

● PRODUCT SERIES 产品系列

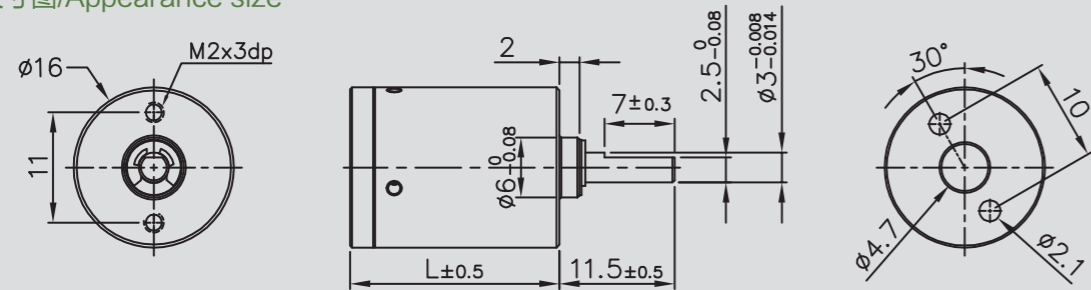
行星减速箱 Planetary Gearbox PG16



外壳材质 (Housing material): _____ Powder metallurgy
 背隙,无负荷时 (Backlash,at no-load): _____ $\leq 1.5^\circ$
 轴承型号 (Bearing at output): _____ Sleeve bearings
 径向间隙 (Radial play of shaft): _____ ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): _____ ≤ 0.2 mm
 齿轮箱适用于F-139,RF-030和RF-050马达。
 (The gear box can apply to F-139,RF-030 and RF-050 motors)

⚠ 马达瞬间允许扭矩12kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed, high gear ratio will cause gear motor torque more than 12kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.3	0.3	0.3
齿数 NO.of teeth	12	15	18
压力角 Pressure angle	20°	20°	20°
孔径 Hole diameter	ϕ 1.48	ϕ 1.48	ϕ 1.48

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
4, 4.75	4, 4 _{3/4}	1.0kgf·cm	3.0kgf·cm	90%	1	13.7	=
16, 19, 22.5	16, 19, 22 _{9/16}	1.5kgf·cm	4.5kgf·cm	81%	2	17.3	=
42.8, 64, 76	42 _{7/8} , 64, 76,	2.0kgf·cm	6.0kgf·cm	73%	3	20.9	=
90, 107	90 _{1/4} , 107 _{11/16}	2.0kgf·cm	6.0kgf·cm	73%	3	20.9	=
150, 256, 304	150 _{1/16} , 256, 304	3.0kgf·cm	9.0kgf·cm	65%	4	24.5	=
361, 428	361, 428 _{11/16}	3.0kgf·cm	9.0kgf·cm	65%	4	24.5	=
509	509 _{17/256}	3.0kgf·cm	9.0kgf·cm	65%	4	24.5	=
1024, 1216	1024, 1216	4.0kgf·cm	12.0kgf·cm	59%	5	28.1	=
1444, 1715	1444, 1714 _{3/4}	4.0kgf·cm	12.0kgf·cm	59%	5	28.1	=
2036, 2418	2036 _{17/64} , 2418 _{67/1024}	4.0kgf·cm	12.0kgf·cm	59%	5	28.1	=

○ 以上参数仅供参考，具体以实物为准。
 The above parameters are for reference only.

直流行星减速电机 Planetary gear DC motor PG16M050

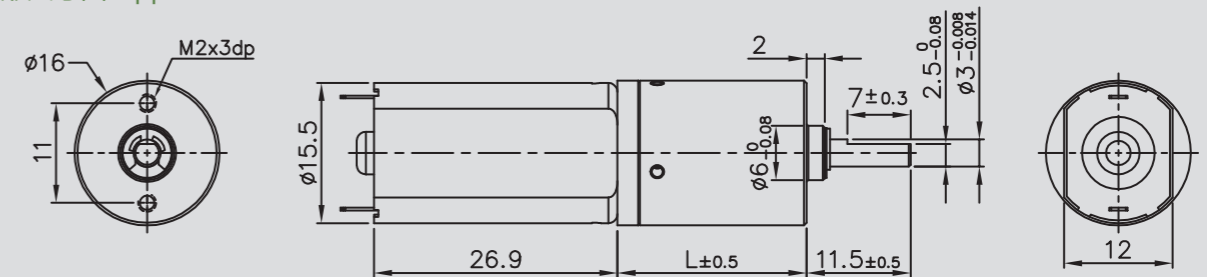
适用范围/Scope of application

光学仪器 | 调教照相机 | 指纹锁 | 自动节能器 | 水表IC卡 | 玩具礼品
 办公设备 | 家用电器 | 通信基站 等等。

Optical instruments | Tune camera | Fingerprint lock | Automatic energy saver | Water meter IC card | Toy gift | Office equipment | Household appliances | Telecommunication base station, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	4,4.75	12.3,16,19,22.5	42.8,64,76,90,107	150,256,304,361,428	712,1024,1216,1444,1715,2036
齿轮箱长度 Gearbox length "L" mm	13.7	17.3	20.9	24.5	28.1
额定扭矩 Max. Running torque	1.0kgf·cm	1.5kgf·cm	4.0kgf·cm	4.0kgf·cm	4.0kgf·cm
损坏扭矩 Gear breaking torque	3.0kgf·cm	4.5kgf·cm	12.0kgf·cm	12.0kgf·cm	12.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

可选马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (mA)
F-050129000	12	9000	≤ 45	7000	≤ 140	8	0.5	45	≤ 500
F-0501212000	12	12000	≤ 55	9600	≤ 180	10	0.96	50	≤ 750
F-0502413000	24	13000	≤ 45	10000	≤ 110	12	1.2	49	≤ 400

注：减速后的输出扭矩=马达扭矩X减速比X齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见50页
 本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 50
 Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
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● PRODUCT SERIES 产品系列

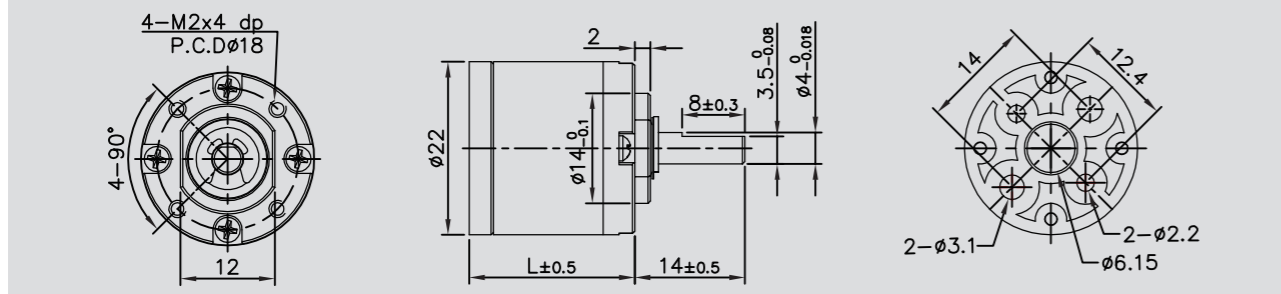
行星减速箱 Planetary Gearbox PG22



外壳材质 (Housing material): metal
 背隙,无负荷时 (Backlash,at no-load): $\leq 1.5^\circ$
 轴承型号 (Bearing at output): Sleeve bearings
 径向间隙 (Radial play of shaft): ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): ≤ 0.2 mm
 齿轮箱适用于RF-180和2238马达。
 (The gear box can apply to RF-180 and 2238 motors)

⚠ 马达瞬间允许扭矩12kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed, high gear ratio will cause gear motor torque more than 12kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.3	0.3
齿数 NO.of teeth	15	18
压力角 Pressure angle	20°	20°
孔径 Hole diameter	$\phi 1.98$	$\phi 1.98$

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.5, 4	3 _{1/2} , 4	1.0kgf·cm	3.0kgf·cm	90%	1	13.9	=
12.3, 16, 19	12 _{1/4} , 16, 19	2.0kgf·cm	6.0kgf·cm	81%	2	17.5	=
42.8, 64, 90	42 _{7/8} , 64, 90 _{1/4}	4.0kgf·cm	12.0kgf·cm	73%	3	21.1	=
150, 256	150 _{1/16} , 256	4.0kgf·cm	12.0kgf·cm	65%	4	24.7	=
304, 361, 428	304, 361, 428 _{1/16}	4.0kgf·cm	12.0kgf·cm	65%	4	24.7	=
813, 1024	813 _{51/64} , 1024	4.0kgf·cm	12.0kgf·cm	59%	5	28.3	=
1263, 1444	1263 _{1/2} , 1444	4.0kgf·cm	12.0kgf·cm	59%	5	28.3	=
1500, 2036	1500 _{13/32} , 2036 _{17/64}	4.0kgf·cm	12.0kgf·cm	59%	5	28.3	=

○ 以上参数仅供参考，具体以实物为准。
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直流行星减速电机 Planetary gear DC motor PG22M180

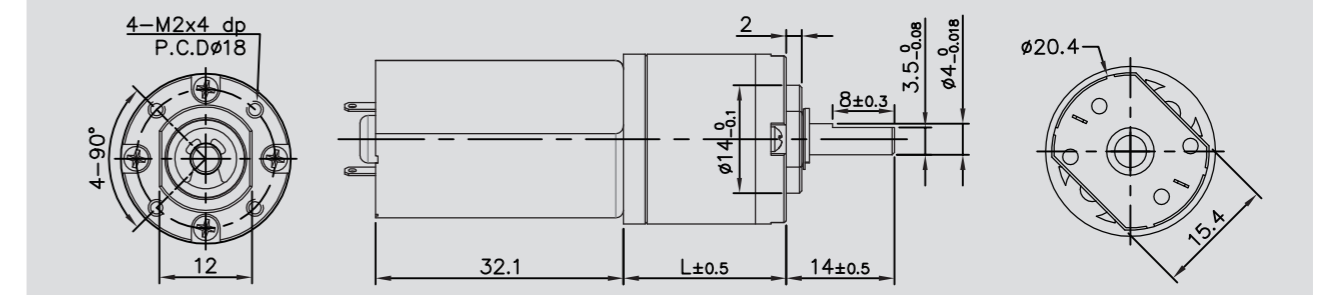
适用范围/Scope of application

光学仪器 | 调教照相机 | 指纹锁 | 美容卷发器 | 水表IC卡 | 玩具礼品
 办公设备 | 家用电器 | 自动执行器 等等。

Optical instruments | Tune camera | Fingerprint lock | Beauty curler | Water meter IC card | Toy gift | Office equipment | Household appliances | Automatic actuators, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.5,4	12.3,16,19	42.8,64,90	150,256,304,361,428	813,1024,1263,1444,1500,2036
齿轮箱长度 Gearbox length "L" mm	13.9	17.5	21.0	24.7	28.3
额定扭矩 Max. Running torque	1.0kgf·cm	2.0kgf·cm	4.0kgf·cm	4.0kgf·cm	4.0kgf·cm
损坏扭矩 Gear breaking torque	3.0kgf·cm	6.0kgf·cm	12.0kgf·cm	12.0kgf·cm	12.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (mA)
F-180129000	12	9000	≤ 58	7200	≤ 300	25.00	1.81	100	≤ 950
F-1801215000	12	15000	≤ 120	12494	≤ 600	35.28	4.49	210	≤ 3000
F-180249000	24	9000	≤ 25	7416	≤ 110	23.01	1.74	130	≤ 550
F-1802415000	24	15000	≤ 55	12660	≤ 290	34.54	4.45	220	≤ 1600
2238126000	12	6000	≤ 120	4800	≤ 350	49.2	2.42	248	≤ 1360
2238246400	24	6400	≤ 62	5388	≤ 186	49.6	2.74	317	≤ 950

注：减速后的输出扭矩=马达扭矩X减速比X齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见51、52页
 本公司可定做各种非标产品，如有需要请来电话咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 51、52
 Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
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● PRODUCT SERIES 产品系列

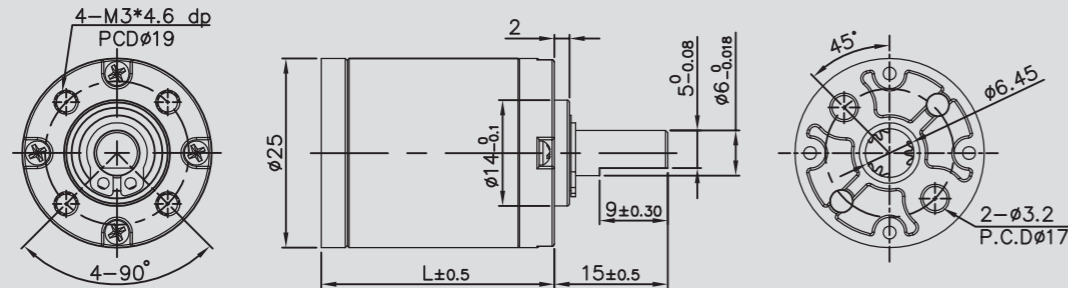
行星减速箱 Planetary Gearbox PG25



外壳材质 (Housing material): metal
 背隙,无负荷时 (Backlash,at no-load): $\leq 1.5^\circ$
 轴承型号 (Bearing at output): Sleeve bearings
 径向间隙 (Radial play of shaft): ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): ≤ 0.2 mm
 齿轮箱适用于RF-370和2238马达。
 (The gear box can apply to RF-370 and 2238 motors)

