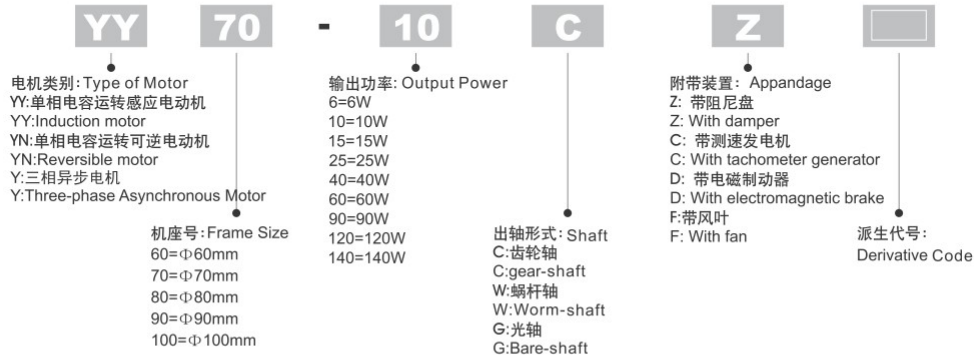
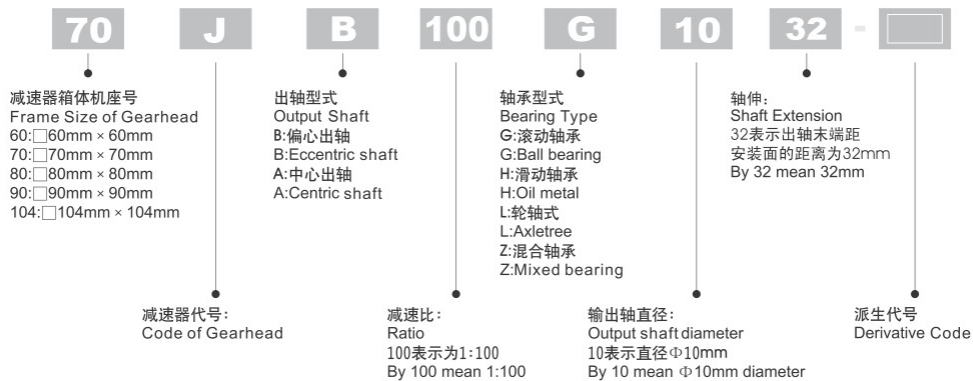


电机的型号命名 MODEL NAME OF MOTOR



减速器型号命名 MODEL NUMBER OF GEAR HEAD



组合命名 MODEL NAME OF GEARMOTOR

电机与减速器组成减速器电动机, 电机与减速器用“/”分开, 出轴带齿省略“C”。
The gearmotor are assembled with motor and reduction gear, and they are separated by symbol /.
The gearmotor with gear shaft omit the "C".



产品介绍 DESCRIPTION OF THE PRODUCTS

本产品是目前国际上较先进的低转速电动机。采用交流单相电容运转电机，配上一种合适的齿轮减速器，达到某种需要的输出。适合于在低速传动装置中作驱动元件，能起到简化机械结构和降低能耗的作用。按其功能分有YY型感应电动机和YN型可逆电动机两种，每种还可以增加无级变速的速度控制功能。部分电机还可配带微型电磁制动器。

YY型感应电机适用于按一个方向连续运转的工作场合，如生产流水线、自动机床、印刷机械等。

YN型可逆电动机适合于频繁启动或换向运转的场合，如自动售货机、包装机、电压调整器、电动升降机、电动执行器等。

YY induction motor for applications where uni-directional continuous situation, such as production line, automatic machine, printing machine, etc.

YN reversible motor for applications where the motor frequent starting and stopping, such as auto vending machine, packing and lifting machine, etc.

