7850	2.1	22.9	233.58	18.8	148.5	1514.7
											20.3

马达性能曲线 Motor Performance Curve



Fengquan Micro Motor

PG31K10-31ZY51



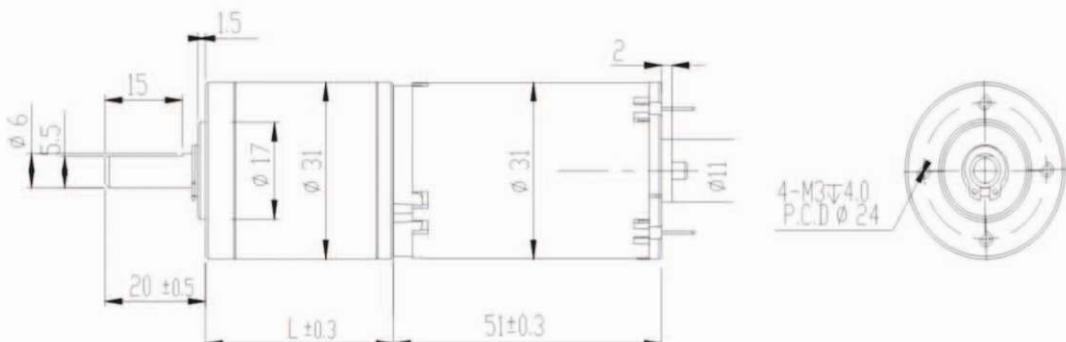
有刷行星减速电机 Brush Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.7, 1/5.2	29
2	1/13.7, 1/19, 1/27	36.5
3	1/50, 1/70, 1/100, 1/140	44.5
4	1/188, 1/263, 1/368, 1/515, 1/720	52.2

使用相对湿度: 20%~80% 使用温度范围: -10° C~+60° C
Operating relative humidity: 20%~80% Operating temperature range: -10° C~+60° C

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



齿轮减速电机 Geared Motor

型号 MODEL	电压 VOLTAGE		负载 LOAD		负载 LOAD			最大瞬间允许转矩 Max momentary tolerance torque	减速比 Reduction Ratio	
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE			
			r/min	A	r/min	A	N·m	W		
PG31K10-1/3.7	18~30VDC	24VDC	1300	0.09	1000	0.55	0.05	8.5	0.15	1/3.7
PG31K10-1/5.2	18~30VDC	24VDC	900	0.09	750	0.55	0.06	8.5	0.15	1/5.2
PG31K10-1/13.7	18~30VDC	24VDC	350	0.1	300	0.55	0.15	7.5	0.35	1/13.7
PG31K10-1/19	18~30VDC	24VDC	250	0.1	200	0.55	0.18	7.5	0.54	1/19.2
PG31K10-1/27	18~30VDC	24VDC	180	0.1	150	0.55	0.2	7.5	0.9	1/26.8
PG31K10-1/50	18~30VDC	24VDC	90	0.1	75	0.55	0.5	6.8	1.5	1/51
PG31K10-1/70	18~30VDC	24VDC	70	0.1	55	0.55	0.6	6.8	1.8	1/71
PG31K10-1/100	18~30VDC	24VDC	50	0.1	40	0.55	0.8	6.8	2.4	1/99.5
PG31K10-1/140	18~30VDC	24VDC	35	0.1	28	0.55	1	6.8	3	1/139.1
PG31K10-1/188	18~30VDC	24VDC	25	0.1	20	0.55	1.5	5.5	4.5	1/188.6
PG31K10-1/263	18~30VDC	24VDC	20	0.1	15	0.55	2	5.5	6 MAX	1/263.7
PG31K10-1/368	18~30VDC	24VDC	13	0.1	10	0.55	2	5.5	6 MAX	1/368.7
PG31K10-1/515	18~30VDC	24VDC	9.3	0.1	7.5	0.55	2	5.5	6 MAX	1/515.6
PG31K10-1/720	18~30VDC	24VDC	6.6	0.1	5.5	0.55	2	5.5	6 MAX	1/720.9

有刷直流电机特性 Brush DC Motor Characteristics

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		最大效率点 AT MAXIMUM EFFICIENCY			启动 STARTING		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE	输出功率 OUTPUT	转矩 TORQUE	电流 CURRENT
			r/min	A	r/min	A	mN·m	W	mN·m	A
FQ31ZY51	18~30VDC	24VDC	4760	0.08	3920	0.55	15	6.2	120	2.5

Fengquan Micro Motor

FQ-36ZY(3662|3687)

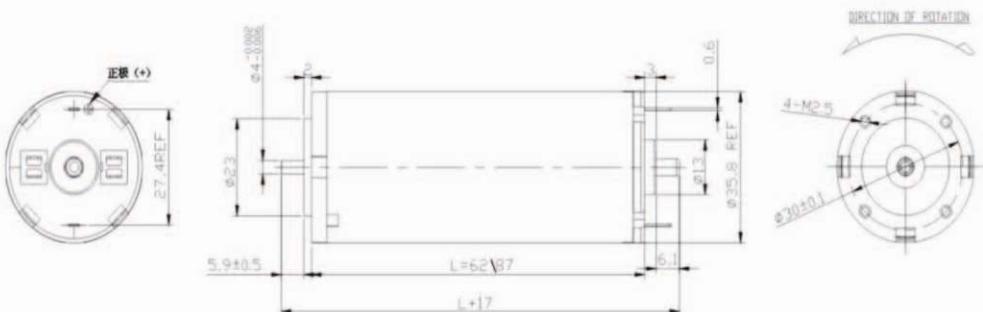


碳刷马达
Carbon-brush motors

输出功率：约1.0W-50W
OUTPUT: APPROX 1.0W-50W

我们公司可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

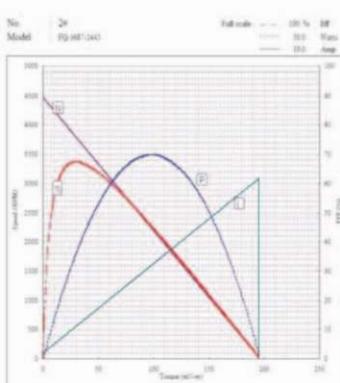
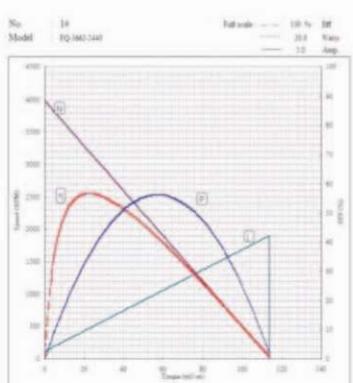
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		无负荷NO LOAD		最大效率点AT MAXIMUM EFFICIENCY				启动STALL		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE	功率 OUTPUT	转矩 TORQUE	电流 CURRENT	
			r/min	A	r/min	A	mNm	g.cm	W	mNm	g.cm
FQ-3662-1260	DC 9~15V	12VDC	6000	0.25	5300	1.5	22.4	228.5	12.4	160	1632
FQ-3662-1245	DC 9~15V	12VDC	4500	0.14	3900	0.85	19	193.8	8.01	142	1448
FQ-3662-1235	DC 9~15V	12VDC	3590	0.12	3000	0.62	17.5	178.5	5.02	113.2	1155
FQ-3662-2450	DC 18~30V	24VDC	5000	0.095	4200	0.5	20.7	211.1	8.3	134.1	1368
FQ-3662-2440	DC 18~30V	24VDC	4000	0.13	3200	0.52	22.7	231.5	7.15	114.5	1168
FQ-3662-2420	DC 18~30V	24VDC	2000	0.05	1570	0.19	15.8	161.2	2.5	75.9	774.2
FQ-3687-2423	DC 18~30V	24VDC	2300	0.06	1885	0.23	19.49	198.8	3.82	105.7	1078
FQ-3687-1225	DC 9~15V	12VDC	2500	0.13	2.68	0.54	17.93	182.9	3.84	93.8	956.8
FQ-3687-2445	DC 18~30V	24VDC	4500	0.21	3792	1.12	29.85	304.5	18	196.1	2001
FQ-3687-1260	DC 9~18V	12VDC	6000	0.41	4917	1.92	27.73	282.8	14.3	157.9	1611
											9.03

马达性能曲线 Motor Performance Curve



Fengquan Micro Motor

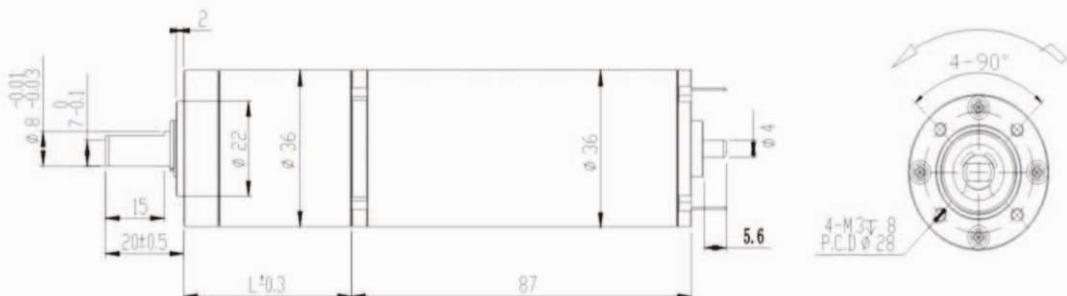
PG36K40-36ZY87



有刷行星减速电机 Brush Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.7, 1/5.2	23.5
2	1/13.7, 1/19, 1/27	33.5
3	1/50, 1/70, 1/100, 1/140	43
4	1/188, 1/263, 1/368, 1/515, 1/720	51
使用相对湿度：20%~80% 使用温度范围：-10° C → +60° C Operating relative humidity: 20%~80% Operating temperature range: -10° C → +60° C		
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.		