⚠ 马达瞬间允许扭矩30kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed, high gear ratio will cause gear motor torque more than 30kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.4	0.4		
齿数 NO.of teeth	12	15		
压力角 Pressure angle	20°	20°		
孔径 Hole diameter	$\phi 1.98$	$\phi 2.28$		

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.6, 4.25	33/5, 41/4	3.0kgf·cm	9.0kgf·cm	90%	1	18.3	=
13, 15.3, 18	1224/25, 153/10, 191/16	5.0kgf·cm	15.0kgf·cm	81%	2	25	=
36, 46.7	361/10, 4682/125	10.0kgf·cm	30.0kgf·cm	73%	3	30.8	=
55, 65, 76.8	552/25, 651/40, 7649/64	10.0kgf·cm	30.0kgf·cm	73%	3	30.8	=
114, 130	11419/60, 12924/25	10.0kgf·cm	30.0kgf·cm	65%	4	36.6	=
168, 198	167601/625, 19836/125	10.0kgf·cm	30.0kgf·cm	65%	4	36.6	=
234, 276, 326	2341/100, 2769/25, 3261/4	10.0kgf·cm	30.0kgf·cm	65%	4	36.6	=
467, 604, 713	4673/4, 60433/50, 7137/10	10.0kgf·cm	30.0kgf·cm	59%	5	42.4	=
842, 994	8427/10, 99422/25	10.0kgf·cm	30.0kgf·cm	59%	5	42.4	=
1174, 1386	11741/2, 13862/3	10.0kgf·cm	30.0kgf·cm	59%	5	42.4	=

○ 以上参数仅供参考，具体以实物为准。
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直流行星减速电机 Planetary gear DC motor PG25370

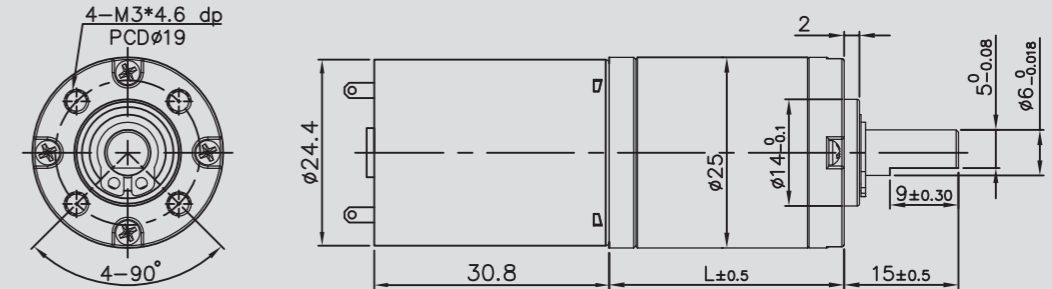
适用范围/Scope of application

蠕动泵 | 微型数控设备 | 自动取款机 | 出卡机 | 遥控窗帘 | 电动推杆
 油印机 | 家用电器 | 办公设备 | 自动执行器 等等。

Peristaltic pump | Micro CNC machine | Automated teller machine | Card machine | Remote control curtain | Electric push rod | Mimeograph | Household appliances | Office equipment | Automatic actuators, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.6,4.25	13,15.3,18	36,46.7,55,65,76.8	114,130,168,198,234,276,198	467,604,713,842,994,1174,1386
齿轮箱长度 Gearbox length "L" mm	18.3	25.0	30.8	36.6	42.2
额定扭矩 Max.Running torque	3.0kgf·cm	5.0kgf·cm	10.0kgf·cm	10.0kgf·cm	10.0kgf·cm
损坏扭矩 Gear breaking torque	9.0kgf·cm	15.0kgf·cm	30.0kgf·cm	30.0kgf·cm	30.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (mA)
RF-370123000	12	3000	≤ 15	2200	≤ 55	15	0.33	60	≤ 280
RF-370126000	12	6000	≤ 35	5264	≤ 180	30	1.57	240	≤ 1260
RF-370246000	24	6000	≤ 25	5295	≤ 110	30	1.68	265	≤ 750

注：减速后的输出扭矩=马达扭矩X减速比X齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见53页
 本公司可定做各种非标产品，如有需要请来电话咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 53
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○ 以上参数仅供参考，具体以实物为准。
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● PRODUCT SERIES 产品系列

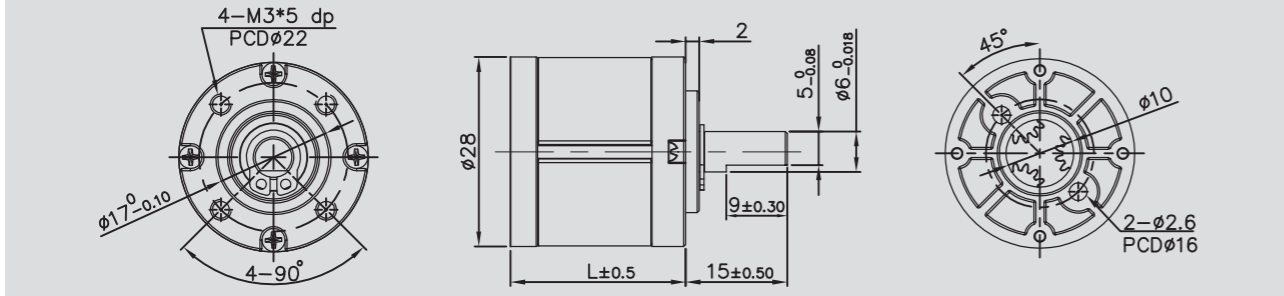
行星减速箱 Planetary Gearbox PG28



外壳材质 (Housing material): metal
 背隙,无负荷时 (Backlash,at no-load): $\leq 1.5^\circ$
 轴承型号 (Bearing at output): Ball bearings
 径向间隙 (Radial play of shaft): ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): ≤ 0.2 mm
 齿轮箱适用于BL28,RS-385和RS-395马达。
 (The gear box can apply to BL28,RS385 and RS-395 motors)

△ 马达瞬间允许扭矩75kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed, high gear ratio will cause gear motor torque more than 75kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.48	0.48	0.48
齿数 NO.of teeth	11	17	17
压力角 Pressure angle	20°	20°	20°
孔径 Hole diameter	$\phi 1.98$	$\phi 2.28$	$\phi 3.14$

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.3, 4.6	3.353, 4.636	10.0kgf·cm	30.0kgf·cm	90%	1	20.2	=
11.2, 15.5, 21.5	12.242, 15.545, 21.496	20.0kgf·cm	60.0kgf·cm	81%	2	25.9	=
37.7, 52.1	37.694, 52.123	50.0kgf·cm	150.0kgf·cm	73%	3	31.7	=
72, 100	72.074, 99.663	50.0kgf·cm	150.0kgf·cm	73%	3	31.7	=
126, 174, 241	126.387, 174.765, 241.661	50.0kgf·cm	150.0kgf·cm	65%	4	37.5	=
334, 462	334.163, 462.072	50.0kgf·cm	150.0kgf·cm	65%	4	37.5	=
423, 585	423.769, 585.978	50.0kgf·cm	150.0kgf·cm	59%	5	43.3	=
810, 1120	810.276, 1120.429	50.0kgf·cm	150.0kgf·cm	59%	5	43.3	=
1549, 2142	1549.301, 2142.335	50.0kgf·cm	150.0kgf·cm	59%	5	43.3	=

○ 以上参数仅做参考，具体以实物为准。
 The above parameters are for reference only.

直流行星减速电机 Planetary gear DC motor PG28M395

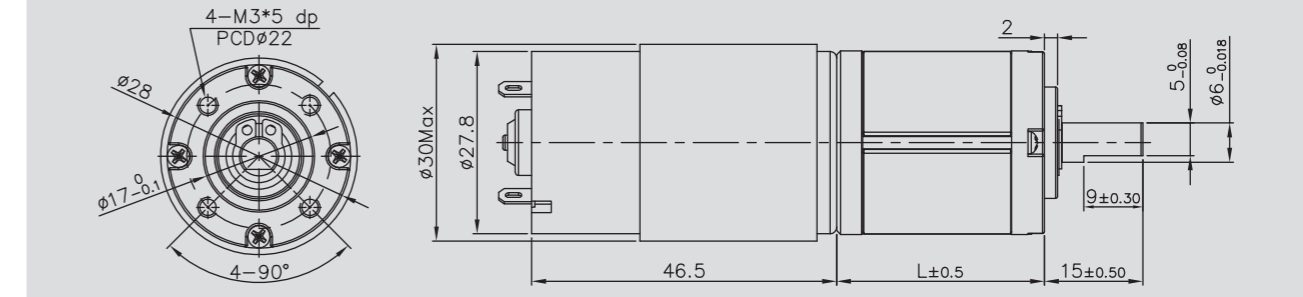


适用范围/Scope of application

蠕动泵 | 微型数控设备 | 自动取款机 | 出卡机 | 遥控窗帘 | 太阳能油印机 | 家用电器 | 办公设备 | 自动执行器 等等。

Peristaltic pump | Miniature CNC equipment | Automated teller machine | Card dispenser | Remote control curtain | Solar energy | Mimeograph | Household appliances | Office equipment | Automatic actuators, etc.

外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.3,4.6	11.2,15.5,21.5	37.7,52.1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 Gearbox length "L" mm	20.2	25.9	31.7	37.5	43.3
额定扭矩 Max.Running torque	10.0kgf·cm	20.0kgf·cm	50.0kgf·cm	50.0kgf·cm	50.0kgf·cm
损坏扭矩 Gear breaking torque	30.0kgf·cm	60.0kgf·cm	150.0kgf·cm	150.0kgf·cm	150.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
RS-395124500	12	4500	≤ 110	3800	≤ 470	95	3.79	643	≤ 2.6
RS-395126000	12	6000	≤ 180	5370	≤ 770	110	6.54	847	≤ 4.6
RS-395129000	12	9000	≤ 300	7800	≤ 1100	112	8.93	850	≤ 6.9
RS-395244500	24	4500	≤ 65	4000	≤ 260	104	4.27	722	≤ 1.52
RS-395246000	24	6000	≤ 110	5200	≤ 490	140	7.73	973	≤ 2.72
RS-395249000	24	9000	≤ 180	7800	≤ 600	127	10.2	972	≤ 3.93

注：减速后的输出扭矩=马达扭矩X减速比X齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见54、62页
 本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 54、62
 Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅做参考，具体以实物为准。
 The above parameters are for reference only.

● PRODUCT SERIES 产品系列

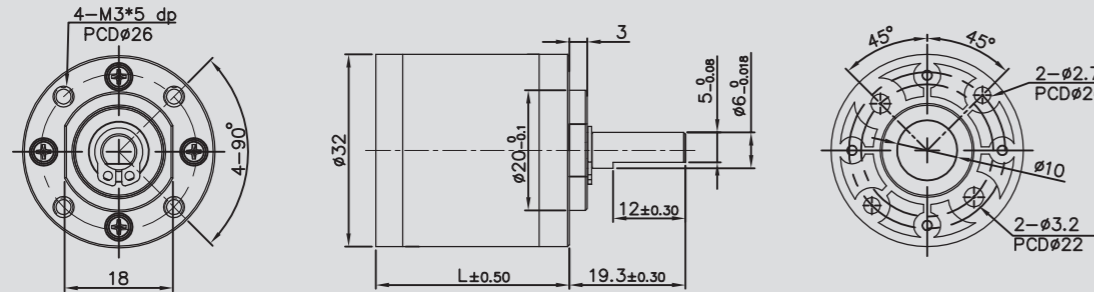
行星减速箱 Planetary Gearbox PG32



外壳材质 (Housing material): metal
 背隙,无负荷时 (Backlash,at no-load): $\leq 1.5^\circ$
 轴承型号 (Bearing at output): Ball bearings
 径向间隙 (Radial play of shaft): ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): ≤ 0.2 mm
 齿轮箱适用于ZY31,BL32和RS-528马达。
 (The gear box can apply to ZY31,BL32and RS-528 motors)

⚠ 马达瞬间允许扭矩75kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed , high gear ratio will cause gear motor torque more than 75kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.48	0.48	0.48
齿数 NO.of teeth	11	17	17
压力角 Pressure angle	20°	20°	20°
孔径 Hole diameter	ϕ 1.98	ϕ 2.28	ϕ 3.14

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.3, 4.6	3.353, 4.636	10.0kgf·cm	20.0kgf·cm	90%	1	20.7	=
11.2, 15.5, 21.5	12.242, 15.545, 21.496	20.0kgf·cm	60.0kgf·cm	81%	2	26.4	=
37.7, 52.1	37.694, 52.123	50.0kgf·cm	150.0kgf·cm	73%	3	32.2	=
72, 100	72.074, 99.663	50.0kgf·cm	150.0kgf·cm	73%	3	32.2	=
126, 174, 241	126.387, 174.765, 241.661	50.0kgf·cm	150.0kgf·cm	65%	4	38	=
334, 462	334.163, 462.072	50.0kgf·cm	150.0kgf·cm	65%	4	38	=
423, 585	423.769, 585.978	50.0kgf·cm	150.0kgf·cm	59%	5	43.8	=
810, 1120	810.276, 1120.429	50.0kgf·cm	150.0kgf·cm	59%	5	43.8	=
1549, 2142	1549.301, 2142.335	50.0kgf·cm	150.0kgf·cm	59%	5	43.8	=

○ 以上参数仅供参考，具体以实物为准。
 The above parameters are for reference only.