通用技术条件 GENERAL SPECIFICATION

常态绝缘电阻	Normal Insulation resistance	100 M Ω
绝缘介电强度	Dielectric strength	AC 180V 1S
电机温升	Temperature rise	$\leq 75K$
电机噪音	Noise	$\leq 55dB$

工作环境要求 OPERATING CONDITIONS

海拔高度	Altitude is no higher than	$\leq 2500m$
环境温度	Ambient temperature	$-10^{\circ}C \sim 40^{\circ}C$
相对湿度(温度20 $^{\circ}C$ 时)	Relative humidity (Temperature 20 $^{\circ}C$)	$< 90\%$

贮存环境要求 STORAGE CONDITIONS

空气温度	Air temperature	$-5^{\circ}C \sim +35^{\circ}C$
相对湿度(温度20 $^{\circ}C$ 时)	Relative humidity (Temperature 20 $^{\circ}C$)	$< 70\%$
通风良好，不带有腐蚀性气体	Well ventilation, away from corrosive gas	

注意事项 ATTENTION

按正确的方法接线

Connect wire in right way.

电机不宜长时间空载运行或超负荷低速运行及堵转，以免温升过高

Do not run motor in no-load or overload in low speed for long time to avoid high temperature rise.

电机和测速机引出线不可用力拖拉，以免拉断内部线圈

Don't drag the expansion line of tachogenerator.

已装配好的齿轮减速器不要随便拆装，以免灰尘进去或齿轮啮合不好产生噪音

Do not disassemble or assemble the gear head casually to avoid noise.

电机和齿轮减速器的出轴与负载连接时不能重击、挤压，以免造成内部变形错位，产生严重噪声或卡死现象

Do not beat or press when the motor connecting to the load to avoid internal deformation which will in turn cause noise and dead lock.

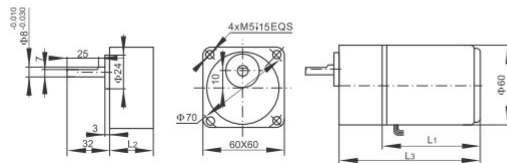
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● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率	Voltage 电压	Frequency 频率	Current 电流	Starting Torque 启动力矩		Rated Speed 额定转速	Rated Torque 额定转矩		Capacitor 电容
		W	VAC	Hz	A	mN.m	Oz.in	r/min	mN.m	Oz.in	uF
YY(YN)60-4	4	4	Single-Phase 110	50	0.2	40		1250	30.6		3/250
YY(YN)60-4	4	4	Single-Phase 220	50	0.1	40		1250	30.6		0.8/450
YY(YN)60-6	4	6	Single-Phase 110	50	0.24	70		1250	46		3/250
YY(YN)60-6	4	6	Single-Phase 220	50	0.12	70		1250	46		0.8/450
YY(YN)60-10	4	10	Single-Phase 110	50	0.3	90		1250	76.4		4/250
YY(YN)60-10	4	10	Single-Phase 220	50	0.15	90		1250	76.4		1/450

● 外形尺寸 EXTERNAL DIMENSION



Type 型号	Ratio 减速比	L1 mm	L2 mm	L3 mm
YY(YN)60-4	1:3-1:18	62	32	94
YY(YN)60-6		75		107
YY(YN)60-10				
YY(YN)60-4		62		102
YY(YN)60-6	1:20-1:180	75	42	115
YY(YN)60-10				

● 接线图 WIRING DIAGRAM



● 带减速器后允许负载 LOAD PERMISSIBLE WITH SPEED REDUCER

表列数字是根据电机同步运转的转速。在额定负载情况下实际输出转速为同步运转转速的80%-98%。浅灰色表示输出轴运转方向与电机转向相同，白色栏表示输出方向与电机出轴转向相反。
Note: Speed figures are based on synchronous speed. The actual output speed, under rated torque conditions, is about 2-20% less than synchronous speed, a grey background indicates rotation in the same direction as output shaft of motor. A white background indicates rotation in the opposite direction.

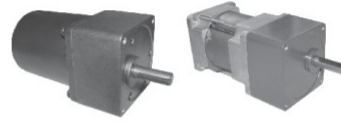
同步转速 Gear reduction ratio	r/min	500	400	300	250	200	150	120	100	80	75	60	50	40	35	30	25	20	16	15	12	10	8
3	3.6	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180		
允许负载 Permissible load	4	N·m	0.12	0.15	0.2	0.24	0.3	0.36	0.45	0.54	0.67	0.72	0.9	1.1	1.28	1.46	1.52	1.63	1.8	2.2	2.2	2.2	2.2
	6	N·m	0.16	0.2	0.26	0.32	0.4	0.48	0.6	0.72	0.89	0.96	1.2	1.46	1.7	1.94	2.02	2.17	2.4	2.9	2.9	2.9	2.9
	10	N·m	0.24	0.30	0.38	0.48	0.72	0.9	1.08	1.33	1.44	1.79	2.19	2.54	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