外形尺寸 APPERANCE SIZE



齿轮减速电机 Geared Motor

型号 MODEL	电压VOLTAGE		负载LOAD		负载LOAD			最大瞬间允许转矩 Max momentary tolerance torque	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE N.m				
PG36K40-1/3.7	18~30VDC	24VDC	620	0.08	480	0.44	0.1	4.7	0.3		
PG36K40-1/5.2	18~30VDC	24VDC	440	0.08	350	0.44	0.13	4.7	0.39		
PG36K40-1/13.7	18~30VDC	24VDC	166	0.09	130	0.44	0.3	4.2	0.9		
PG36K40-1/19	18~30VDC	24VDC	120	0.09	90	0.44	0.43	4.2	1.3		
PG36K40-1/27	18~30VDC	24VDC	85	0.09	68	0.44	0.6	4.2	1.8		
PG36K40-1/50	18~30VDC	24VDC	44	0.1	35	0.44	1	3.7	3		
PG36K40-1/70	18~30VDC	24VDC	33	0.1	25	0.44	1.4	3.7	4.2		
PG36K40-1/100	18~30VDC	24VDC	22	0.1	18	0.44	2	3.7	6		
PG36K40-1/140	18~30VDC	24VDC	16.5	0.1	13	0.44	2.7	3.7	8.1		
PG36K40-1/188	18~30VDC	24VDC	12	0.1	9.5	0.44	3.1	3	9.3		
PG36K40-1/263	18~30VDC	24VDC	8.8	0.1	6.6	0.44	4	3	12 MAX		
PG36K40-1/368	18~30VDC	24VDC	6	0.1	5	0.44	4	3	12 MAX		
PG36K40-1/515	18~30VDC	24VDC	4.5	0.1	3.5	0.44	4	3	12 MAX		
PG36K40-1/720	18~30VDC	24VDC	3.2	0.1	2.5	0.44	4	3	12 MAX		

有刷直流电机特性 Brush DC Motor Characteristics

型号 MODEL	电压VOLTAGE		空载 NO LOAD		最大效率点AT MAXIMUM EFFICIENCY			启动STARTING		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE mN.m	输出功率 OUTPUT W	转矩 TORQUE mN.m	电流 CURRENT A
FQ36ZY87	18~30VDC	24VDC	2320	0.08	1800	0.44	26	5.5	130	1.2

Fengquan Micro Motor

FQ-42(44)ZY(4262|4272|4292)

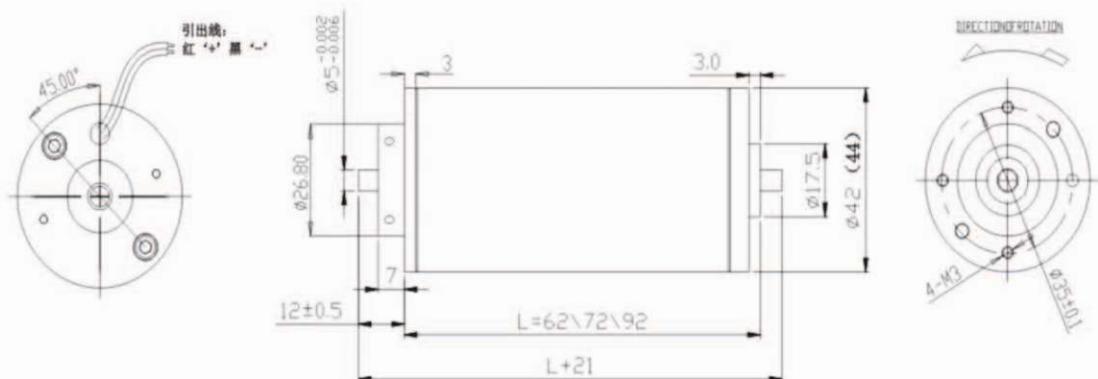


碳刷马达
Carbon-brush motors

输出功率：约1.0W-80W
OUTPUT: APPROX 1.0W-80W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

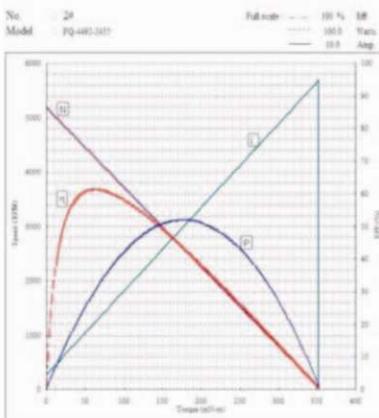
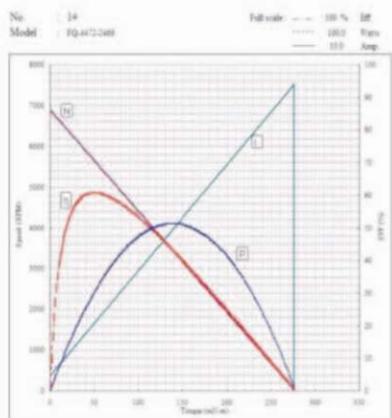
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		无负载NO LOAD				最大效率点AT MAXIMUM EFFICIENCY				启动STALL		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE	功率 OUTPUT	转矩 TORQUE	功率 OUTPUT	转速 SPEED	电流 CURRENT	
			r/min	A	r/min	A	mN.m	g.cm	W	mN.m	g.cm	A	
FQ-4462-2437	DC 18~30V	24VDC	3700	0.27	2860	0.95	40.2	410	11.8	182.4	1860	3.37	
FQ-4262-2447	DC 18~30V	24VDC	4700	0.31	3764	1.18	34.6	352.9	15.9	171.9	1753	4.71	
FQ-4472-2469	DC 18~30V	24VDC	6900	0.46	5645	2.01	50.2	512	30.4	277.7	2833	9.45	
FQ-4492-0630	DC 3~12V	6VDC	3000	0.65	2274	2.21	26.6	271.3	6.57	116.8	1191	17.5	
FQ-4292-1230	DC 9~18V	12VDC	3000	0.45	2400	2.35	62.5	637.5	17.4	355.6	3627	10.69	
FQ-4492-2452	DC 18~30V	24VDC	5200	0.45	4260	2.07	63.3	645.7	30.45	354.5	3616	9.5	

马达性能曲线 Motor Performance Curve

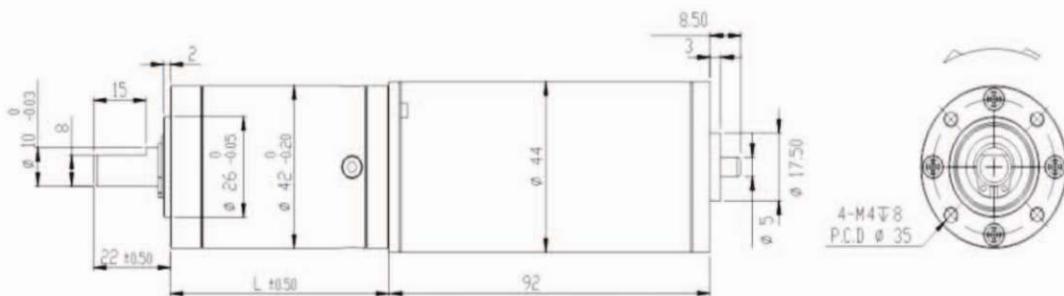


Fengquan Micro Motor

PG42K100-44ZY92



外形尺寸 APPERANCE SIZE



齿轮减速电机 Geared Motor

型号 MODEL	电压VOLTAGE		负载LOAD		负载LOAD		最大瞬间允许转矩 Max momentary tolerance torque	减速比 Reduction Ratio
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A		
PG42K100-1/3.7	18~30VDC	24VDC	950	0.3	770	1.25	0.2	16
PG42K100-1/5.2	18~30VDC	24VDC	670	0.3	550	1.25	0.26	16
PG42K100-1/13.7	18~30VDC	24VDC	255	0.3	210	1.25	0.65	14
PG42K100-1/19	18~30VDC	24VDC	180	0.3	150	1.25	0.9	14
PG42K100-1/27	18~30VDC	24VDC	130	0.3	105	1.25	1.2	14
PG42K100-1/50	18~30VDC	24VDC	68	0.35	55	1.25	2	12
PG42K100-1/70	18~30VDC	24VDC	50	0.35	40	1.25	3	12
PG42K100-1/100	18~30VDC	24VDC	35	0.35	28	1.25	4	12
PG42K100-1/140	18~30VDC	24VDC	25	0.35	20	1.25	5.5	12
PG42K100-1/188	18~30VDC	24VDC	18	0.35	15	1.25	8	10
PG42K100-1/263	18~30VDC	24VDC	13	0.35	11	1.25	8	10
PG42K100-1/368	18~30VDC	24VDC	10	0.35	7.8	1.25	8	10
PG42K100-1/515	18~30VDC	24VDC	6.6	0.35	5.5	1.25	8	10
PG42K100-1/720	18~30VDC	24VDC	4.8	0.35	4	1.25	8	10
							18 MAX	1/188.8
							18 MAX	1/263.7
							18 MAX	1/368.7
							18 MAX	1/515.6
							18 MAX	1/720.9

有刷直流电机特性 Brush DC Motor Characteristics

型号 MODEL	电压VOLTAGE		空载 NO LOAD		最大效率点AT MAXIMUM EFFICIENCY				启动STARTING	
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE mN.m	输出功率 OUTPUT W	转矩 TORQUE mN.m	电流 CURRENT A
FQ44ZY92	18~30VDC	24VDC	3479	0.27	2885	1.25	63.8	18.8	363.5	5.95

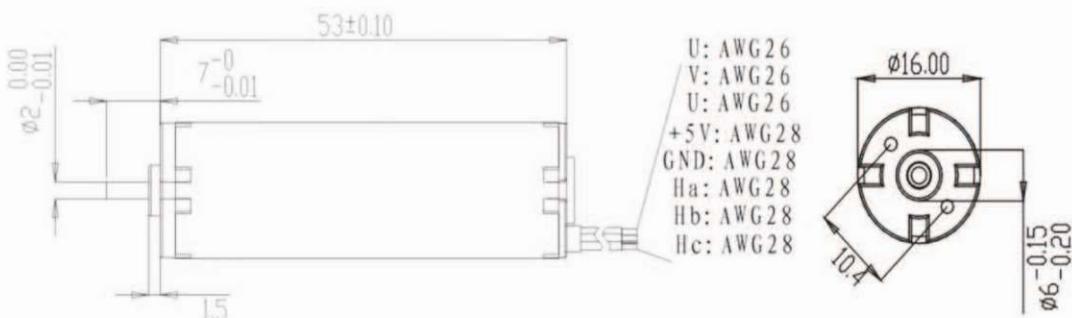
Fengquan Micro Motor

FQ-16BL



无刷电机 Brushless motor
输出功率：约1W-3W OUTPUT: APPROX 1W-3W
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.