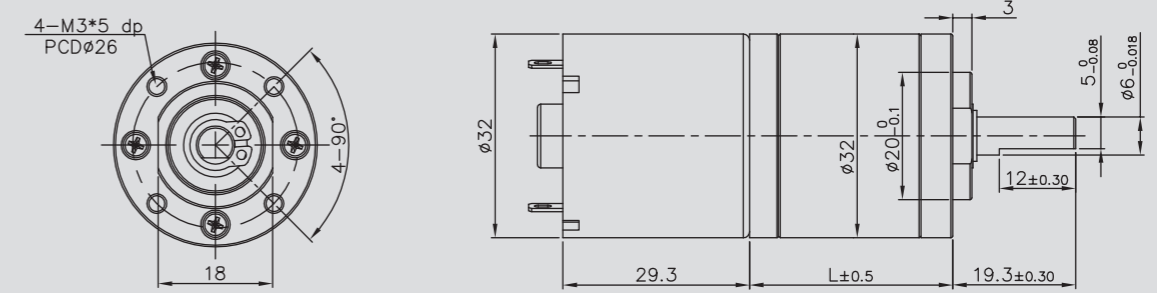
直流行星减速电机 Planetary gear DC motor PG32GR

适用范围/Scope of application

机器人 | 微型数控设备 | 自动取款机 | 柔巾机 | 遥控窗帘 | 舞台灯光
 电动广告 | 家用电器 | 电视支架 | 自动执行器 | 可调价望远镜 等等
 Robot | Micro CNC Equipment | Automated Teller Machine | Soft
 Tissue Machine | Remote Control Curtains | Stage Lighting | Electric
 Advertising | Home Appliances | TV Stand | Auto Actuator |
 Adjustable Price Telescope, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.3,4.6	11.2,15.5,21.5	37.7,52.1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 Gearbox length "L" mm	20.7	26.4	32.2	38	43.8
额定扭矩 Max.Running torque	10.0kgf·cm	20.0kgf·cm	50.0kgf·cm	50.0kgf·cm	50.0kgf·cm
损坏扭矩 Gear breaking torque	30.0kgf·cm	60.0kgf·cm	150.0kgf·cm	150.0kgf·cm	150.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
GR123400	12	3400	≤ 70	2950	≤ 140	30	0.9	242	≤ 0.76
GR127000	12	7000	≤ 140	5650	≤ 614	79.7	4.6	472	≤ 3.03
GR124500	12	4500	≤ 100	3600	≤ 260	48.9	1.8	261	≤ 1.1
GR244500	24	4500	≤ 60	3670	≤ 131	47.6	1.8	281	≤ 0.59
GR247000	24	7000	≤ 85	6000	≤ 280	70.6	4.4	455	≤ 1.54

注：减速后的输出扭矩=马达扭矩X减速比X齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见55、58、63页
 本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 48、58、63
 Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
 The above parameters are for reference only.

Twirl Motor

直流行星减速电机 Planetary gear DC motor PG32395

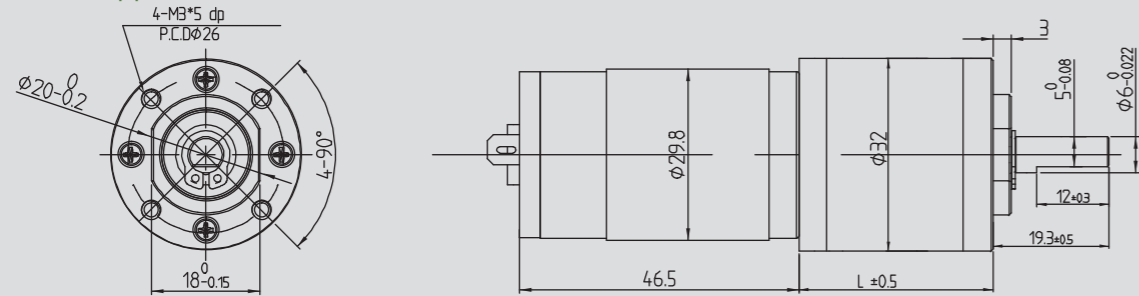
适用范围/Scope of application

机器人 | 微型数控设备 | 自动取款机 | 柔巾机 | 遥控窗帘 | 舞台灯光
电动广告 | 家用电器 | 电视支架 | 自动执行器 | 可调价望远镜 等等

Robot | Micro CNC Equipment | Automated Teller Machine | Soft
Tissue Machine | Remote Control Curtains | Stage Lighting | Electric
Advertising | Home Appliances | TV Stand | Auto Actuator |
Adjustable Price Telescope, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.3,4.6	11.2,15.5,21.5	37.7,52.1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 Gearbox length "L" mm	20.7	26.4	32.2	38	43.8
额定扭矩 Max. Running torque	10.0kgf · cm	20.0kgf · cm	50.0kgf · cm	50.0kgf · cm	50.0kgf · cm
损坏扭矩 Gear breaking torque	30.0kgf · cm	60.0kgf · cm	150.0kgf · cm	150.0kgf · cm	150.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
RS-395124500	12	4500	≤110	3800	≤470	95	3.79	643	≤2.6
RS-395126000	12	6000	≤180	5370	≤770	110	6.54	847	≤4.6
RS-395129000	12	9000	≤300	7800	≤1100	112	8.93	850	≤6.9
RS-395244500	24	4500	≤65	4000	≤260	104	4.27	722	≤1.52
RS-395246000	24	6000	≤110	5200	≤490	140	7.73	973	≤2.72
RS-395249000	24	9000	≤180	7800	≤600	127	10.2	972	≤3.93

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见55、58、63页
本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 48、58、63
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
The above parameters are for reference only.

Twirl Motor

直流行星减速电机 Planetary gear DC motor PG32555

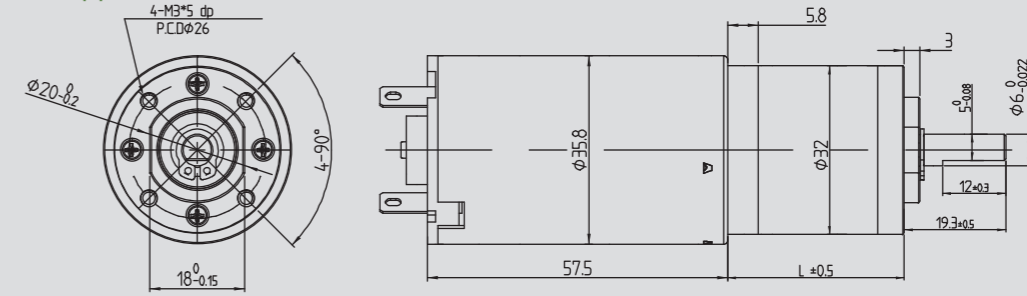
适用范围/Scope of application

机器人 | 微型数控设备 | 自动取款机 | 柔巾机 | 遥控窗帘 | 舞台灯光
电动广告 | 家用电器 | 电视支架 | 自动执行器 | 可调价望远镜 等等

Robot | Micro CNC Equipment | Automated Teller Machine | Soft
Tissue Machine | Remote Control Curtains | Stage Lighting | Electric
Advertising | Home Appliances | TV Stand | Auto Actuator |
Adjustable Price Telescope, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.3,4.6	11.2,15.5,21.5	37.7,52.1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 Gearbox length "L" mm	21.7	27.4	33.2	39	44.8
额定扭矩 Max. Running torque	10.0kgf · cm	20.0kgf · cm	50.0kgf · cm	50.0kgf · cm	50.0kgf · cm
损坏扭矩 Gear breaking torque	30.0kgf · cm	60.0kgf · cm	150.0kgf · cm	150.0kgf · cm	150.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
RS-555123000	12	3000	≤140	2500	≤540	179	4.51	1210	≤3.1
RS-555124500	12	4500	≤200	3950	≤850	183	7.42	1508	≤5.9
RS-555126000	12	6000	≤320	5240	≤1340	215	11.5	1722	≤9.3
RS-555243500	24	3500	≤115	2920	≤450	246	7.5	1762	≤2.7
RS-555244500	24	4500	≤140	3980	≤440	189	7.8	1713	≤3.4
RS-555246000	24	6000	≤140	5300	≤850	284	15.7	2360	≤6.2

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见55、58、63页
本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 48、58、63
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
The above parameters are for reference only.

● PRODUCT SERIES 产品系列

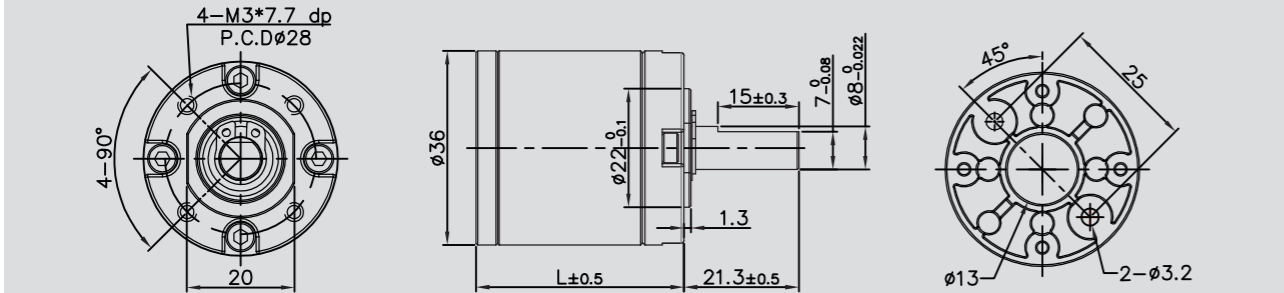
行星减速箱 Planetary Gearbox PG36



外壳材质 (Housing material): metal
 背隙,无负荷时 (Backlash,at no-load): $\leq 1.5^\circ$
 轴承型号 (Bearing at output): Ball bearings
 径向间隙 (Radial play of shaft): ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): ≤ 0.2 mm
 齿轮箱适用于RS-528, BL36, RS-555和ZY36马达。
 (The gear box can apply to RS-528,BL36,RS-555 and ZY36 motors)

⚠ 马达瞬间允许扭矩150kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed , high gear ratio will cause gear motor torque more than 150kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.48	0.48	0.48
齿数 NO.of teeth	11	17	17
压力角 Pressure angle	20°	20°	20°
孔径 Hole diameter	ϕ 1.98	ϕ 2.28	ϕ 3.14

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.7, 5.2	312/17, 52/11	20.0kgf·cm	60.0kgf·cm	90%	1	25.1	=
13.7, 19.2, 26.9	133/4, 1938/187, 26103/121	50.0kgf·cm	150.0kgf·cm	81%	2	32.3	=
50.9, 71.2	504397/4913, 71524/3179	100.0kgf·cm	300.0kgf·cm	73%	3	38.5	=
99.5, 139	991044/2057, 139184/1331	100.0kgf·cm	300.0kgf·cm	73%	3	38.5	=
188, 264, 369	188.611, 263.729, 369.763	100.0kgf·cm	300.0kgf·cm	65%	4	44.7	=
516, 721	515.630, 720.989	100.0kgf·cm	300.0kgf·cm	65%	4	44.7	=
699, 997	698.969, 977.347	100.0kgf·cm	300.0kgf·cm	59%	5	50.9	=
1367, 1911	1366.593, 1910.864	100.0kgf·cm	300.0kgf·cm	59%	5	50.9	=
2672, 3736	2671.901, 3736.034	100.0kgf·cm	300.0kgf·cm	59%	5	50.9	=

○ 以上参数仅做参考，具体以实物为准。
 The above parameters are for reference only.