YN70

交流
AC Gear
减速电机

本品专利：
轴承装配结构 (专利号: YY75200920199893.1)
低振动电机 (专利号: 200920199892.7)
交流电机 (YN75-115-25) (专利号: 200930156996.5)

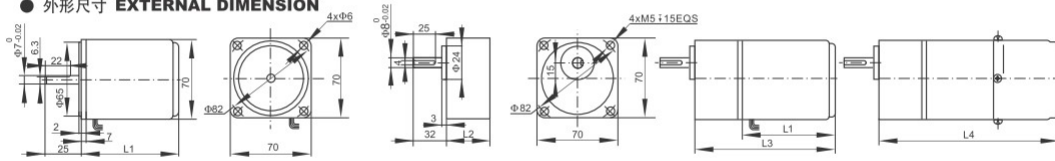
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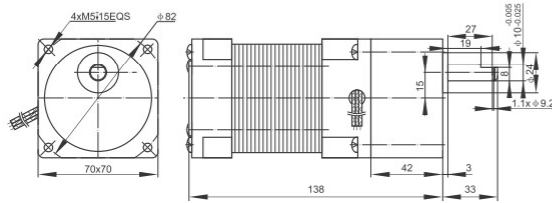
● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 mN.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 mN.m	Capacitor 电容 uF
YY(YN)70-10(D)	4	10	Single-Phase 110	50	0.35	64.7	1250	73.5	4/250
YY(YN)70-10(D)	4	10	Single-Phase 220	50	0.16	64.7	1250	73.5	1/450
YY(YN)70-15(D)	4	15	Single-Phase 110	50	0.4	110	1250	115	6/250
YY(YN)70-15(D)	4	15	Single-Phase 220	50	0.2	110	1250	115	1.5/450
YY(YN)70-20(D)	4	20	Single-Phase 110	50	0.5	140	1250	160	7/250
YY(YN)70-20(D)	4	20	Single-Phase 220	50	0.25	140	1250	160	1.8/450
YY(YN)70-25(D)	4	25	Single-Phase 110	50	0.5	170	1250	200	8/250
YY(YN)70-25(D)	4	25	Single-Phase 220	50	0.25	170	1250	200	2/450
YN70-30	4	30	Single-Phase 110	50	0.9	300	1250	220	14/250
YN70-30	4	30	Single-Phase 220	50	0.45	300	1250	220	3.5/250

● 外形尺寸 EXTERNAL DIMENSION



YN70-30



Type 型号	Ratio 减速比	L1 mm	L2 mm	L3 mm	L4 mm
YY(YN)70-10(D)	1:3~1:18	72	32	104	160
YY(YN)70-15(D)		80		112	175
YY(YN)70-20(D)	1:20~1:180	93		125	186
YY(YN)70-10(D)		72	42	114	170
YY(YN)70-15(D)		80		122	185
YY(YN)70-20(D)	93			135	196
YY(YN)70-25(D)					

● 接线图 WIRING DIAGRAM



● 带减速器后允许负载 LOAD PERMISSIBLE WITH SPEED REDUCER

表列数字是根据电机同步运转的转速，在额定负载情况下实际输出转速为同步运转转速的80%-98%。浅灰色表示输出轴转向与电机转向相同，白色栏表示输出方向与电机出轴转向相反。
Note: Speed figures are based on synchronous speed. The actual output speed, under rated torque conditions, is about 2-20% less than synchronous speed, a grey background indicates output shaft of geared motor rotates in the same direction as output shaft of motor. A white background indicates rotation in the opposite direction.