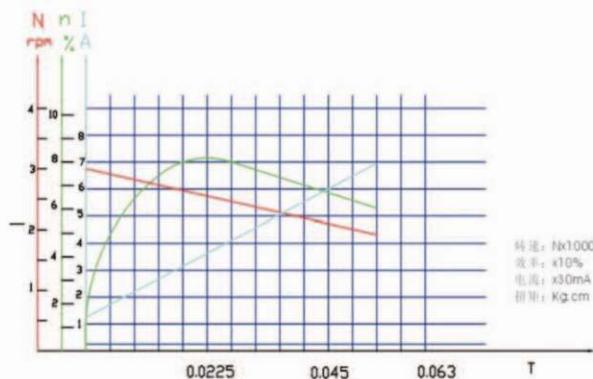
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD			负载 RATED			其它 OTHER		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	转矩 TORQUE	功率 OUTPUT	特性	极对数 2p	相数 m	
			r/min	A	r/min	N.m	g.cm				
FQ-BL16-1250	DC 10.2~14.4V	12VDC	5400	0.04	4400	0.003	3.06	1.38	开关锁定	4	3
FQ-BL16-1250	DC 10.2~14.4V	12VDC	5000	0.04	4032	0.004	4.08	1.69	开关锁定	4	3
FQ-BL16-1260	DC 10.2~14.4V	12VDC	6000	0.02	4839	0.002	2.04	1.01	开关锁定	4	3
FQ-BL16-12100	DC 10.2~14.4V	12VDC	10000	0.03	8065	0.0015	1.53	1.27	开关锁定	4	3
FQ-BL16-1280	DC 10.2~14.4V	12VDC	8000	0.02	6452	0.0013	1.326	0.88	开关锁定	4	3

电机性能曲线 Motor Performance Curve



Fengquan Micro Motor

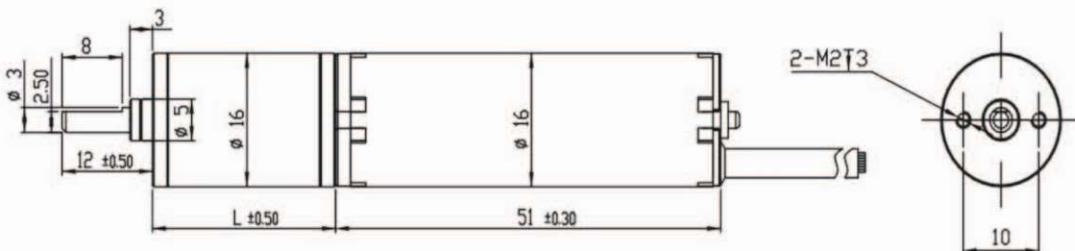
PG16K4-16BL51



无刷行星减速电机 Brushless Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/4.0, 1/4.75	17
2	1/16, 1/19, 1/22.5	20.5
3	1/64, 1/76, 1/90, 1/107	24.3
4	1/256, 1/304, 1/361, 1/428, 1/509	28
使用相对湿度 20%~80% 使用温度范围: -10°C~+60°C Operating relative humidity 20%~80% Operating temperature range: -10°C~+60°C		
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.		

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		负载 LOAD		负载 LOAD		最大瞬间允许转矩 Max momentary tolerance torque N·cm	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A				
			r/min	A	r/min	A				
PG16K4-1/4	DC10.2~14.4V	12VDC	1330	0.04	1100	0.18	0.2	1.3	0.6	1/4.0
PG16K4-1/4.75	DC10.2~14.4V	12VDC	1100	0.04	920	0.18	0.25	1.3	0.75	1/4.75
PG16K4-1/16	DC10.2~14.4V	12VDC	330	0.05	280	0.18	0.8	1.1	2.4	1/16.0
PG16K4-1/19	DC10.2~14.4V	12VDC	280	0.05	230	0.18	1	1.1	3	1/19.0
PG16K4-1/22.5	DC10.2~14.4V	12VDC	230	0.05	200	0.18	1.2	1.1	3.6	1/22.5
PG16K4-64	DC10.2~14.4V	12VDC	80	0.06	70	0.18	1.8	1	4.8	1/64
PG16K4-1/76	DC10.2~14.4V	12VDC	70	0.06	60	0.18	3	1	9	1/76
PG16K4-1/90	DC10.2~14.4V	12VDC	60	0.06	50	0.18	4.2	1	12.6	1/90
PG16K4-1/107	DC10.2~14.4V	12VDC	50	0.06	40	0.18	5	0.8	15	1/107
PG16K4-1/256	DC10.2~14.4V	12VDC	20	0.06	17	0.18	10.5	0.8	31.5	1/256
PG16K4-1/304	DC10.2~14.4V	12VDC	17	0.06	14	0.18	12	0.8	36	1/304
PG16K4-1/360	DC10.2~14.4V	12VDC	15	0.06	12	0.18	14	0.8	42	1/360
PG16K4-1/428	DC10.2~14.4V	12VDC	12	0.06	10	0.18	16	0.8	48	1/428
PG16K4-1/509	DC10.2~14.4V	12VDC	10	0.06	8.5	0.18	18	0.8	54	1/509

无刷直流电机特性 BRUSLESS DC MOTOR

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		负载 LOAD				效率 EFFICIENCY %
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE kg·cm	输出功率 OUTPUT W	
			r/min	A	r/min	A	kg·cm	W	
FQ16BL51	DC10.2~14.4V	12VDC	5600	0.04	4500	0.18	0.3	1.5	70

Fengquan Micro Motor

FQ-22BL

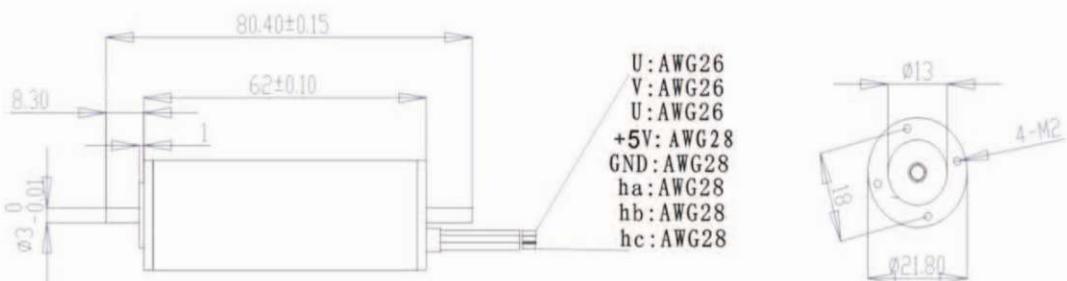


无刷电机
Brushless motor

输出功率：约1W-5W
OUTPUT: APPROX 1W-5W

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customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		负载 RATED			其它 OTHER			
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	扭矩 TORQUE		功率 OUTPUT	传感器	极对数 2p	相数 m
			r/min	A	r/min	N m	g cm	W			
FQ-BL22-1250	DC 10.2~14.4V	12VDC	5400	0.4	4100	0.005	5.1	2.15	开关锁定	4	3
FQ-BL22-1260	DC 10.2~14.4V	12VDC	6000	0.11	4800	0.01	10.2	5.03	开关锁定	4	3
FQ-BL22-1240	DC 10.2~14.4V	12VDC	4000	0.04	3200	0.006	6.12	2.01	开关锁定	4	3
FQ-BL22-1270	DC 10.2~14.4V	12VDC	7000	0.10	5600	0.008	8.16	4.69	开关锁定	4	3
FQ-BL22-1280	DC 10.2~14.4V	12VDC	8000	0.05	6400	0.0032	3.264	2.14	开关锁定	4	3

电机性能曲线 Motor Performance Curve



Fengquan Micro Motor

PG22K4-22BL62

无刷行星减速电机 Brushless Planetary Gear Motor

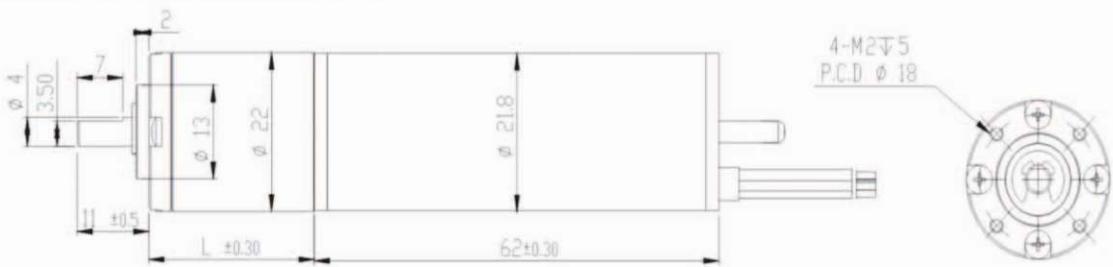


级数 Series	减速比 Reduction Ratio	L
1	1/3.5, 1/4.0, 1/4.75	15.5
2	1/12.25, 1/16, 1/19, 1/22.5	20.3
3	1/42.87, 1/64, 1/76, 1/90, 1/107	25.4
4	1/150, 1/256, 1/304, 1/361, 1/428, 1/509	30.4

使用相对湿度：20%~80% 使用温度范围：-10° C ~+60° C
Operating relative humidity: 20%~80% Operating temperature range: -10°C ~+60°C