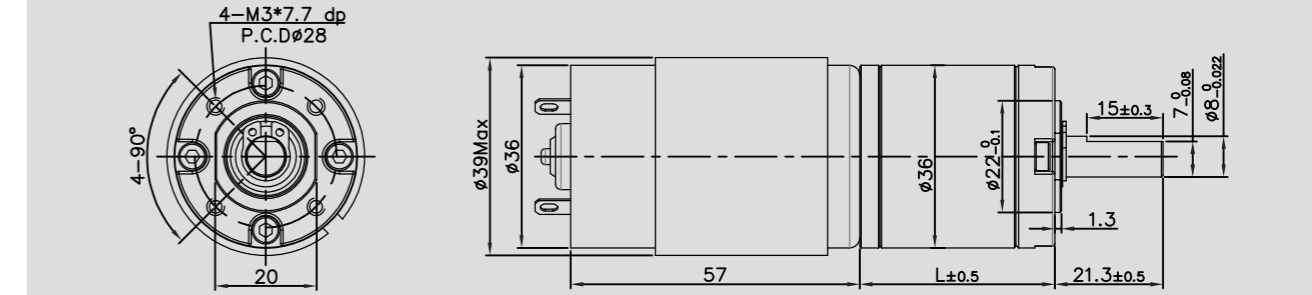
直流行星减速电机 Planetary gear DC motor PG36555

适用范围/Scope of application

遥控窗帘 | 监控云台 | 自动售货机 | 验钞机 | 硬币退币机 | 点钞机
 柔巾机 | 自动门 | 覆膜机 | 自动电视架 | 办公设备 | 家用电器 等等
 Remote Control Curtains | Monitor PTZ | Vending Machine | Money
 Detector | Coin Refund | Order money | Soft Tissue Machine |
 Automatic door | Laminating machine | Automatic TV stand | Office
 equipment | Household appliances etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7,5.2	13.7,19.2,26.9	50.9,71.2,99.5,139	188,264,369,516,721	699,977,1367,1911,2672,3736
齿轮箱长度 Gearbox length "L" mm	25.1	32.3	38.5	44.7	50.9
额定扭矩 Max.Running torque	20.0kgf·cm	50.0kgf·cm	100.0kgf·cm	100.0kgf·cm	100.0kgf·cm
损坏扭矩 Gear breaking torque	60.0kgf·cm	150.0kgf·cm	300.0kgf·cm	300.0kgf·cm	300.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
RS-555123000	12	3000	≤ 140	2500	≤ 540	179	4.51	1210	≤ 3.1
RS-555124500	12	4500	≤ 200	3950	≤ 850	183	7.42	1508	≤ 5.9
RS-555126000	12	6000	≤ 320	5240	≤ 1340	215	11.5	1722	≤ 9.3
RS-555243500	24	3500	≤ 115	2920	≤ 450	246	7.5	1762	≤ 2.7
RS-555244500	24	4500	≤ 140	3980	≤ 440	189	7.8	1713	≤ 3.4
RS-555246000	24	6000	≤ 140	5300	≤ 850	284	15.7	2360	≤ 6.2

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见55、56页
 本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 55、56
 Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅做参考，具体以实物为准。
 The above parameters are for reference only.

Twirl Motor

直流行星减速电机 Planetary gear DC motor PG36GR

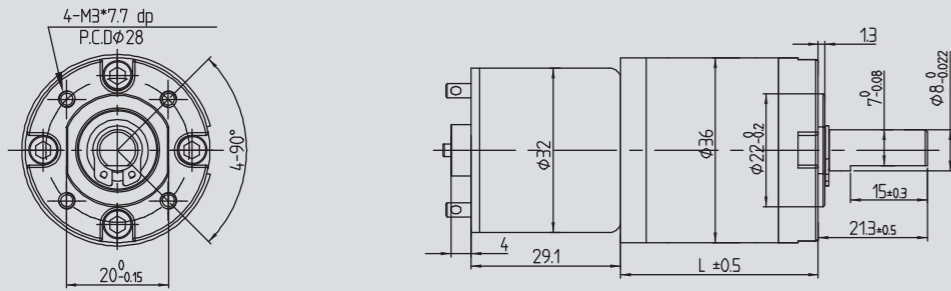
适用范围/Scope of application

遥控窗帘 | 监控云台 | 自动售货机 | 验钞机 | 硬币退币机 | 点钞机
柔巾机 | 自动门 | 覆膜机 | 自动电视架 | 办公设备 | 家用电器 等等

Remote Control Curtains | Monitor PTZ | Vending Machine | Money
Detector | Coin Refund | Order money | Soft Tissue Machine |
Automatic door | Laminating machine | Automatic TV stand | Office
equipment | Household appliances etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7,5.2	13.7,19.2,26.9	50.9,71.2,99.5,139	188,264,369,516,721	699,977,1367,1911,2672,3736
齿轮箱长度 Gearbox length "L" mm	25.1	32.3	38.5	44.7	50.9
额定扭矩 Max. Running torque	20.0kgf · cm	50.0kgf · cm	100.0kgf · cm	100.0kgf · cm	100.0kgf · cm
损坏扭矩 Gear breaking torque	60.0kgf · cm	150.0kgf · cm	300.0kgf · cm	300.0kgf · cm	300.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
GR123400	12	3400	≤70	2950	≤140	30	0.9	242	≤0.76
GR127000	12	7000	≤140	5650	≤614	79.7	4.6	472	≤3.03
GR124500	12	4500	≤100	3600	≤260	48.9	1.8	261	≤1.1
GR244500	24	4500	≤60	3670	≤131	47.6	1.8	281	≤0.59
GR247000	24	7000	≤85	6000	≤280	70.6	4.4	455	≤1.54

注: 减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率; 输出转速=马达转速/减速比; 马达曲线图详见55、56页
本公司可定做各种非标产品, 如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 55、56
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考, 具体以实物为准。
The above parameters are for reference only.

Twirl Motor

● PRODUCT SERIES 产品系列

行星减速箱 Planetary Gearbox PG42

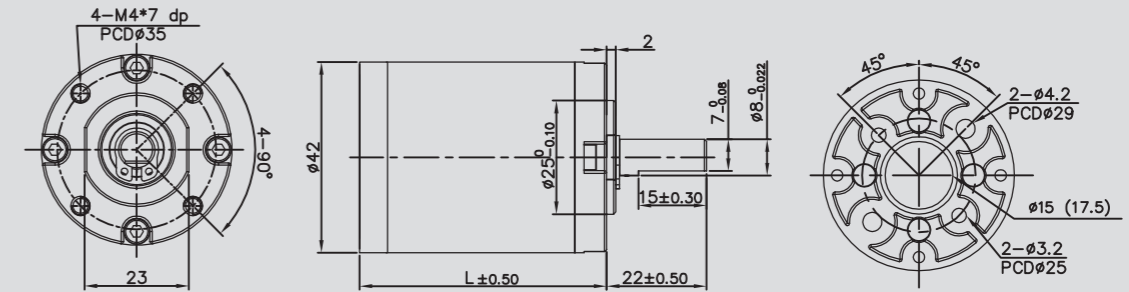


外壳材质 (Housing material): metal
背隙,无负荷时 (Backlash,at no-load): ≤1.5°
轴承型号 (Bearing at output): Ball bearings
径向间隙 (Radial play of shaft): ≤0.1 mm
轴向间隙 (Thrust play shaft): ≤0.2 mm
齿轮箱适用于ZY40和RS-775马达。
(The gear box can apply to ZY40 and RS-775 motors)

△ 马达瞬间允许扭矩360kgf · cm。当使用低转速、高速比时, 请选用低功率马达, 请做好保护措施。

(When the motors using at low speed , high gear ratio will cause gear motor torque more than360kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.6	0.6	0.6
齿数 NO.of teeth	17	17	21
压力角 Pressure angle	20°	20°	20°
孔径 Hole diameter	φ 3.19(2.9)	φ 5	φ 5

使用温度范围/Operating temperature range: -30℃~+85℃
使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.7	312/17	50.0kgf · cm	150.0kgf · cm	90%	1	31.8	=
10.2, 13.7, 19.2	10.179, 13212/289, 1938/187	100.0kgf · cm	300.0kgf · cm	81%	2	43.1	=
32.5, 50.9	32.476, 504397/4913	200.0kgf · cm	600.0kgf · cm	73%	3	54.4	=
71.2, 99.5	71524/3179, 991044/2057	200.0kgf · cm	600.0kgf · cm	73%	3	54.4	=
139, 188, 264	139.796, 188.611, 263.729	200.0kgf · cm	600.0kgf · cm	65%	4	65.7	=
396, 516	368.763, 515.630	200.0kgf · cm	600.0kgf · cm	65%	4	65.7	=
699, 997	698.969, 977.347	200.0kgf · cm	600.0kgf · cm	59%	5	77	=
1367, 1911	1366.593, 1910.864	200.0kgf · cm	600.0kgf · cm	59%	5	77	=
2672	2671.901	200.0kgf · cm	600.0kgf · cm	59%	5	77	=

○ 以上参数仅供参考, 具体以实物为准。
The above parameters are for reference only.

Twirl Motor

直流行星减速电机 Planetary gear DC motor PG42775

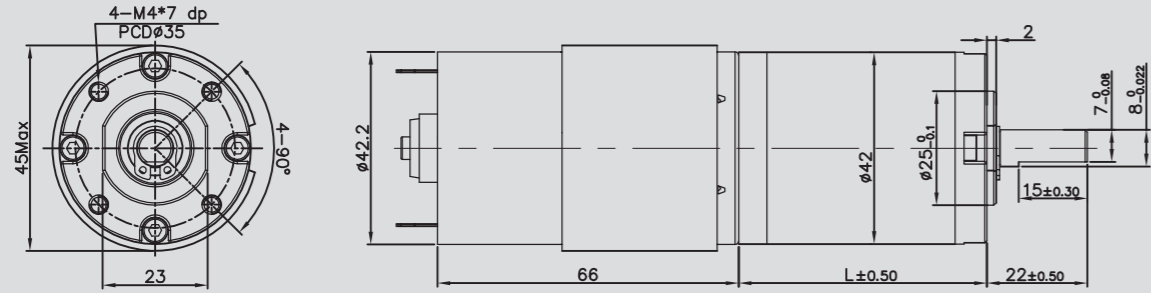
适用范围/Scope of application

监控云台 | 烘烤架 | 烤炉 | 清洗机 | 垃圾处理机 | 捆钞机 | 稳压器
割草机 | 游戏机 | 灌流泵 | 办公设备 | 家用电器 等等

Monitoring PTZ | Baking rack | Oven | Washing machine | Garbage
disposer | Binding machine | Regulator | Lawn mower | game
machine | perfusion pump | office equipment | home appliances, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7	10.2,13.7,19.2	32.5,50.9,71.2,99.5	139,188,264,369,516	699,977,1367,1911,2672
齿轮箱长度 Gearbox length "L" mm	31.8	43.1	54.4	65.7	77
额定扭矩 Max. Running torque	50.0kgf · cm	100.0kgf · cm	200.0kgf · cm	200.0kgf · cm	200.0kgf · cm
损坏扭矩 Gear breaking torque	100.0kgf · cm	300.0kgf · cm	600.0kgf · cm	600.0kgf · cm	600.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
RS-775123000	12	3000	≤420	2430	≤1300	408	10.4	2484	≤6.7
RS-775124500	12	4500	≤750	3710	≤2100	476	17.6	2714	≤10.4
RS-775126000	12	6000	≤1400	5000	≤3500	478	25.5	3129	≤18.5
RS-775243000	24	3000	≤230	2590	≤700	405	11.5	2686	≤3.9
RS-775244500	24	4500	≤250	3850	≤1250	538	21.1	4134	≤8.3
RS-775246000	24	6000	≤600	5100	≤1800	574	30.8	4565	≤12.1
BL42126000	12	6000	≤620	5133	≤2785	469	24.7	3396	≤17.1
BL42246000	24	6000	≤340	5319	≤1968	669	36.5	5496	≤14.1

注: 减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率; 输出转速=马达转速/减速比; 马达曲线图详见57、65页
本公司可定做各种非标产品, 如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 57、65
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考, 具体以实物为准。
The above parameters are for reference only.

Twirl Motor

● PRODUCT SERIES 产品系列

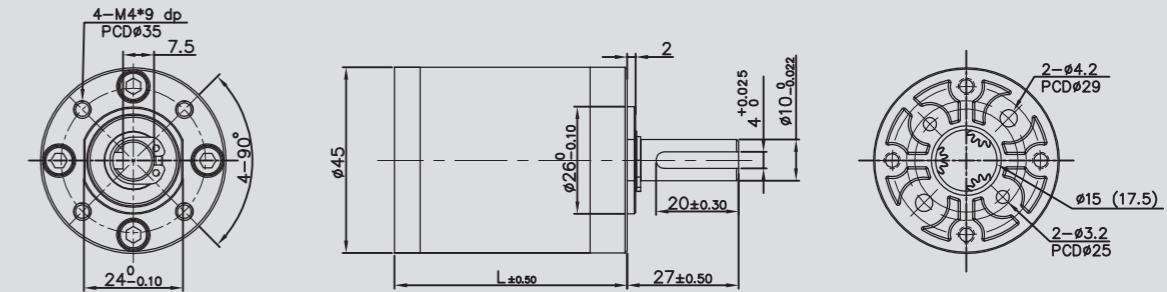
行星减速箱 Planetary Gearbox PG45



外壳材质 (Housing material): metal
背隙,无负荷时 (Backlash,at no-load): ≤1.5°
轴承型号 (Bearing at output): Ball bearings
径向间隙 (Radial play of shaft): ≤0.1 mm
轴向间隙 (Thrust play shaft): ≤0.2 mm
齿轮箱适用于ZY45和RS-775马达。
(The gear box can apply to ZY45 and RS-775 motors)

△ 马达瞬间允许扭矩360kgf · cm。当使用低转速、高速比时, 请选用低功率马达, 请做好保护措施。
(When the motors using at low speed, high gear ratio will cause gear motor torque more than360kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.6	0.6	0.6
齿数 NO.of teeth	17	17	21
压力角 Pressure angle	20°	20°	20°
孔径 Hole diameter	φ 3.19(2.9)	φ 5	φ 5

使用温度范围/Operating temperature range: -30℃~+85℃
使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.7	312/17	50.0kgf · cm	100.0kgf · cm	90%	1	33.6	=
10.2, 13.7, 19.2	10.179, 13212/289, 1938/187	100.0kgf · cm	300.0kgf · cm	81%	2	44.9	=
32.5, 50.9	32.476, 504397/4913	200.0kgf · cm	600.0kgf · cm	73%	3	56.2	=
71.2, 99.5	71524/3179, 991044/2057	200.0kgf · cm	600.0kgf · cm	73%	3	56.2	=
139, 188, 264	139.796, 188.611, 263.729	200.0kgf · cm	600.0kgf · cm	65%	4	67.5	=
396, 516	368.763, 515.630	200.0kgf · cm	600.0kgf · cm	65%	4	67.5	=
699, 997	698.969, 977.347	200.0kgf · cm	600.0kgf · cm	59%	5	78.8	=
1367, 1911	1366.593, 1910.864	200.0kgf · cm	600.0kgf · cm	59%	5	78.8	=
2672	2671.901	200.0kgf · cm	600.0kgf · cm	59%	5	78.8	=

○ 以上参数仅供参考, 具体以实物为准。
The above parameters are for reference only.