同步转速 Gear reduction ratio	r/min	400	300	250	200	150	120	100	80	75	60	50	40	35	30	25	20	16	15	12	10	8
减速比		3.6	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180
允许负载 Permissible load W	10 N·m	0.22	0.29	0.34	0.42	0.56	0.7	0.84	1.0	1.07	1.33	1.6	1.92	2.1	2.4	2.8	3.0	3.0	3.0	3.0	3.0	3.0
	15 N·m	0.35	0.47	0.56	0.7	0.93	1.1	1.4	1.75	1.86	2.1	2.5	3.0	3.4	3.8	4.4	4.9	4.9	4.9	4.9	4.9	4.9
	20 N·m	0.44	0.57	0.69	0.84	1.12	1.4	1.75	2.0	2.14	2.67	3.19	3.84	3.84	3.84	4.41	4.9	4.9	4.9	4.9	4.9	4.9
	25 N·m	0.55	0.73	0.86	1.05	1.4	1.75	2.11	2.5	2.67	3.33	3.99	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9

本品专利:
可调式电机组尼装置 (专利号: 200920199891.2)
带可调组尼装置的电机 (专利号: 200920199890.8)
交流电机 (1) (专利号: 200930145821.4)
交流电机 (YN80-94) (专利号: 200930156992.7)
交流电机 (YN80-40) (专利号: 200930156993.1)
交流电机 (YN80-24) (专利号: 200930156994.6)
交流电机 (带风叶) (专利号: 200930156995.0)

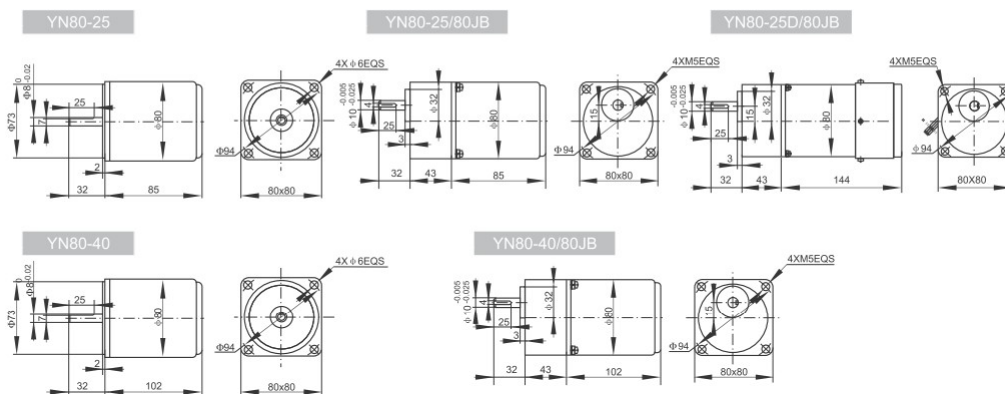
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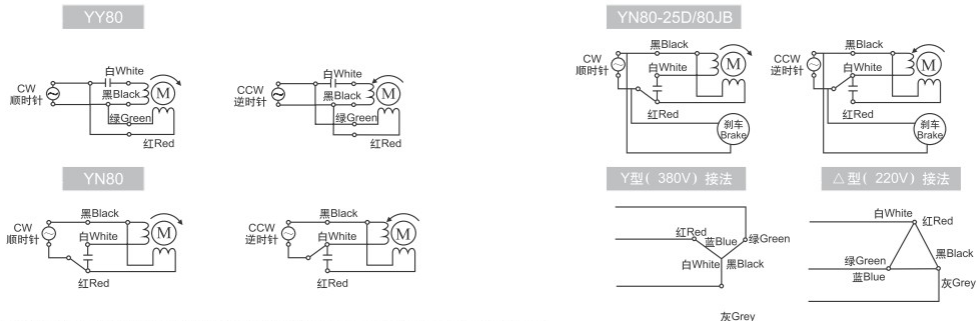
● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率	Voltage 电压	Frequency 频率	Current 电流	Starting Torque 启动力矩	Rated Speed 额定转速	Rated Torque 额定转矩	Capacitor 电容
		W	VAC	Hz	A	mN.m	r/min	mN.m	uF
YN80-25	4	25	Single-Phase 110	50	0.65	108	1250	194	7/250
YN80-25	4	25	Single-Phase 220	50	0.35	108	1250	194	2/450
YY80-25	4	25	Single-Phase 110	50	0.65	108	1250	194	6/250
YY80-25	4	25	Single-Phase 220	50	0.35	108	1250	194	1.5/450
Y80-25	4	25	Three-Phase 380	50	0.25	190	1250	194	/
Y80-25	4	25	Three-Phase 220	50	0.15	190	1250	194	/
YN80-40	4	40	Single-Phase 220	50	0.45	180	1250	300	3.5/450
YN80-40	4	40	Single-Phase 110	50	0.9	180	1250	300	14/250