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		负载 LOAD		负载 LOAD		最大瞬间允许转矩 Max momentary tolerance torque N·cm	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A				
			r/min	A	r/min	A				
PG22K4-1/3.5	DC10.2~14.4V	12VDC	1714	0.05	1371	0.13	1	1.6	3	1/3.5
PG22K4-1/4	DC10.2~14.4V	12VDC	1500	0.05	1200	0.13	1.2	1.6	3.6	1/4.0
PG22K4-1/4.75	DC10.2~14.4V	12VDC	1263	0.05	1010	0.13	3	1.6	9	1/4.75
PG22K4-1/12.2	DC10.2~14.4V	12VDC	492	0.06	394	0.13	4	1.4	12	1/12.2
PG22K4-1/16	DC10.2~14.4V	12VDC	375	0.06	300	0.13	4.2	1.4	12.6	1/16.0
PG22K4-1/19	DC10.2~14.4V	12VDC	316	0.06	253	0.13	5	1.4	15	1/19.0
PG22K4-1/22.5	DC10.2~14.4V	12VDC	267	0.06	214	0.13	10	1.4	30	1/22.5
PG22K4-1/42.8	DC10.2~14.4V	12VDC	140	0.07	112	0.13	12	1.2	36	1/42.8
PG22K4-1/64	DC10.2~14.4V	12VDC	94	0.07	75	0.13	14	1.2	42	1/64
PG22K4-1/76	DC10.2~14.4V	12VDC	79	0.07	63	0.13	18	1.2	54	1/76
PG22K4-1/90	DC10.2~14.4V	12VDC	67	0.07	54	0.13	20	1.2	60	1/90
PG22K4-1/107	DC10.2~14.4V	12VDC	56	0.07	45	0.13	30	1.2	90	1/107
PG22K4-1/150	DC10.2~14.4V	12VDC	40	0.07	32	0.13	40	1	120 MAX	1/150
PG22K4-1/256	DC10.2~14.4V	12VDC	23	0.07	18	0.13	50	1	120 MAX	1/256
PG22K4-1/304	DC10.2~14.4V	12VDC	20	0.07	16	0.13	60	1	120 MAX	1/304
PG22K4-1/360	DC10.2~14.4V	12VDC	17	0.07	14	0.13	60	1	120 MAX	1/360
PG22K4-1/428	DC10.2~14.4V	12VDC	14	0.07	11	0.13	60	1	120 MAX	1/428
PG22K4-1/509	DC10.2~14.4V	12VDC	12	0.07	10	0.13	60	1	120 MAX	1/509

无刷直流电机特性 BRUSLESS DC MOTOR

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		负载 LOAD				效率 EFFICIENCY %
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE kg·cm	输出功率 OUTPUT W	
			r/min	A	r/min	A	kg·cm	W	
FG22BL62	DC10.2~14.4V	12VDC	6000	0.05	4500	0.22	0.5	2	72

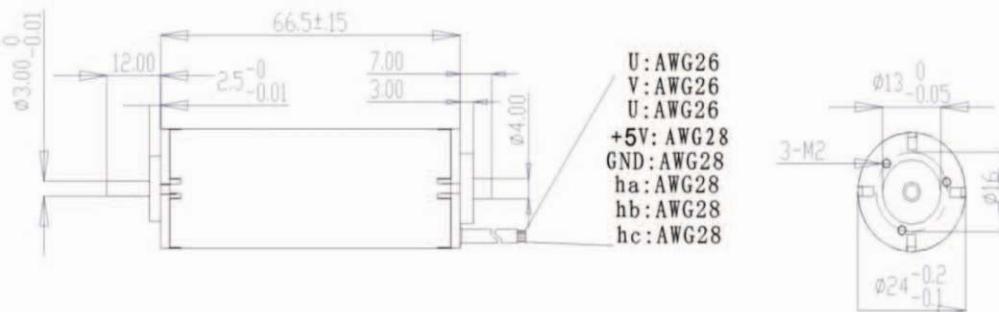
Fengquan Micro Motor

FQ-24BL



无刷电机 Brushless motor
输出功率: 约1W-5W OUTPUT: APPROX 1W-5W
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		负载 RATED			其它 OTHER		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	扭矩 TORQUE		功率 OUTPUT	传感器	极对数 PAIRS
			r/min	A	r/min	N.m	g.cm	W		
FQ-BL24-2440	DC 18~28V	24VDC	5000	0.15	4100	0.012	12.24	5.15	开关锁定	4
FQ-BL24-1230	DC 10.2~14.4V	12VDC	3300	0.36	2100	0.018	18.36	3.96	开关锁定	4
FQ-BL24-1260	DC 10.2~14.4V	12VDC	6000	0.26	5000	0.01	10.2	5.24	开关锁定	4
FQ-BL24-1240	DC 10.2~14.4V	12VDC	4000	0.12	3333	0.013	13.26	4.54	开关锁定	4
FQ-BL24-1220	DC 10.2~14.4V	12VDC	2000	0.09	1667	0.022	22.44	3.84	开关锁定	4

电机性能曲线 Motor Performance Curve



Fengquan Micro Motor

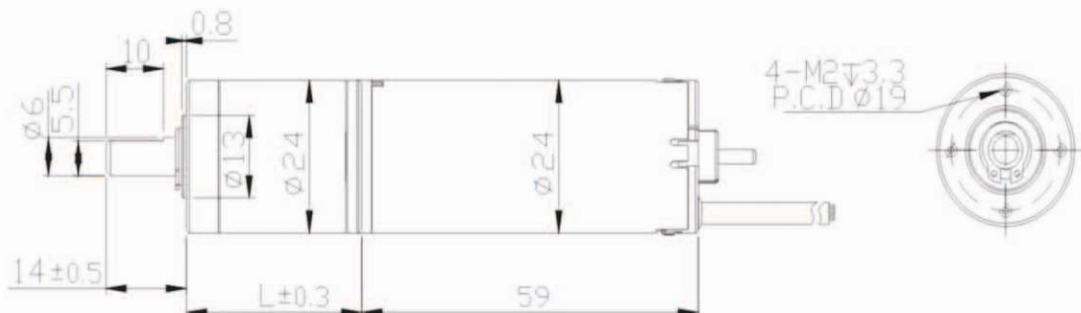
PG24K5-24BL59



无刷行星减速电机 Brushless Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.5, 1/4.0, 1/4.75	25.2
2	1/12.2, 1/16, 1/19, 1/22.5	30.5
3	1/42.8, 1/64, 1/76, 1/90, 1/107	35.5
4	1/150, 1/256, 1/304, 1/361, 1/428, 1/509	40.7
使用相对湿度: 20%~80% 使用温度范围: -10°C~+60°C Operating relative humidity: 20%~80% Operating temperature range: -10°C~+60°C		
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.		

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压VOLTAGE		负载LOAD			负载LOAD			最大瞬间允许转矩 Max.momentary tolerance torque	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE N·cm	输出功率 OUTPUT W				
PG16K4-1/4	DC10.2~14.4V	12VDC	1330	0.04	1100	0.18	0.2	1.3	0.6	1/4.0		
PG16K4-1/4.75	DC10.2~14.4V	12VDC	1100	0.04	920	0.18	0.25	1.3	0.75	1/4.75		
PG16K4-1/16	DC10.2~14.4V	12VDC	330	0.05	280	0.18	0.8	1.1	2.4	1/16.0		
PG16K4-1/19	DC10.2~14.4V	12VDC	280	0.05	230	0.18	1	1.1	3	1/19.0		
PG16K4-1/22.5	DC10.2~14.4V	12VDC	230	0.05	200	0.18	1.2	1.1	3.6	1/22.5		
PG16K4-1/64	DC10.2~14.4V	12VDC	80	0.06	70	0.18	1.8	1	4.8	1/64		
PG16K4-1/76	DC10.2~14.4V	12VDC	70	0.06	60	0.18	3	1	9	1/76		
PG16K4-1/90	DC10.2~14.4V	12VDC	60	0.06	50	0.18	4.2	1	12.6	1/90		
PG16K4-1/107	DC10.2~14.4V	12VDC	50	0.06	40	0.18	5	0.8	15	1/107		
PG16K4-1/256	DC10.2~14.4V	12VDC	20	0.06	17	0.18	10.5	0.8	31.5	1/256		
PG16K4-1/304	DC10.2~14.4V	12VDC	17	0.06	14	0.18	12	0.8	36	1/304		
PG16K4-1/360	DC10.2~14.4V	12VDC	15	0.06	12	0.18	14	0.8	42	1/360		
PG16K4-1/428	DC10.2~14.4V	12VDC	12	0.06	10	0.18	16	0.8	48	1/428		
PG16K4-1/509	DC10.2~14.4V	12VDC	10	0.06	8.5	0.18	18	0.8	54	1/509		

无刷直流电机特性 BRUSLESS DC MOTOR

型号 MODEL	电压VOLTAGE		空载 NO LOAD		最大效率点AT MAXIMUM EFFICIENCY				启动STARTING	
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速	电流	转速	电流	转矩	输出功率	转矩	电流
			r/min	A	r/min	A	Kg·cm	W	MN·m	A
FQ24BL59	DC18~28V	24VDC	4100	0.04	3300	0.18	0.6	2.2	30	0.7

Fengquan Micro Motor

FQ-28BL

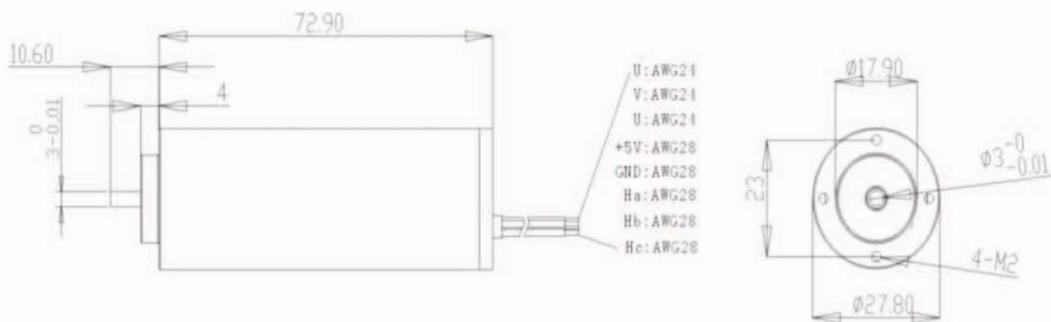


无刷电机
Brushless motor

输出功率: 约1W-10W
OUTPUT: APPROX 1W-10W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		负载 RATED			其它 OTHER		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	扭矩 TORQUE N.m	功率 OUTPUT W	传感器	极对数 2p	相数 m
FQ-BL28-2440	DC 18~28V	24VDC	4000	0.25	3050	0.03	30.6	9.58	开关锁定	4
FQ-BL28-1230	DC 10.2~14.4V	12VDC	3100	0.09	2200	0.026	26.52	5.99	开关锁定	4
FQ-BL28-1250	DC 10.2~14.4V	12VDC	5000	0.19	4000	0.02	20.4	8.38	开关锁定	4
FQ-BL28-1240	DC 10.2~14.4V	12VDC	4000	0.11	3077	0.015	15.3	4.83	开关锁定	4
FQ-BL28-1245	DC 10.2~14.4V	12VDC	4500	0.13	3462	0.015	15.3	5.44	开关锁定	4
FQ-BL28-1225	DC 10.2~14.4V	12VDC	2500	0.12	1923	0.025	25.5	5.03	开关锁定	4