Twirl Motor

直流行星减速电机 Planetary gear DC motor PG45775

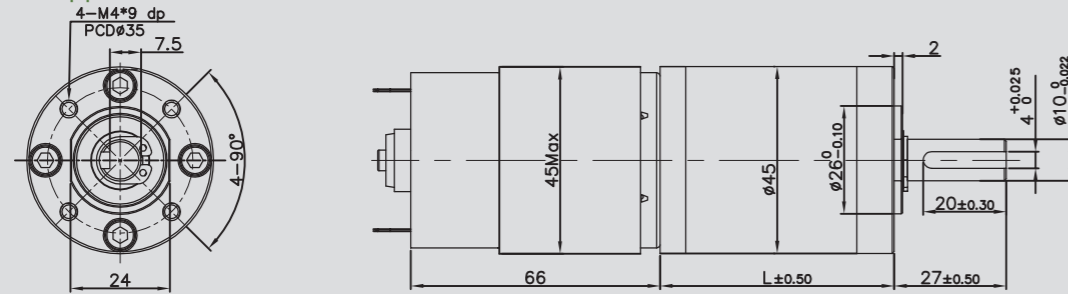
适用范围/Scope of application

监控云台 | 烘烤架 | 烤炉 | 清洗机 | 广告牌 | 捆钞机 | 稳压器
自动开门器 | 游戏机 | 灌流泵 | 办公设备 | 呼吸机电机 等等

Monitoring PTZ | Baking rack | Oven | Washing machine | Billboard
| Binding machine | Regulator | Automatic door opener | Game
machine | Irrigation pump | Office equipment | Electronic components
for medical Ventilato, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7	10.2,13.7,19.2	32.5,50.9,71.2,99.5	139,188,264,369,516	699,977,1367,1911,2672
齿轮箱长度 Gearbox length "L" mm	33.6	44.9	56.2	67.5	78.8
额定扭矩 Max. Running torque	50.0kgf · cm	100.0kgf · cm	200.0kgf · cm	200.0kgf · cm	200.0kgf · cm
损坏扭矩 Gear breaking torque	100.0kgf · cm	300.0kgf · cm	600.0kgf · cm	600.0kgf · cm	600.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
RS-775123000	12	3000	≤420	2430	≤1300	408	10.4	2484	≤6.7
RS-775124500	12	4500	≤750	3710	≤2100	476	17.6	2714	≤10.4
RS-775126000	12	6000	≤1400	5000	≤3500	478	25.5	3129	≤18.5
RS-775243000	24	3000	≤230	2590	≤700	405	11.5	2686	≤3.9
RS-775244500	24	4500	≤250	3850	≤1250	538	21.1	4134	≤8.3
RS-775246000	24	6000	≤600	5100	≤1800	574	30.8	4565	≤12.1

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见57、59页
本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 57、59
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
The above parameters are for reference only.

Twirl Motor

直流行星减速电机 Planetary gear DC motor PG45ZY45

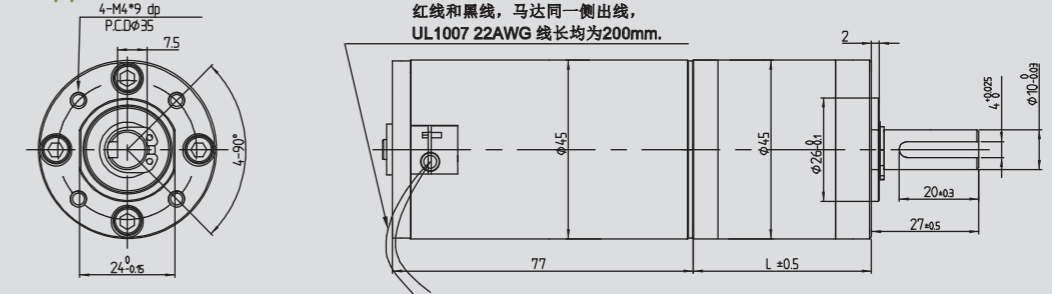
适用范围/Scope of application

监控云台 | 烘烤架 | 烤炉 | 清洗机 | 广告牌 | 捆钞机 | 稳压器
自动开门器 | 游戏机 | 灌流泵 | 办公设备 | 呼吸机电机 等等

Monitoring PTZ | Baking rack | Oven | Washing machine | Billboard
| Binding machine | Regulator | Automatic door opener | Game
machine | Irrigation pump | Office equipment | Electronic components
for medical Ventilato, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7	10.2,13.7,19.2	32.5,50.9,71.2,99.5	139,188,264,369,516	699,977,1367,1911,2672
齿轮箱长度 Gearbox length "L" mm	33.6	44.9	56.2	67.5	78.8
额定扭矩 Max. Running torque	50.0kgf · cm	100.0kgf · cm	200.0kgf · cm	200.0kgf · cm	200.0kgf · cm
损坏扭矩 Gear breaking torque	100.0kgf · cm	300.0kgf · cm	600.0kgf · cm	600.0kgf · cm	600.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
ZY45124500	12	4500	≤400	3300	≤3600	800	26.4	3200	≤12.5
ZY45126000	12	6000	≤700	4500	≤6900	1100	49.5	4400	≤25
ZY45244500	24	4500	≤280	3300	≤1800	800	26.4	3200	≤6.3
ZY45246000	24	6000	≤350	4500	≤3500	1100	49.5	4400	≤13

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见57、59页
本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 57、59
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
The above parameters are for reference only.

● PRODUCT SERIES 产品系列

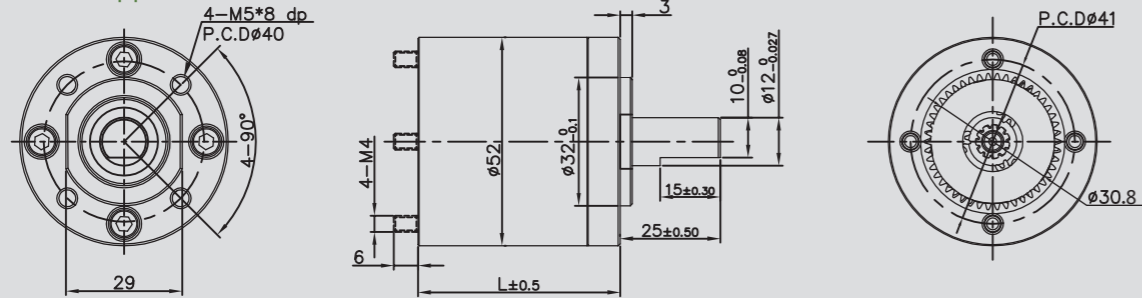
行星减速箱 Planetary Gearbox PG52



外壳材质 (Housing material): metal
 背隙,无负荷时 (Backlash,at no-load): $\leq 1.5^\circ$
 轴承型号 (Bearing at output): Ball bearings
 径向间隙 (Radial play of shaft): ≤ 0.1 mm
 轴向间隙 (Thrust play shaft): ≤ 0.2 mm
 齿轮箱适用于ZY52马达。
 (The gear box can apply to ZY52 motors)

△ 马达瞬间允许扭矩450kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed , high gear ratio will cause gear motor torque more than 450kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	0.7	0.7
齿数 NO.of teeth	11	17
压力角 Pressure angle	20°	20°
孔径 Hole diameter	ϕ 4.5D型	ϕ 7.96

使用温度范围/Operating temperature range: $-30^\circ\text{C} \sim +85^\circ\text{C}$
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.7, 5.2	312/17, 52/11	50.0kgf·cm	150.0kgf·cm	90%	1	27.3	=
13.7, 19.2, 26.9	133/4, 1938/187, 26103/121	100.0kgf·cm	300.0kgf·cm	81%	2	38.9	=
50.9, 71.2	504397/4913, 71524/3179	300.0kgf·cm	900.0kgf·cm	73%	3	50.5	=
99.5, 139	991044/2057, 139184/1331	300.0kgf·cm	900.0kgf·cm	73%	3	50.5	=
188, 264, 369	188.611, 263.729, 369.763	300.0kgf·cm	900.0kgf·cm	65%	4	62.1	=
516, 721	515.630, 720.989	300.0kgf·cm	900.0kgf·cm	65%	4	62.1	=
699, 997	698.969, 977.347	300.0kgf·cm	900.0kgf·cm	59%	5	73.7	=
1367, 1911	1366.593, 1910.864	300.0kgf·cm	900.0kgf·cm	59%	5	73.7	=
2672, 3736	2671.901, 3736.034	300.0kgf·cm	900.0kgf·cm	59%	5	73.7	=

○ 以上参数仅供参考，具体以实物为准。
 The above parameters are for reference only.

直流行星减速电机 Planetary gear DC motor PG52ZY52

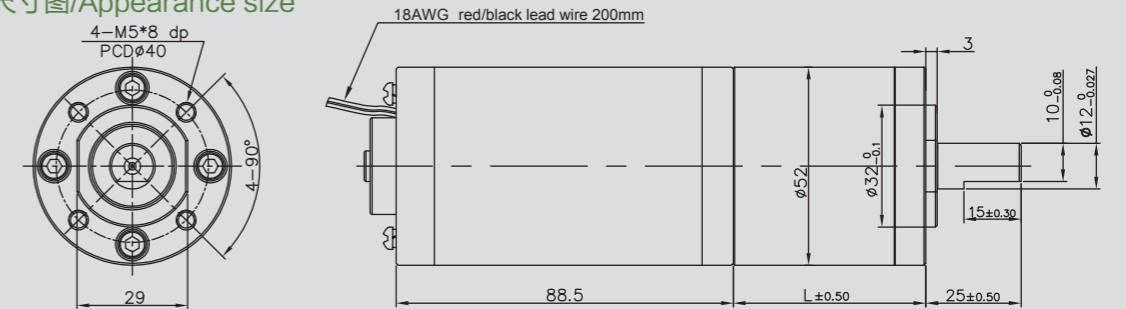
适用范围/Scope of application

自动流水线 | 硬币退币机 | 遮阳棚 | 柔巾机
 自动门 | 覆膜机 | 办公设备 | 家用电器 等等

Automatic assembly line | Money return machine | awning | towel machine | Automatic door | laminating machine | office equipment household appliances etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7,5.2	13.7,19.2,26.9	50.9,71.2,99.5,139	188,264,369,516,721	699,977,1367,1911,2672,3736
齿轮箱长度 Gearbox length "L" mm	27.3	38.9	50.5	62.1	73.7
额定扭矩 Max.Running torque	50.0kgf·cm	100.0kgf·cm	300.0kgf·cm	300.0kgf·cm	300.0kgf·cm
损坏扭矩 Gear breaking torque	150.0kgf·cm	300.0kgf·cm	900.0kgf·cm	900.0kgf·cm	900.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
ZY52123000	12	3000	≤ 650	2550	≤ 4900	1316	35.1	6416	≤ 21.1
ZY52243000	24	3000	≤ 400	2623	≤ 2880	1634	32.1	8712	≤ 13.8

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见60页
 本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 60
 Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
 The above parameters are for reference only.

● PRODUCT SERIES 产品系列

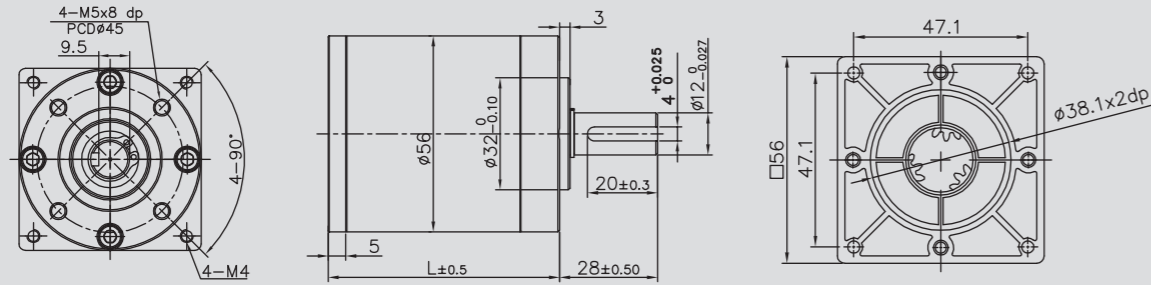
行星减速箱 Planetary Gearbox PG56



外壳材质 (Housing material): metal
 背隙,无负荷时 (Backlash,at no-load): ≤1.5°
 轴承型号 (Bearing at output): Ball bearings
 径向间隙 (Radial play of shaft): ≤0.1 mm
 轴向间隙 (Thrust play shaft): ≤0.2 mm
 齿轮箱适用于ZY58马达。
 (The gear box can apply to ZY58 motors)

⚠ 马达瞬间允许扭矩600kgf·cm。当使用低转速、高速比时，请选用低功率马达，请做好保护措施。
 (When the motors using at low speed , high gear ratio will cause gear motor torque more than 600kgf.cm.At this torque the gears will be broken easily. Be noted.)

外形尺寸图/Appearance size



马达齿轮参数/Pinion Specifications

模数 Module	1.0	1.0
齿数 NO.of teeth	12	15
压力角 Pressure angle	20°	20°
孔径 Hole diameter	φ 5.97	φ 5.97, φ 7.96

使用温度范围/Operating temperature range: -30℃~+85℃
 使用相对湿度/Operating relative humidity: 20%~85%RH

标准减速比参数/Gearboxes Specifications

减速比 Raduction ratio	精确减速比 Raduction absolute	额定允许扭矩 Rated tolerance torque	极限扭矩 Max breaking torque	效率 Efficiency	级数 Number of stages	齿轮箱长度 Gearbox length "L" mm	输入输出方向 Input/output direction
3.6, 4.3	33/5, 41/4	100.0kgf·cm	300.0kgf·cm	90%	1	37.1	=
13, 19.2, 22.7	1224/25, 191/5, 222/3	200.0kgf·cm	600.0kgf·cm	81%	2	51.0	=
46.7, 69	4682/125, 693/25	400.0kgf·cm	1200.0kgf·cm	73%	3	64.9	=
102, 121	1022/5, 1208/9	400.0kgf·cm	1200.0kgf·cm	73%	3	64.9	=
198, 276	19836/125, 27657/160	400.0kgf·cm	1200.0kgf·cm	65%	4	78.8	=
326, 409, 513	32665/256, 4095/12, 5137/9	400.0kgf·cm	1200.0kgf·cm	65%	4	78.8	=
843, 995	84218/25, 994353/400	400.0kgf·cm	1200.0kgf·cm	59%	5	95.2	=
1567, 1966	156618/25, 19662/25	400.0kgf·cm	1200.0kgf·cm	59%	5	95.2	=
2321, 3439	23211/15, 343850/81	400.0kgf·cm	1200.0kgf·cm	59%	5	95.2	=

○ 以上参数仅供参考，具体以实物为准。
 The above parameters are for reference only.

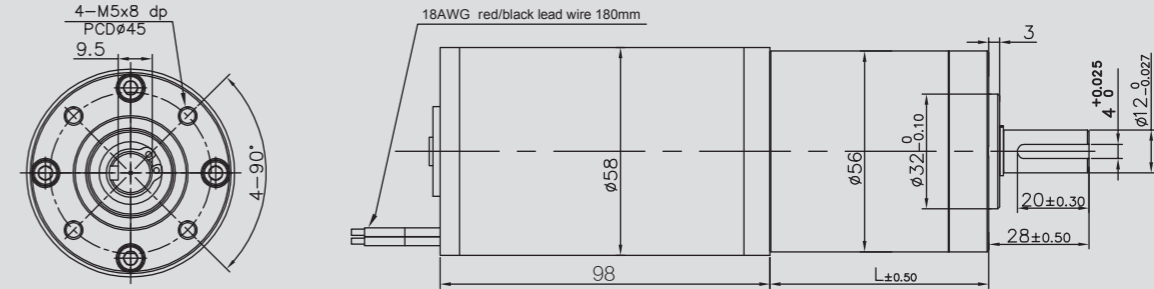
直流行星减速电机 Planetary gear DC motor PG56ZY58

适用范围/Scope of application

医疗器械 | 自动售货机 | 纺织机 | 地铁广告牌 | 点钞机
 自动门 | 覆膜机 | 碎纸机 | 办公设备 | 家用电器 等等
 Medical Equipment | Vending Machine | Textile Machine | Subway
 Billboard | Banknote Counter | Automatic door | laminating machine
 shredder | office equipment | household appliances etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.6,4.3	13,15.3,19.2	46.7,69,102,121	198,276,326,409,513	843,995,1567,1966,2321,3439
齿轮箱长度 Gearbox length "L" mm	32.1	46.0	59.9	73.8	90.2
额定扭矩 Max.Running torque	100.0kgf·cm	200.0kgf·cm	400.0kgf·cm	400.0kgf·cm	400.0kgf·cm
损坏扭矩 Gear breaking torque	300.0kgf·cm	600.0kgf·cm	1200.0kgf·cm	1200.0kgf·cm	1200.0kgf·cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
ZY58123000	12	3000	≤444	2600	≤3290	1508	38.1	7594	≤21.1
ZY58243000	24	3000	≤252	2605	≤6252	1562	39.5	8392	≤12.4

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见61页
 本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
 Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 61
 Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
 The above parameters are for reference only.

Twirl Motor

直流无刷行星减速电机 Planetary gear BLDC motor PG28BL28

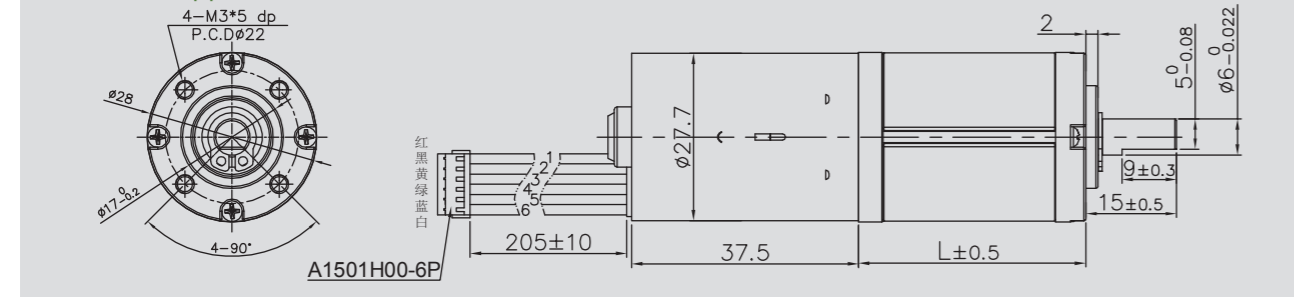
适用范围/Scope of application

蠕动泵 | 微型数控设备 | 自动取款机 | 出卡机 | 遥控窗帘 | 太阳能油印机 | 家用电器 | 办公设备 | 自动执行器 等等。

Peristaltic pump | Miniature CNC equipment | Automated teller machine | Card dispenser | Remote control curtain | Solar energy | Mimeograph | Household appliances | Office equipment | Automatic actuators, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.3,4.6	11.2,15.5,21.5	37.7,52.1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 Gearbox length "L" mm	20.2	25.9	31.7	37.5	43.3
额定扭矩 Max. Running torque	10.0kgf · cm	20.0kgf · cm	50.0kgf · cm	50.0kgf · cm	50.0kgf · cm
损坏扭矩 Gear breaking torque	20.0kgf · cm	600.0kgf · cm	150.0kgf · cm	150.0kgf · cm	150.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
BL28126000	12	6000	≤120	5100	≤553	84	4.73	500	≤2.7
BL28246000	24	6000	≤65	5170	≤266	77	4.08	559	≤1.5

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见62页
本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 62
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
The above parameters are for reference only.

Twirl Motor

直流无刷行星减速电机 Planetary gear BLDC motor PG32BL32

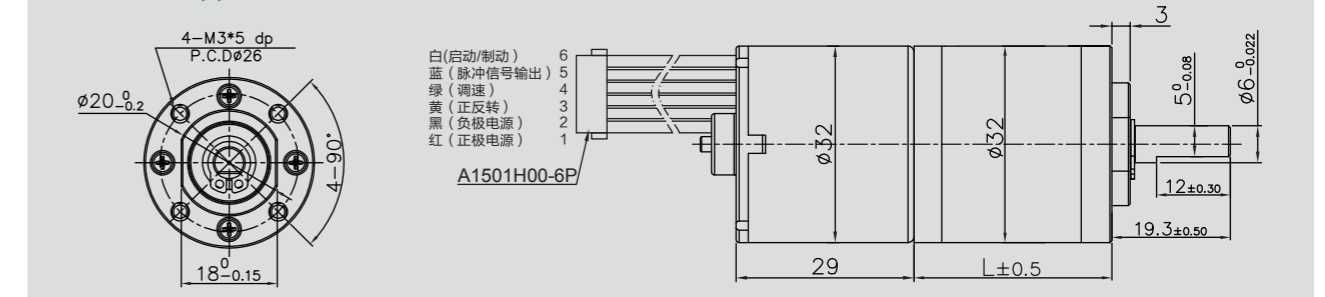
适用范围/Scope of application

机器人 | 微型数控设备 | 自动取款机 | 柔巾机 | 遥控窗帘 | 舞台灯光 电动广告 | 家用电器 | 电视支架 | 自动执行器 | 可调价望远镜 等等

Robot | Micro CNC Equipment | Automated Teller Machine | Soft Tissue Machine | Remote Control Curtains | Stage Lighting | Electric Advertising | Home Appliances | TV Stand | Auto Actuator | Adjustable Price Telescope, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.3,4.6	11.2,15.5,21.5	37.7,52.1,72,100	126,174,241,334,462	423,585,810,1120,1549,2142
齿轮箱长度 Gearbox length "L" mm	20.7	26.4	32.2	38	43.8
额定扭矩 Max. Running torque	10.0kgf · cm	20.0kgf · cm	50.0kgf · cm	50.0kgf · cm	50.0kgf · cm
损坏扭矩 Gear breaking torque	20.0kgf · cm	60.0kgf · cm	150.0kgf · cm	150.0kgf · cm	150.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
BL32126000	12	6000	≤120	4850	≤440	72	3.61	424	≤2.23
BL32246000	24	6000	≤55	4963	≤241	70	3.56	440	≤1.16

注：减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率；输出转速=马达转速/减速比；马达曲线图详见63页
本公司可定做各种非标产品，如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 63
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考，具体以实物为准。
The above parameters are for reference only.

Twirl Motor

直流无刷行星减速电机 Planetary gear BLDC motor PG36BL36

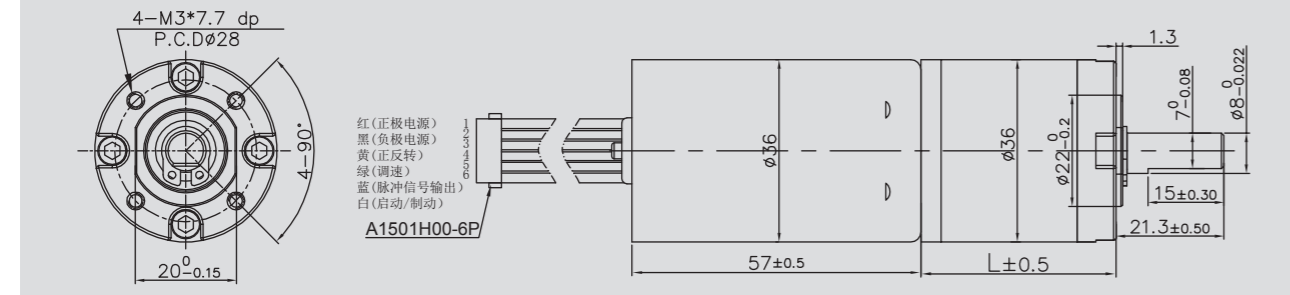
适用范围/Scope of application

遥控窗帘 | 监控云台 | 自动售货机 | 验钞机 | 硬币退币机 | 点钞机
柔巾机 | 自动门 | 覆膜机 | 自动电视架 | 办公设备 | 家用电器 等等

Remote Control Curtains | Monitor PTZ | Vending Machine | Money
Detector | Coin Refund | Order money | Soft Tissue Machine |
Automatic door | Laminating machine | Automatic TV stand | Office
equipment | Household appliances etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7,5.2	13.7,19.2,26.9	50.9,71.2,99.5,139	188,264,369,516,721	699,977,1367,1911,2672,3736
齿轮箱长度 Gearbox length "L" mm	25.1	32.3	38.5	44.7	50.9
额定扭矩 Max. Running torque	20.0kgf · cm	50.0kgf · cm	100.0kgf · cm	100.0kgf · cm	100.0kgf · cm
损坏扭矩 Gear breaking torque	60.0kgf · cm	150.0kgf · cm	200.0kgf · cm	200.0kgf · cm	200.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
BL36126000	12	6000	≤460	5160	≤1580	257	13.6	1775	≤1.8
BL36245000	24	5000	≤220	4100	≤1086	395	16.4	2317	≤5.34
BL36246000	24	6000	≤220	5100	≤1204	385	20.1	2737	≤7.1
BL36249000	24	9000	≤380	7900	≤2200	440	35.9	3396	≤14.1

注: 减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率; 输出转速=马达转速/减速比; 马达曲线图详见64页
本公司可定做各种非标产品, 如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 64
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考, 具体以实物为准。
The above parameters are for reference only.