电机性能曲线 Motor Performance Curve

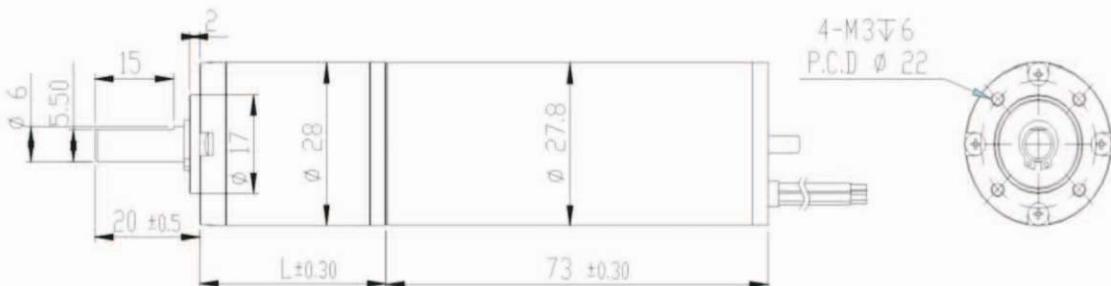


Fengquan Micro Motor

PG28K5-28BL73



外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		负载 LOAD			负载 LOAD			最大瞬间允许转矩 Max. momentary tolerance torque N·cm	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE N·cm	输出功率 OUTPUT W				
PG28K5-1/3.5	DC10.2~14.4V	12VDC	1400	0.07	1100	0.33	2	2.6	9	1/3.5		
PG28K5-1/4	DC10.2~14.4V	12VDC	1250	0.07	1000	0.33	2.4	2.6	12	1/4.0		
PG28K5-1/4.75	DC10.2~14.4V	12VDC	1000	0.07	850	0.33	2.8	2.6	15	1/4.75		
PG28K5-1/12.2	DC10.2~14.4V	12VDC	400	0.08	330	0.33	6.5	2.3	36	1/12.2		
PG28K5-1/16	DC10.2~14.4V	12VDC	300	0.08	250	0.33	8.5	2.3	45	1/16.0		
PG28K5-1/19	DC10.2~14.4V	12VDC	260	0.08	210	0.33	10	2.3	54	1/19.0		
PG28K5-1/22.5	DC10.2~14.4V	12VDC	220	0.08	180	0.33	12	2.3	60	1/22.5		
PG28K5-1/42.8	DC10.2~14.4V	12VDC	115	0.09	95	0.33	20	2	105	1/42.8		
PG28K5-1/64	DC10.2~14.4V	12VDC	78	0.09	64	0.33	30	2	90	1/64		
PG28K5-1/76	DC10.2~14.4V	12VDC	65	0.09	52	0.33	35	2	105	1/76		
PG28K5-1/90	DC10.2~14.4V	12VDC	55	0.09	45	0.33	40	2	120	1/90		
PG28K5-1/107	DC10.2~14.4V	12VDC	45	0.09	38	0.33	50	2	150 MAX	1/107		
PG28K5-1/150	DC10.2~14.4V	12VDC	33	0.09	27	0.33	60	1.7	150 MAX	1/150		
PG28K5-1/256	DC10.2~14.4V	12VDC	20	0.09	16	0.33	80	1.7	150 MAX	1/256		
PG28K5-1/304	DC10.2~14.4V	12VDC	16	0.09	13.3	0.33	110	1.7	150 MAX	1/304		
PG28K5-1/360	DC10.2~14.4V	12VDC	13.8	0.09	11.3	0.33	130	1.7	150 MAX	1/360		
PG28K5-1/428	DC10.2~14.4V	12VDC	11.5	0.09	9.5	0.33	140	1.7	150 MAX	1/428		
PG28K5-1/509	DC10.2~14.4V	12VDC	10	0.09	8	0.33	140	1.7	150 MAX	1/509		

无刷直流电机特性 BRUSLESS DC MOTOR

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		负载 LOAD					效率 EFFICIENCY %	
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE kg·cm	输出功率 OUTPUT W			
FQ28BL73	DC10.2~14.4V	12VDC	5000	0.07	4100	0.33	0.7	3	76		

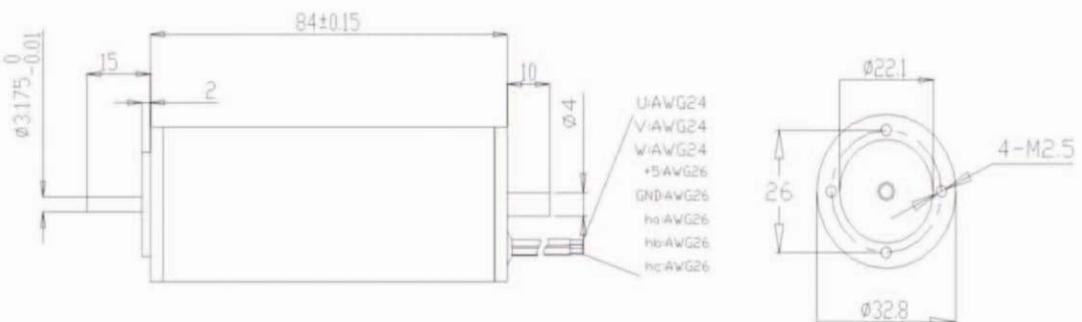
Fengquan Micro Motor

FQ-33BL



无刷电机 Brushless motor
输出功率：约1W-20W OUTPUT: APPROX 1W-20W
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.

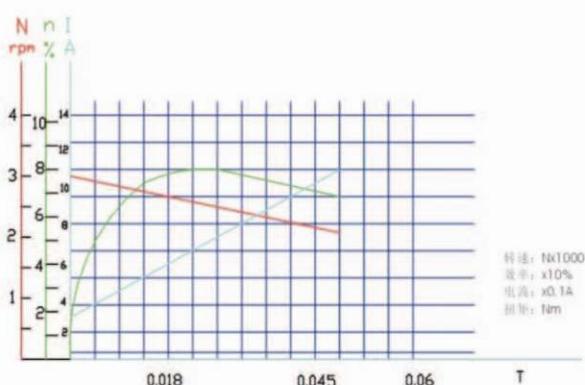
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		负载 RATED			其它 OTHER			
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	转矩 TORQUE		功率 OUTPUT	传感器	极对数 2p	相数 m
			r/min	A	r/min	N.m	g.cm	W			
FQ-BL33-2460	DC 18~28V	24VDC	6000	0.25	4900	0.039	39.78	20.01	开关锁定	4	3
FQ-BL33-1230	DC 10.2~14.4V	12VDC	3100	0.36	2100	0.035	35.7	7.70	开关锁定	4	3
FQ-BL33-2450	DC 10.2~14.4V	12VDC	5000	0.37	4000	0.036	36.72	15.08	开关锁定	4	3
FQ-BL33-2420	DC 18~28	24VDC	2000	0.15	1600	0.08	81.6	13.40	开关锁定	4	3
FQ-BL33-2440	DC 18~28	24VDC	4000	0.23	3200	0.06	61.2	20.10	开关锁定	4	3

电机性能曲线 Motor Performance Curve



Fengquan Micro Motor

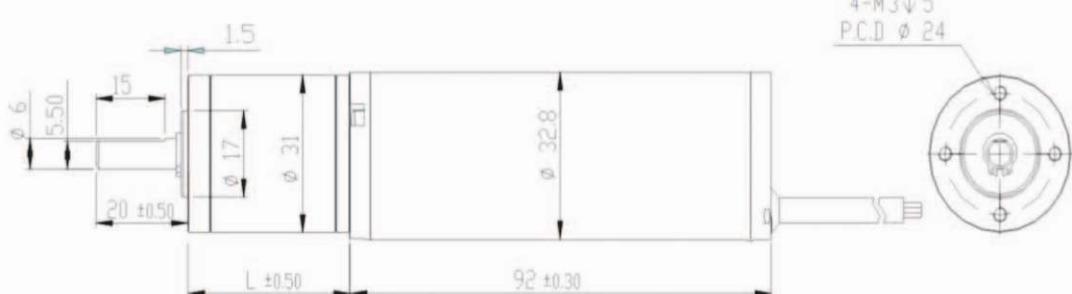
PG31K20-33BL92



无刷行星减速电机 Brushless Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.7, 1/5.2	29
2	1/13.7, 1/19, 1/27	36.5
3	1/50, 1/70, 1/100, 1/140	44.5
4	1/188, 1/263, 1/368, 1/515, 1/720	52.2
使用相对湿度: 20%~80% 使用温度范围: -10°C~+60°C Operating relative humidity: 20%~80% Operating temperature range: -10°C~+60°C		
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.		

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		负载 LOAD		负载 LOAD		最大瞬间允许转矩 Max momentary tolerance torque	减速比 Reduction Ratio
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT		
PG31K10-1/3.7	DC10.2~14.4V	12VDC	830	0.2	580	1.1	0.1	6.5
PG31K10-1/5.2	DC10.2~14.4V	12VDC	570	0.2	400	1.1	0.12	6.5
PG31K10-1/13.7	DC10.2~14.4V	12VDC	210	0.22	150	1.1	0.35	5.8
PG31K10-1/19	DC10.2~14.4V	12VDC	150	0.22	110	1.1	0.5	5.8
PG31K10-1/27	DC10.2~14.4V	12VDC	110	0.22	77	1.1	0.7	5.8
PG31K10-1/50	DC10.2~14.4V	12VDC	60	0.22	42	1.1	1.1	5
PG31K10-1/70	DC10.2~14.4V	12VDC	43	0.22	30	1.1	1.5	5
PG31K10-1/100	DC10.2~14.4V	12VDC	30	0.22	40	1.1	2	5
PG31K10-1/140	DC10.2~14.4V	12VDC	21	0.22	14	1.1	2	5
PG31K10-1/188	DC10.2~14.4V	12VDC	15	0.22	11	1.1	2	4.2
PG31K10-1/263	DC10.2~14.4V	12VDC	11	0.22	8	1.1	2	4.2
PG31K10-1/368	DC10.2~14.4V	12VDC	8	0.22	5.5	1.1	2	4.2
PG31K10-1/515	DC10.2~14.4V	12VDC	5.8	0.22	4	1.1	2	4.2
PG31K10-1/720	DC10.2~14.4V	12VDC	4	0.22	3	1.1	2	4.2

无刷直流电机特性 BRUSLESS DC MOTOR

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		负载 LOAD				效率 EFFICIENCY
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	电流 CURRENT	转矩 TORQUE	输出功率 OUTPUT	
			r/min	A	r/min	A	Kg·cm	W	
FQ33BL92	DC10.2~14.4V	12VDC	3000	0.2	2100	1.1	0.035	7.7	78

Fengquan Micro Motor

FQ-36BL

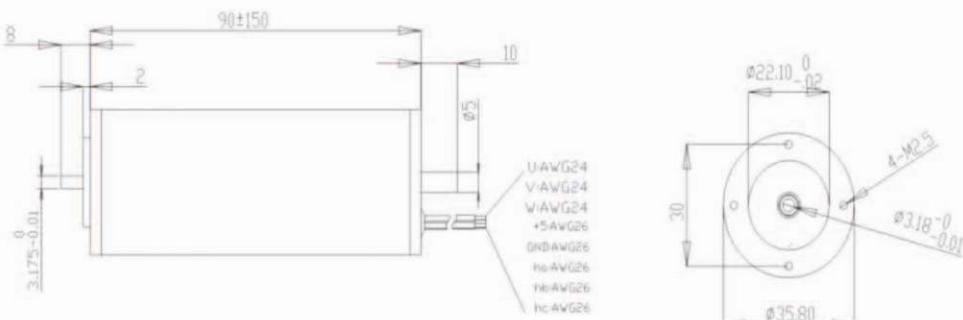


无刷电机
Brushless motor

输出功率：约1W-40W
OUTPUT: APPROX 1W-40W

我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to
customers' drawings, sample parameters and so on.

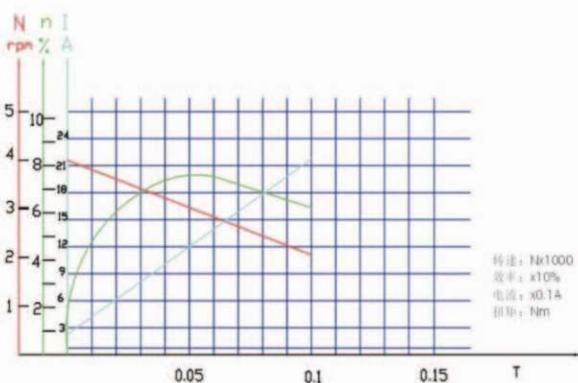
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		负载 RATED			其它 OTHER			
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	转矩 TORQUE		功率 OUTPUT	传感器	极对数	相数
			r/min	A	r/min	N.m	g.cm	W			
FQ-BL36-2440	DC18~28V	24VDC	4000	0.25	3100	0.055	56.1	17.85	开关锁定	4	3
FQ-BL36-1230	DC10.2~14.4V	12VDC	3100	0.42	2050	0.04	40.8	8.59	开关锁定	4	3
FQ-BL36-24100	DC18~28V	24VDC	10000	0.29	7143	0.028	28.56	20.94	开关锁定	4	3
FQ-BL36-2480	DC18~28V	24VDC	8000	0.23	5714	0.03	30.6	17.95	开关锁定	4	3
FQ-BL36-2450	DC18~28V	24VDC	5000	0.23	3704	0.05	51	19.39	开关锁定	4	3

电机性能曲线 Motor Performance Curve



Fengquan Micro Motor

PG36K40-36BL90

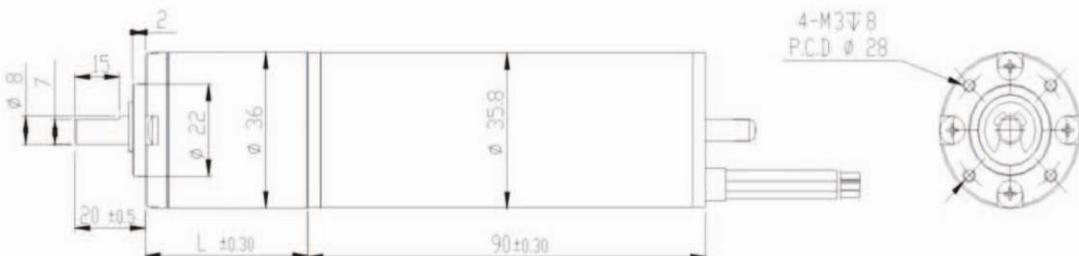


无刷行星减速电机 Brushless Planetary Gear Motor

级数 Series	减速比 Reduction Ratio	L
1	1/3.7, 1/5.2	23.5
2	1/13.7, 1/19, 1/27	33.5
3	1/50, 1/70, 1/100, 1/140	43
4	1/188, 1/263, 1/368, 1/515, 1/720	51

使用相对湿度 20%~80% 使用温度范围: -10° C ~+60° C
Operating relative humidity 20%~80% Operating temperature range: -10° C ~+60° C
我们公司已可以按客户的图纸、样品参数等要求定做产品。
Our company has ordered the products according to customers' drawings, sample parameters and so on.

外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		负载 LOAD		负载 LOAD		最大瞬间允许转矩 Max momentary tolerance torque N·cm	减速比 Reduction Ratio	
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A			
			N·cm	W	N·cm	W			
PG36K40-1/3.7	DC18~28V	24VDC	1050	0.26	830	1.2	0.18	15	1/3.7
PG36K40-1/5.2	DC18~28V	24VDC	750	0.26	570	1.2	0.22	15	1/5.2
PG36K40-1/13.7	DC18~28V	24VDC	300	0.26	210	1.2	0.6	13.5	1/13.7
PG36K40-1/19	DC18~28V	24VDC	210	0.26	150	1.2	0.8	13.5	1/19.2
PG36K40-1/27	DC18~28V	24VDC	150	0.26	110	1.2	1.2	13.5	1/26.8
PG36K40-1/50	DC18~28V	24VDC	80	0.27	60	1.2	2	12	1/51
PG36K40-1/70	DC18~28V	24VDC	57	0.27	43	1.2	2.5	12	1/71
PG36K40-1/100	DC18~28V	24VDC	40	0.27	30	1.2	3	12	1/99.5
PG36K40-1/140	DC18~28V	24VDC	28	0.27	21	1.2	3.5	12	1/139.1
PG36K40-1/188	DC18~28V	24VDC	20	0.28	15	1.2	4	10	12 MAX
PG36K40-1/263	DC18~28V	24VDC	15	0.28	11	1.2	4	10	12 MAX
PG36K40-1/368	DC18~28V	24VDC	11	0.28	8	1.2	4	10	12 MAX
PG36K40-1/515	DC18~28V	24VDC	8	0.28	5.8	1.2	4	10	12 MAX
PG36K40-1/720	DC18~28V	24VDC	5.5	0.28	4	1.2	4	10	12 MAX

无刷直流电机特性 BRUSLESS DC MOTOR

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		负载 LOAD				效率 EFFICIENCY %
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE N.m	输出功率 OUTPUT W	
			r/min	A	r/min	A	N.m	W	
FQ36BL90	DC18~28V	24VDC	4000	0.25	3100	1.2	0.055	18	75

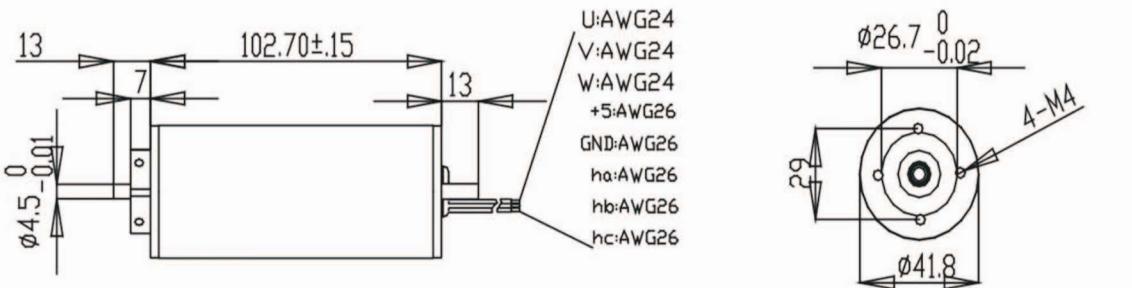
Fengquan Micro Motor

FQ-42BL



无刷电机 Brushless motor
输出功率: 约1W-80W OUTPUT: APPROX 1W-80W
我们公司已可以按客户的图纸、样品参数等要求定做产品。 Our company has ordered the products according to customers' drawings, sample parameters and so on.