Twirl Motor

直流无刷行星减速电机 Planetary gear BLDC motor PG45BL42

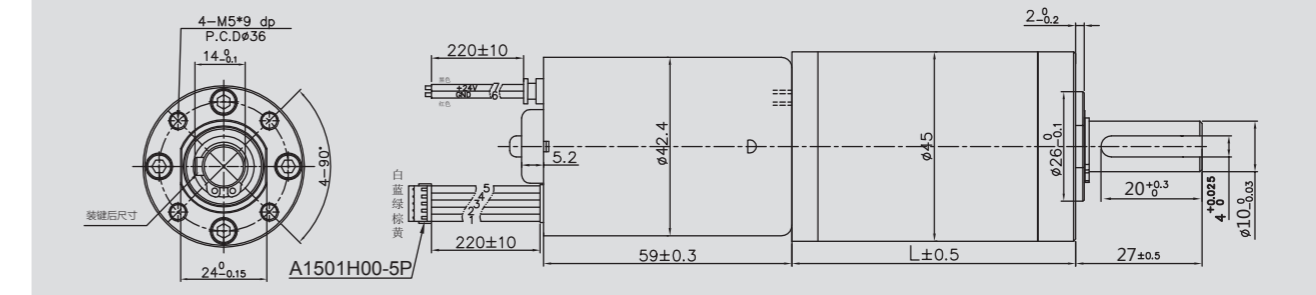
适用范围/Scope of application

监控云台 | 烘烤架 | 烤炉 | 清洗机 | 广告牌 | 捆钞机 | 稳压器
自动开门器 | 游戏机 | 灌溉泵 | 办公设备 | 家用电器 等等

Monitoring PTZ | Baking rack | Oven | Washing machine | Billboard
| Binding machine | Regulator | Automatic door opener | Game
machine | Irrigation pump | Office equipment | Home appliances, etc.



外形尺寸图/Appearance size



减速箱清单/Gearbox data

级数 Number of stages	1	2	3	4	5
减速比 Reduction ratio	3.7	10.2,13.7,19.2	32.5,50.9,71.2,99.5	139,188,264,369,516	699,977,1367,1911,2672
齿轮箱长度 Gearbox length "L" mm	33.6	44.9	56.2	67.5	78.8
额定扭矩 Max. Running torque	50.0kgf · cm	100.0kgf · cm	200.0kgf · cm	200.0kgf · cm	200.0kgf · cm
损坏扭矩 Gear breaking torque	150.0kgf · cm	300.0kgf · cm	300.0kgf · cm	600.0kgf · cm	600.0kgf · cm
效率 Gearing efficiency	90%	81%	73%	65%	59%

马达清单/Motor data

马达型号 Motor type	额定电压 Rated volt (V)	空载转速 No load speed (rpm)	空载电流 No load current (mA)	额定转速 Rated speed (rpm)	额定电流 Rated current (mA)	额定扭矩 Rated torque (gf.cm)	额定功率 Rated output (W)	堵转扭矩 Stall torque (gf.cm)	堵转电流 Stall current (A)
BL42126000	12	6000	≤620	5133	≤2785	469	24.7	3396	≤17.1
BL42246000	24	6000	≤340	5319	≤1968	669	36.5	5496	≤14.1

注: 减速后的输出扭矩=马达扭矩×减速比×齿轮箱效率; 输出转速=马达转速/减速比; 马达曲线图详见65页
本公司可定做各种非标产品, 如有需要请来电咨询。

Note: Output torque after deceleration = motor torque X reduction ratio X gearing efficiency;
Output speed = motor speed / reduction ratio; Motor performance curve is shown on Page 65
Our company can customize a variety of non-standard products, please contact us.

○ 以上参数仅供参考, 具体以实物为准。
The above parameters are for reference only.

● PRODUCT SERIES 产品系列

(Encoders) ME-3237D

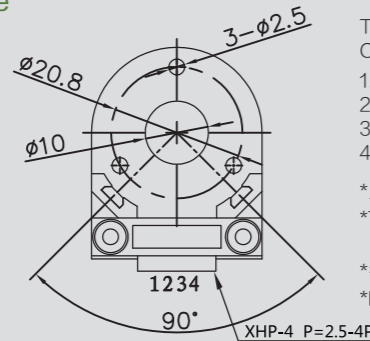
双通道磁性译码器

Two Channel Hall Effect Encoder

- ★使用相对湿度: 20%~85% RH
Operating relative humidity
- ★使用温度范围: -40℃~+85℃
Operating temperature range



外形尺寸图/Appearance size



Two Channel Encoder
Connections:

- 1.HALL SENSOR A Vout
- 2.HALL SENSOR B Vout
- 3.HALL SENSOR GND
- 4.HALL SENSOR Vcc

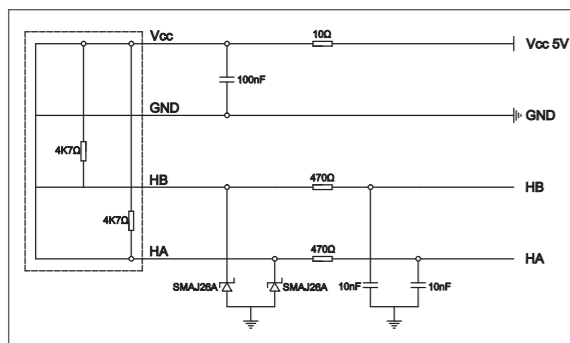
*此译码器主要安装在步进电机, 空心杯电机, 钢管电机。
*The decoder is mainly installed in stepper motor, hollow cup motor, steel tube motor.
*每周输出13PPR
*Each turn output 13PPR

规格特性 Charac teristics	代号 Symbol	测试条件 Test conditions	极小 Min	基本 Ref	最大 Max	单位 Units
输入电压 Supply Voltage	Vcc	-----	4.5	--	24	V
输入电流 Supply Current	Icc	-----	--	14	20	mA
输出电流 Output Current	Ic	Vce=12V; Gauss<-170	--	<0.1	20	mA
输出漏电流 Output Leakage Current	Icex	Output open; 25°C [77°F]	--	--	10	μA
输出上升时间 Output Rise Time	Tr	RL=820Ω; CL=20pF; 25°C	--	0.5	1.5	μS
输出下降时间 Output Fall Time	Tf	RL=820Ω; CL=20pF; 25°C	--	0.2	1.5	μS

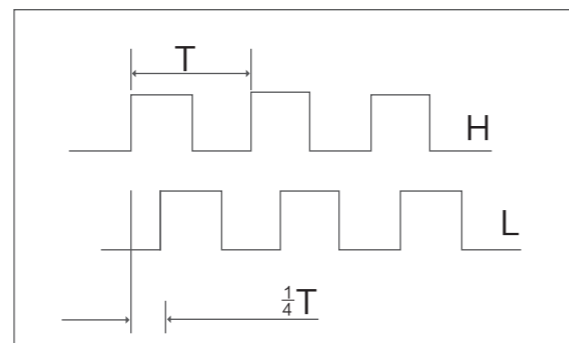
ELECTRICAL CHARACTERISTICS

At V = 4.5V to 24V with 20mA load with Ta=-40°C to 125°C [-77°F to 257°F] unless otherwise noted.

输出电路\Output Circuit



输出波形\Output Wave



○ The above parameters are for reference only.

● PRODUCT SERIES 产品系列

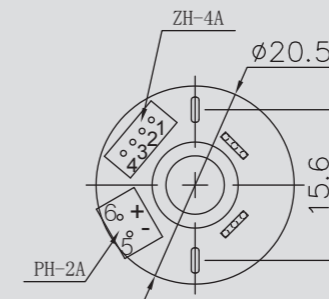
(Encoders) ME-180

双通道磁性译码器

Two Channel Hall Effect Encoder

- ★使用相对湿度: 20%~85% RH
Operating relative humidity
- ★使用温度范围: -40℃~+85℃
Operating temperature range

外形尺寸图/Appearance size



Two Channel Encoder
Connections:

- 1.HALL SENSOR Vcc
- 2.HALL SENSOR GND
- 3.HALL SENSOR A Vout
- 4.HALL SENSOR B Vout
- 5.MOTOR -
- 6.MOTOR +

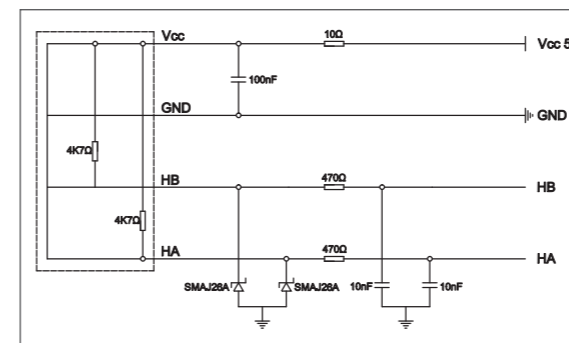
*此译码器主要安装在180电机上。
*This decoder is mainly installed on 180 motors.
*每周输出1PPR 3PPR
*Each turn output 1PPR 3PPR

规格特性 Charac teristics	代号 Symbol	测试条件 Test conditions	极小 Min	基本 Ref	最大 Max	单位 Units
输入电压 Supply Voltage	Vcc	-----	4.5	--	24	V
输入电流 Supply Current	Icc	-----	--	14	20	mA
输出电流 Output Current	Ic	Vce=12V; Gauss<-170	--	<0.1	20	mA
输出漏电流 Output Leakage Current	Icex	Output open; 25°C [77°F]	--	--	10	μA
输出上升时间 Output Rise Time	Tr	RL=820Ω; CL=20pF; 25°C	--	0.5	1.5	μS
输出下降时间 Output Fall Time	Tf	RL=820Ω; CL=20pF; 25°C	--	0.2	1.5	μS

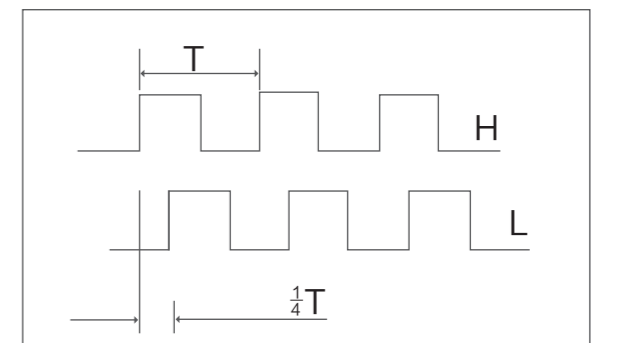
ELECTRICAL CHARACTERISTICS

At V = 4.5V to 24V with 20mA load with Ta=-40°C to 125°C [-77°F to 257°F] unless otherwise noted.

输出电路\Output Circuit



输出波形\Output Wave



○ The above parameters are for reference only.

● **PRODUCT SERIES** 产品系列

(Encoders) ME-28

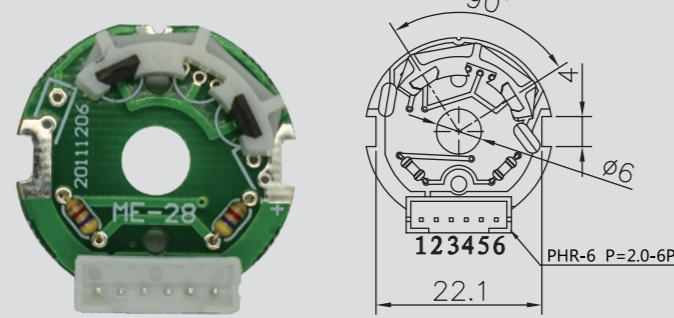
双通道磁性译码器

Two Channel Hall Effect Encoder

- ★使用相对湿度: 20%~85% RH
Operating relative humidity
- ★使用温度范围: -40℃~+85℃
Operating temperature range



外形尺寸图/Appearance size



Two Channel Encoder
Connctions:
1.MOTOR -
2.MOTOR +
3.HALL SENSOR Vcc
4.HALL SENSOR GND
5.HALL SENSOR A Vout
6.HALL SENSOR B Vout

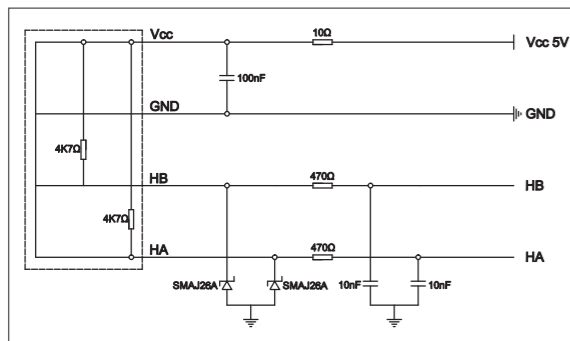
*此译码器主要安装在RS-385,RS-395电机上。
*This decoder is mainly installed on RS-385, RS-395 motors.
*每周输出3PPR,7PPR
*Each turnout 3PPR,7PPR

规格特性	代号	测试条件	极小	基本	最大	单位
Charac teristics	Symbol	Test conditions	Min	Ref	Max	Units
输入电压	Vcc	-----	4.5	--	24	V
Supply Voltage						
输入电流	Ice	-----	--	14	20	mA
Supply Current						
输出电流	Ic	Vce=12V; Gauss<-170	--	<0.1	20	mA
Output Current						
输出漏电流	Icex	Output open; 25°C [77°F]	--	--	10	μA
Output Leakage Current						
输出上升时间	Tr	RL=820Ω; CL=20pF; 25°C	--	0.5	1.5	μS
Output Rise Time						
输出下降时间	Tf	RL=820Ω; CL=20pF; 25°C	--	0.2	1.5	μS
Output Fall Time						

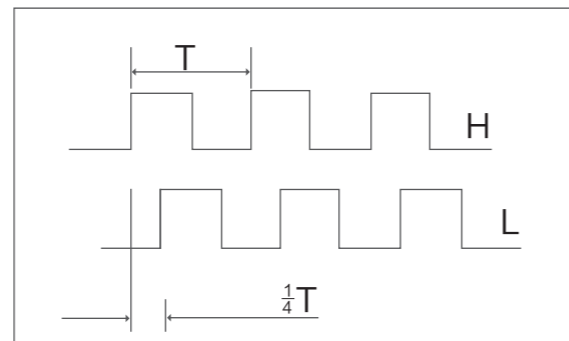
ELECTRICAL CHARACTERISTICS

At V = 4.5V to 24V with 20mA load with Ta=-40°C to 125°C [-77°F to 257°F] unless otherwise noted.