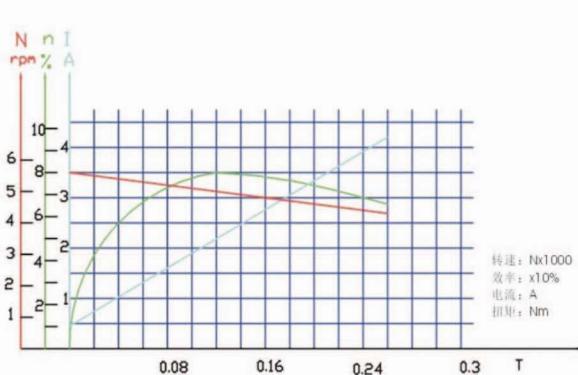
外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		无负荷 NO LOAD		负载 RATED				其它 OTHER		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED	电流 CURRENT	转速 SPEED	扭矩 TORQUE		功率 OUTPUT	传感器	极对数 2p	相数 m
			r/min	A	r/min	N.m	g.cm	W			
FQ-BL42-2450	DC 18~28V	24VDC	5500	0.67	4200	0.13	132.6	57.17	开关锁定	4	3
FQ-BL42-2430	DC 18~28V	24VDC	3000	0.17	2100	0.07	71.4	15.39	开关锁定	4	3
FQ-BL42-1230	DC 10.2~14.4V	12VDC	3000	0.33	2050	0.07	71.4	15.03	开关锁定	4	3
FQ-BL42-3680	DC 28~36V	36VDC	8500	0.38	6538	0.065	66.3	44.50	开关锁定	4	3
FQ-BL42-36100	DC 28~36V	36VDC	10000	0.25	7692	0.035	35.7	28.19	开关锁定	4	3

电机性能曲线 Motor Performance Curve



Fengquan Micro Motor

PG42K100-42BL103

无刷行星减速电机 Brushless Planetary Gear Motor



外形尺寸 APPERANCE SIZE



典型技术参数 Typical Technical Parameter

型号 MODEL	电压 VOLTAGE		负载 LOAD		负载 LOAD		最大瞬间允许转矩 Max. momentary tolerance torque N·cm	减速比 Reduction Ratio		
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A				
PG42K100-1/3.7	DC18~28V	24VDC	830	0.2	580	0.85	0.2	13	0.6	1/3.7
PG42K100-1/5.2	DC18~28V	24VDC	570	0.2	400	0.85	0.26	13	0.78	1/5.2
PG42K100-1/13.7	DC18~28V	24VDC	210	0.22	150	0.85	0.65	11.5	1.95	1/13.7
PG42K100-1/19	DC18~28V	24VDC	150	0.22	110	0.85	0.9	11.5	2.7	1/19.2
PG42K100-1/27	DC18~28V	24VDC	110	0.22	77	0.85	1.2	11.5	3.6	1/26.8
PG42K100-1/50	DC18~28V	24VDC	60	0.22	42	0.85	2	10	6	1/51
PG42K100-1/70	DC18~28V	24VDC	43	0.22	30	0.85	3	10	9	1/71
PG42K100-1/100	DC18~28V	24VDC	30	0.22	40	0.85	4	10	12	1/99.5
PG42K100-1/140	DC18~28V	24VDC	21	0.22	14	0.85	5.5	10	16.5	1/139.1
PG42K100-1/188	DC18~28V	24VDC	15	0.22	11	0.85	6	8.5	18 MAX	1/188.6
PG42K100-1/263	DC18~28V	24VDC	11	0.22	8	0.85	6	8.5	18 MAX	1/263.7
PG42K100-1/368	DC18~28V	24VDC	8	0.22	5.5	0.85	6	8.5	18 MAX	1/368.7
PG42K100-1/515	DC18~28V	24VDC	5.8	0.22	4	0.85	6	8.5	18 MAX	1/515.6
PG42K100-1/720	DC18~28V	24VDC	4	0.22	3	0.85	6	8.5	18 MAX	1/720.9

无刷直流电机特性 BRUSHLESS DC MOTOR

型号 MODEL	电压 VOLTAGE		空载 NO LOAD		负载 LOAD				效率 EFFICIENCY %
	使用范围 OPERATING RANGE	额定值 NOMINAL	转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE N.m	输出功率 OUTPUT W	
			r/min	A	r/min	A	N.m	W	
FQ42BL103	DC18~28V	24VDC	3000	0.2	2100	0.85	0.07	15.4	75

Fengquan Micro Motor

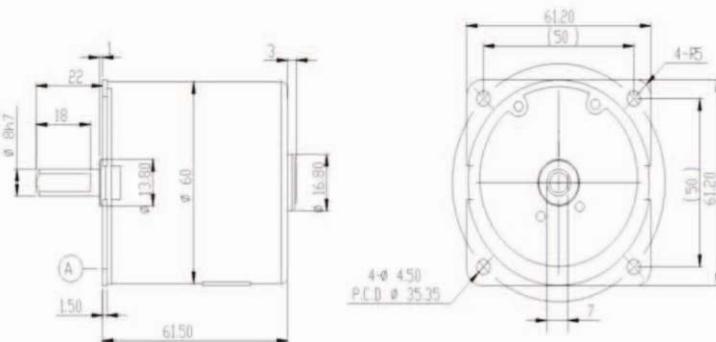
60TYD-A

我们公司已可以按客户的图纸、样品参数等要求定做产品。

Our company has ordered the products according to
customers' drawings, sample parameters and so on.



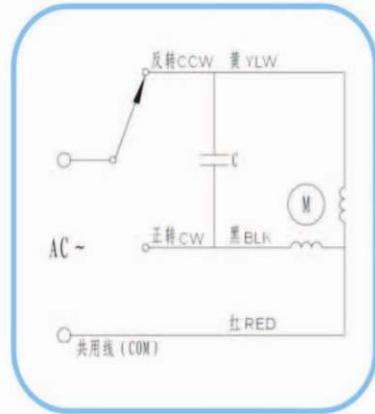
外形尺寸 APPERANCE SIZE



电机参数 Motor parameters

电压VOLTAGE (AC)	24/110/220						
频率FREQUENCY (Hz)	50/60						
输出转速OUTPUT SPEED (RPM)	2.5/3	5/6	10/12	15/18	20/24	25/30	30/36
输出力矩OUTPUT TORQUE (N·m)	10MAX	9	4.5	3	2.2	1.8	1.5
输入功率INPUT POWER (W)	18						
电流CURRENT (A)	2.0/0.44/0.22						
电容CAPACITOR (μF)	90/6.0/1.5						
温升MAX TEMP RISE (K)	< 90						
绝缘等级INSULATION	B						
绝缘耐压TEST VOLTAGE (V/MIN)	1500V/MIN						

电机接线图
Motor the wiring diagram



Fengquan Micro Motor

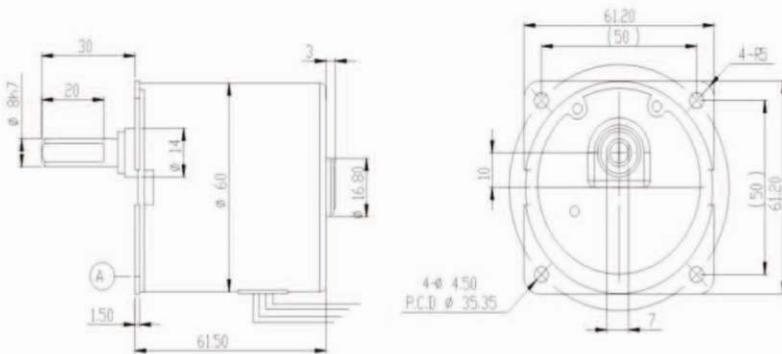
60TYD-B

我们公司已可以按客户的图纸、样品参数等要求定做产品。

Our company has ordered the products according to
customers' drawings, sample parameters and so on.



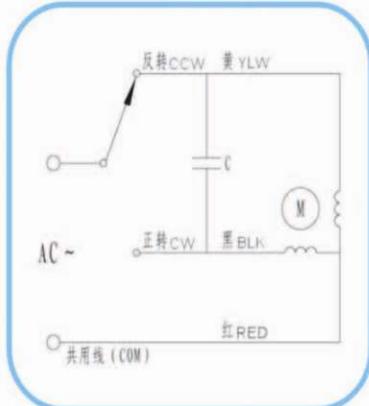
外形尺寸 APPERANCE SIZE



电机参数 Motor parameters

电压VOLTAGE (AC)	24/110/220						
频率FREQUENCY (Hz)	50/60						
输出转速OUTPUT SPEED (RPM)	2.5/3	5/6	10/12	15/18	20/24	25/30	30/36
输出力矩OUTPUT TORQUE (N.m)	10MAX	9	4.5	3	2.2	1.8	1.5
输入功率INPUT POWER (W)	18						
电流CURRENT (A)	2.0/0.44/0.22						
电容CAPACITOR (μ F)	90/6.0/1.5						
温升MAX TEMP. RISE (K)	≤90						
绝缘等级INSULATION	B						
绝缘耐压TEST VOLTAGE (V/MIN)	1500V/MIN						

电机接线图
Motor the wiring diagram



Fengquan Micro Motor

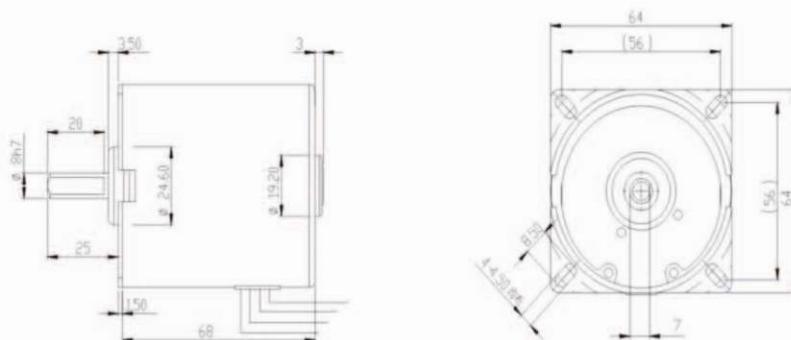
64TYD-A

我们公司已可以按客户的图纸、样品参数等要求定做产品。

Our company has ordered the products according to customers' drawings, sample parameters and so on.