输出电路\Output Circuit



输出波形\Output Wave



○ The above parameters are for reference only.

● **PRODUCT SERIES** 产品系列

(Encoders) ME-37

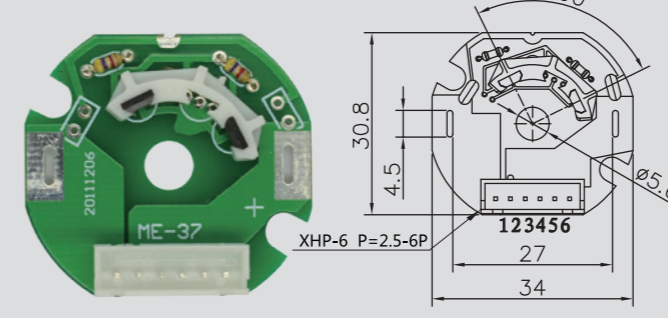
双通道磁性译码器

Two Channel Hall Effect Encoder

- ★使用相对湿度: 20%~85% RH
Operating relative humidity
- ★使用温度范围: -40℃~+85℃
Operating temperature range



外形尺寸图/Appearance size



Two Channel Encoder
Connctions:
1.MOTOR -
2.MOTOR +
3.HALL SENSOR Vcc
4.HALL SENSOR GND
5.HALL SENSOR A Vout
6.HALL SENSOR B Vout

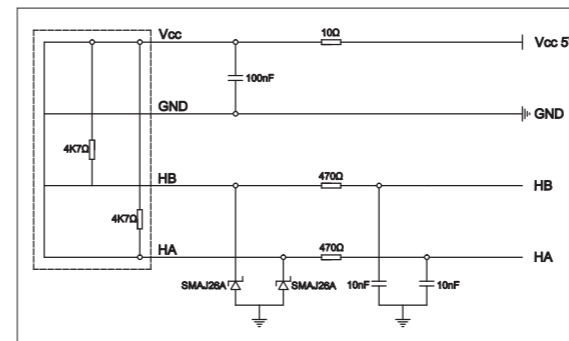
*此译码器主要安装在RS-545,RS-555电机上。
*This decoder is mainly installed on RS-545, RS-555, motors.
*每周输出3PPR,7PPR
*Each turnout 3PPR,7PPR

规格特性	代号	测试条件	极小	基本	最大	单位
Charac teristics	Symbol	Test conditions	Min	Ref	Max	Units
输入电压	Vcc	-----	4.5	--	24	V
Supply Voltage						
输入电流	Ice	-----	--	14	20	mA
Supply Current						
输出电流	Ic	Vce=12V; Gauss<-170	--	<0.1	20	mA
Output Current						
输出漏电流	Icex	Output open; 25°C [77°F]	--	--	10	μA
Output Leakage Current						
输出上升时间	Tr	RL=820Ω; CL=20pF; 25°C	--	0.5	1.5	μS
Output Rise Time						
输出下降时间	Tf	RL=820Ω; CL=20pF; 25°C	--	0.2	1.5	μS
Output Fall Time						

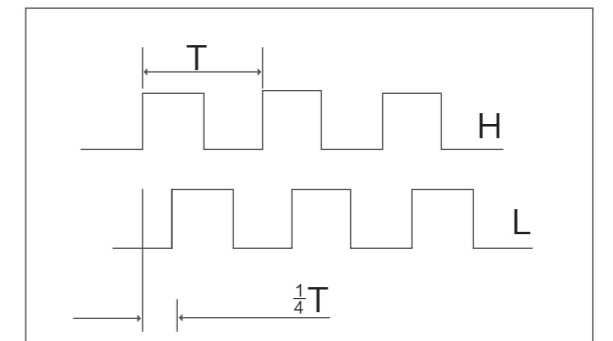
ELECTRICAL CHARACTERISTICS

At V = 4.5V to 24V with 20mA load with Ta=-40°C to 125°C [-77°F to 257°F] unless otherwise noted.

输出电路\Output Circuit



输出波形\Output Wave



○ The above parameters are for reference only.

Twirl Motor

● PRODUCT SERIES 产品系列

(Encoders) ME-GR

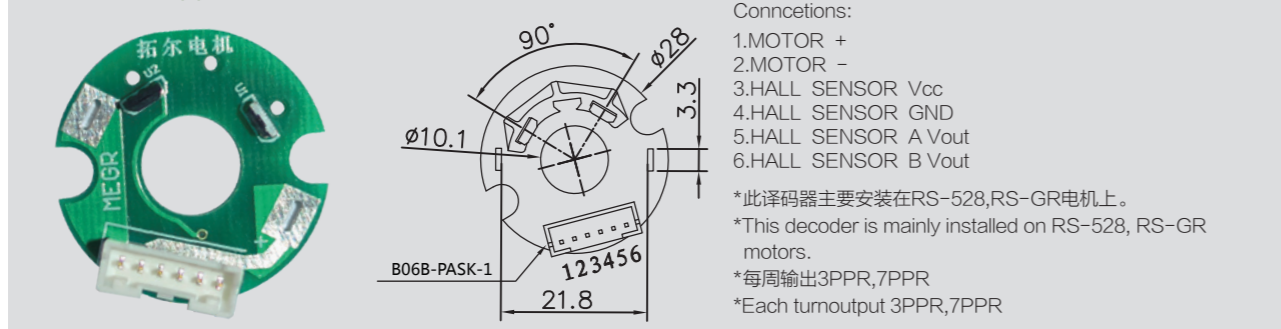
双通道磁性译码器

Two Channel Hall Effect Encoder

- ★使用相对湿度: 20%~85% RH
Operating relative humidity
- ★使用温度范围: -40°C~+85°C
Operating temperature range



外形尺寸图/Appearance size

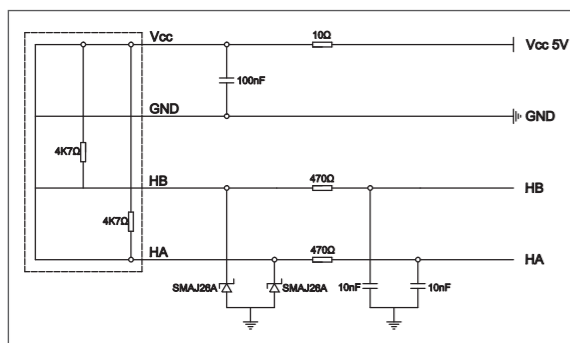


规格特性 Charac teristics	代号 Symbol	测试条件 Test conditions	极小 Min	基本 Ref	最大 Max	单位 Units
输入电压 Supply Voltage	Vcc	-----	4.5	--	24	V
输入电流 Supply Current	Icc	-----	--	14	20	mA
输出电流 Output Current	Ic	Vce=12V; Gauss<-170	--	<0.1	20	mA
输出漏电流 Output Leakage Current	Icex	Output open; 25°C [77°F]	--	--	10	μA
输出上升时间 Output Rise Time	Tr	RL=820Ω; CL=20pF; 25°C	--	0.5	1.5	μS
输出下降时间 Output Fall Time	Tf	RL=820Ω; CL=20pF; 25°C	--	0.2	1.5	μS

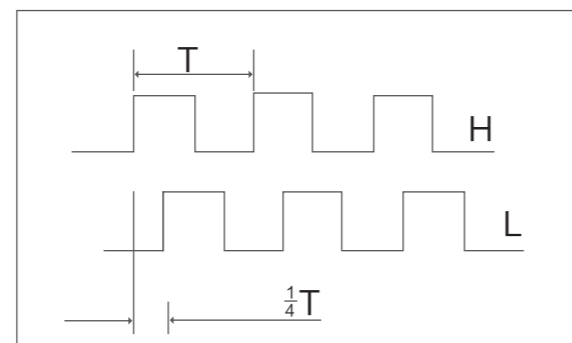
ELECTRICAL CHARACTERISTICS

At V = 4.5V to 24V with 20mA load with Ta = -40°C to 125°C [-77°F to 257°F] unless otherwise noted.

输出电路\Output Circuit



输出波形\Output Wave



○ The above parameters are for reference only.

Twirl Motor

● PRODUCT SERIES 产品系列

(Encoders) ME-775

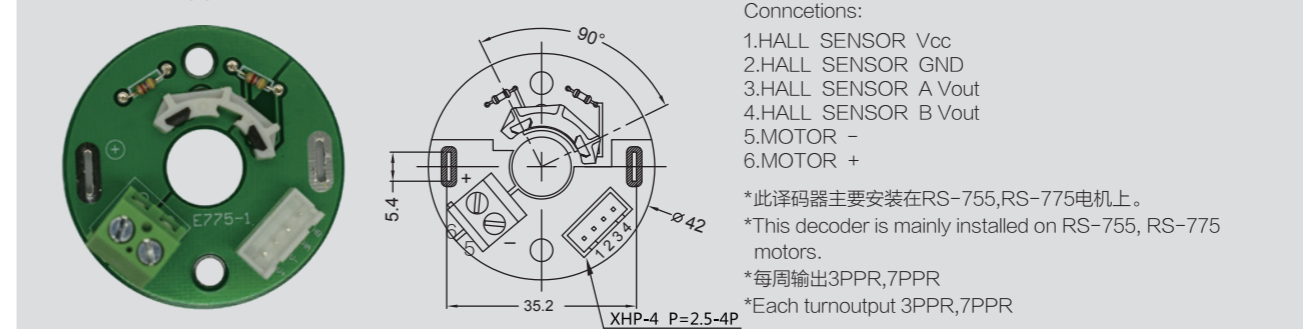
双通道磁性译码器

Two Channel Hall Effect Encoder

- ★使用相对湿度: 20%~85% RH
Operating relative humidity
- ★使用温度范围: -40°C~+85°C
Operating temperature range



外形尺寸图/Appearance size

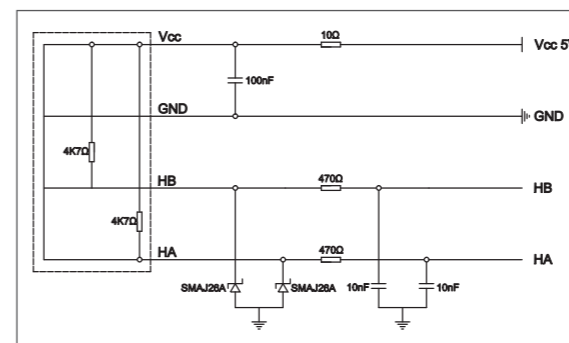


规格特性 Charac teristics	代号 Symbol	测试条件 Test conditions	极小 Min	基本 Ref	最大 Max	单位 Units
输入电压 Supply Voltage	Vcc	-----	4.5	--	24	V
输入电流 Supply Current	Icc	-----	--	14	20	mA
输出电流 Output Current	Ic	Vce=12V; Gauss<-170	--	<0.1	20	mA
输出漏电流 Output Leakage Current	Icex	Output open; 25°C [77°F]	--	--	10	μA
输出上升时间 Output Rise Time	Tr	RL=820Ω; CL=20pF; 25°C	--	0.5	1.5	μS
输出下降时间 Output Fall Time	Tf	RL=820Ω; CL=20pF; 25°C	--	0.2	1.5	μS

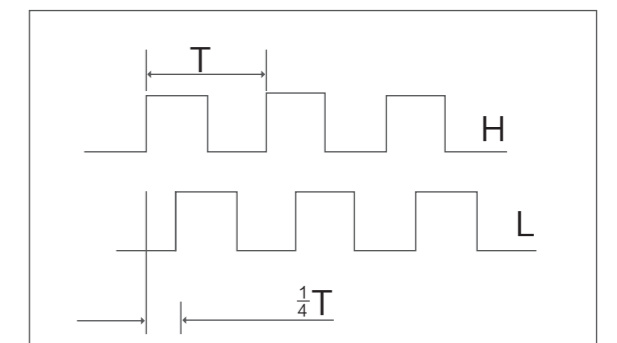
ELECTRICAL CHARACTERISTICS

At V = 4.5V to 24V with 20mA load with Ta = -40°C to 125°C [-77°F to 257°F] unless otherwise noted.

输出电路\Output Circuit



输出波形\Output Wave



○ The above parameters are for reference only.