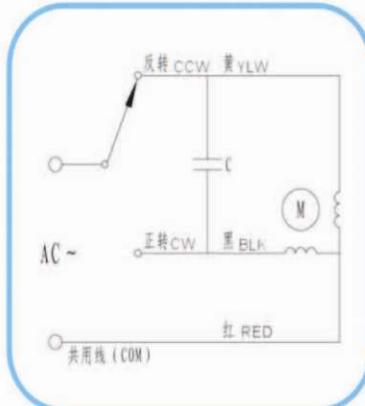
外形尺寸 APPERANCE SIZE



电机参数 Motor parameters

电压 VOLTAGE (AC)	24/110/220						
频率 FREQUENCY (Hz)	50/60						
输出转速 OUTPUT SPEED (RPM)	2.5/3	5/6	10/12	15/18	20/24	25/30	30/36
输出力矩 OUTPUT TORQUE (N·m)	20MAX	15	8	5	4	3	2.5
输入功率 INPUT POWER (W)	25						
电流 CURRENT (A)	1.0/0.22/0.11						
电容 CAPACITOR (μ F)	45/2.5/0.6						
温升 MAX TEMP RISE (K)	≤90						
绝缘等级 INSULATION	B						
绝缘耐压 TEST VOLTAGE (V/MIN)	1500V/MIN						

电机接线图
Motor the wiring diagram



Fengquan Micro Motor

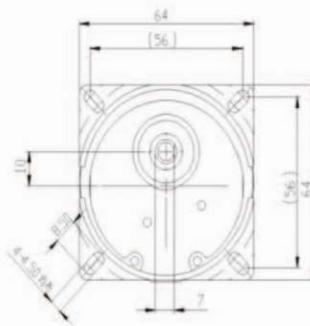
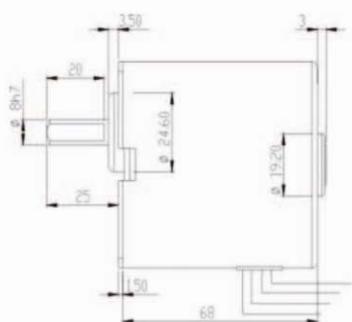
64TYD-B

我们公司已可以按客户的图纸、样品参数等要求定做产品。

Our company has ordered the products according to
customers' drawings, sample parameters and so on.



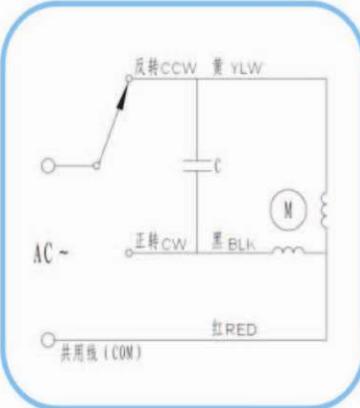
外形尺寸 APPERANCE SIZE



电机参数 Motor parameters

电压VOLTAGE (AC)	24/110/220						
频率FREQUENCY (Hz)	50/60						
输出转速OUTPUT SPEED (RPM)	2.5/3	5/6	10/12	15/18	20/24	25/30	30/36
输出力矩OUTPUT TORQUE (N.m)	20MAX	15	8	5	4	3	2.5
输入功率INPUT POWER (W)	25						
电流CURRENT (A)	1.0/0.22/0.11						
电容CAPACITOR (μ F)	45/2.5/0.6						
温升MAX. TEMP. RISE (K)	<90						
绝缘等级INSULATION	B						
绝缘耐压TEST VOLTAGE (V/MIN)	1500V/MIN						

电机接线图
Motor the wiring diagram



Fengquan Micro Motor

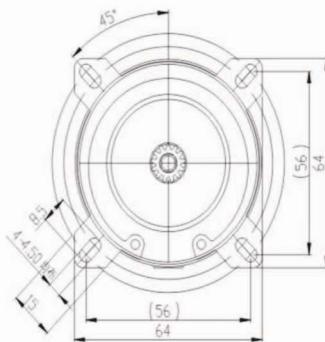
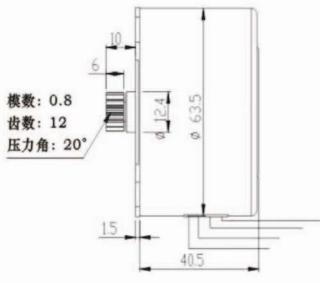
64TYD-C

我们公司已可以按客户的图纸、样品参数等要求定做产品。

Our company has ordered the products according to
customers' drawings, sample parameters and so on.



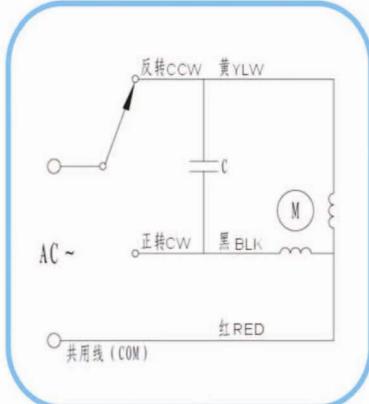
外形尺寸 APPERANCE SIZE



电机参数 Motor parameters

电压VOLTAGE (AC)	24/110/220
频率FREQUENCY (Hz)	50/60
输出转速OUTPUT SPEED (RPM)	375/450
输出力矩OUTPUT TORQUE (N·m)	20
输入功率INPUT POWER (W)	22
电流CURRENT (A)	1.0/0.22/0.11
电容CAPACITOR (μ F)	45/2.5/0.6
温升MAX. TEMP. RISE (K)	≤ 90
绝缘等级INSULATION	B
绝缘耐压TEST VOLTAGE (V/MIN)	1500V/MIN

电机接线图
Motor the wiring diagram



Fengquan Micro Motor

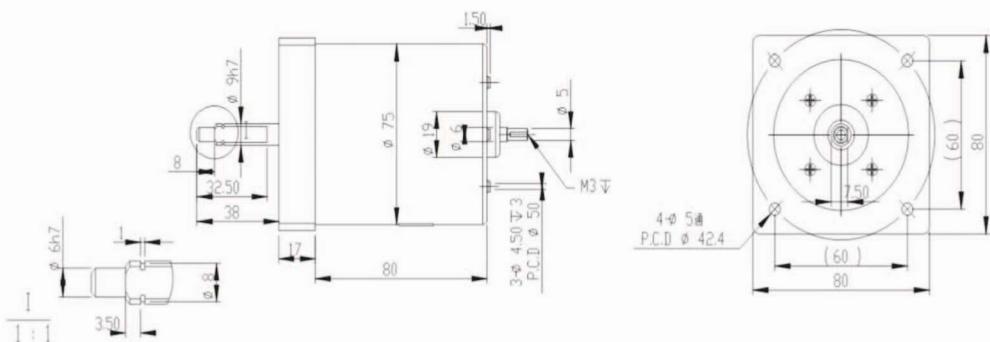
75TYD-A

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customers' drawings, sample parameters and so on.



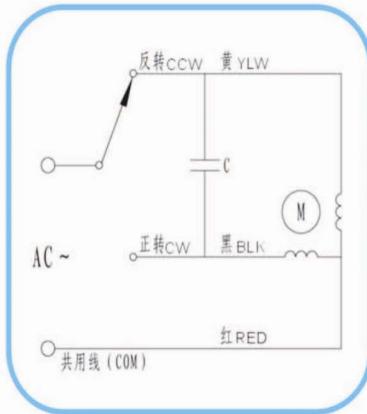
外形尺寸 APPERANCE SIZE



电机参数 Motor parameters

电压VOLTAGE (AC)	24/110/220						
频率FREQUENCY (Hz)	50/60						
输出转速OUTPUT SPEED (RPM)	20/24	30/36	40/48	50/60	60/72	80/90	100/120
输出力矩OUTPUT TORQUE (N. m)	5	3	2.2	2	1.6	1.3	1
输入功率INPUT POWER (W)	35						
电流CURRENT (A)	1.5/0.3/0.15						
电容CAPACITOR (μF)	60/4.0/1.0						
温升MAX. TEMP. RISE (K)	≤90						
绝缘等级INSULATION	B						
绝缘耐压TEST VOLTAGE (V/MIN)	1500V/MIN						

电机接线图 Motor the wiring diagram



Fengquan Micro Motor

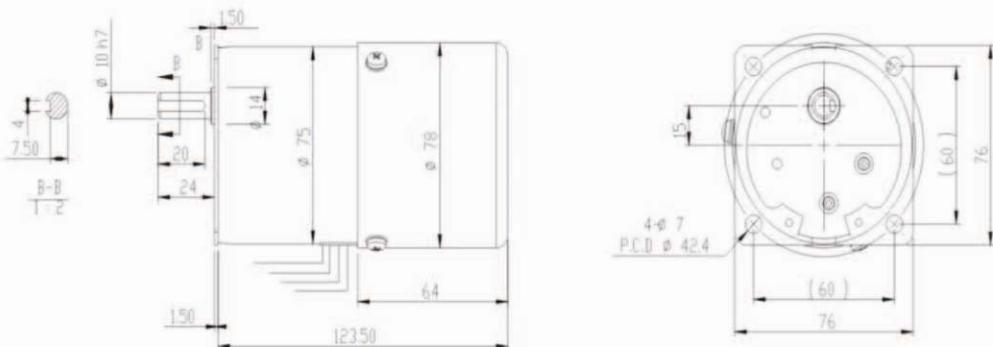
75TYD-B

我们公司已可以按客户的图纸、样品参数等要求定做产品。

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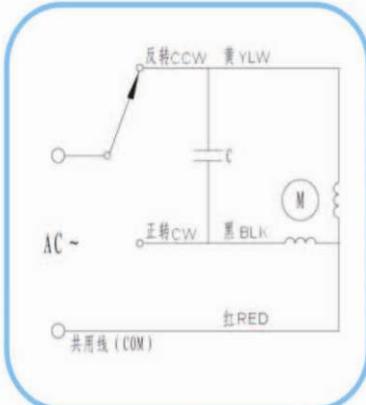
外形尺寸 APPERANCE SIZE



电机参数 Motor parameters

电压VOLTAGE (AC)	24/110/220						
频率FREQUENCY (Hz)	50/60						
输出转速OUTPUT SPEED (RPM)	2.5/3	5/6	10/12	15/18	20/24	25/30	30/36
输出力矩OUTPUT TORQUE (N·m)	30MAX	22	11	7.5	5.5	4.5	3.5
输入功率INPUT POWER (W)	33						
电流CURRENT (A)	1.5/0.3/0.15						
电容CAPACITOR (μ F)	60/4/1.0						
温升MAX TEMP. RISE (K)	≤ 90						
绝缘等级INSULATION	B						
绝缘耐压TEST VOLTAGE (V/MIN)	1500V/MIN						

电机接线图
Motor the wiring diagram



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