● 外形尺寸 EXTERNAL DIMENSION



● 接线图 WIRING DIAGRAM



● 带减速度后允许负载 LOAD PERMISSIBLE WITH SPEED REDUCER

表列数字是根据电机同步运转的转速，在额定负载情况下实际输出转速为同步运转转速的80%-98%。浅灰色表示输出轴运转方向与电机转向相同，白色表示输出轴方向与电机出轴转向相反。
Note: Speed figures are based on synchronous speed. The actual output speed, under rated torque conditions, is about 2-20% less than synchronous speed, the grey background indicates output shaft of geared motor rotates in the same direction as output shaft of motor. The white background indicates rotating in the opposite direction.

同步转速 r/min	500	400	300	250	200	150	120	100	80	75	60	50	40	35	30	25	20	16	15	12	10	8	
减速比 Gear reduction ratio	3	3.6	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	
允许负载 Permissible load W	25	N·m	0.45	0.45	0.78	0.78	1.18	1.18	1.86	2.25	2.25	2.5	3.43	4.1	4.9	5.57	6.5	7.5	7.8	7.8	7.8	7.8	7.8

YN80

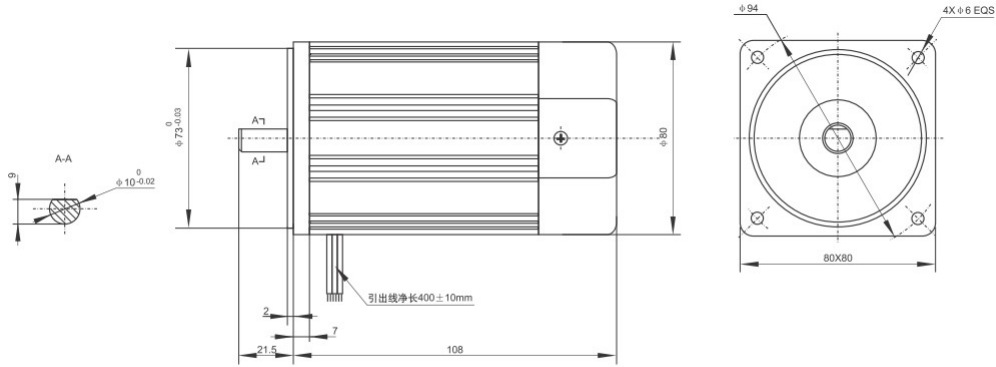
交流减速电机
AC Gear motor



● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 N.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 N.m	Capacitor 电容 μ F
YN80-110-25F-A	4	25	110	50	0.45	0.226	1250	0.19	8/250

● 外形尺寸 EXTERNAL DIMENSION



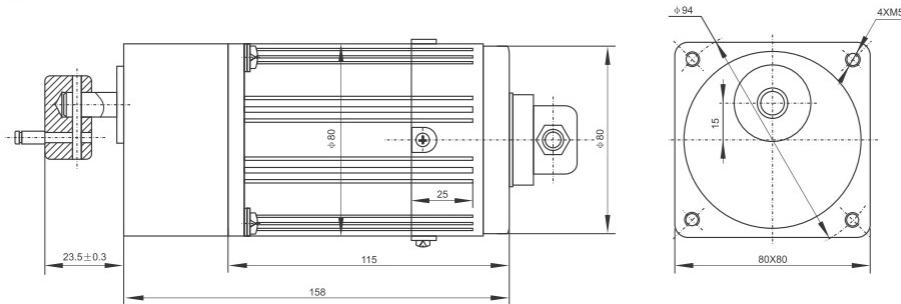
● 接线图 WIRING DIAGRAM



● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 MN.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 MN.m	Capacitor 电容 μ F
YN80-40/80JB6G1020	4	40	220	50	0.5	2.1	1250	1.83	5/450

● 外形尺寸 EXTERNAL DIMENSION



本品专利:
交流减速电机 (专利号: 200930145812.5)
交流电机 (YY90-250) (专利号: 200930156998.4)

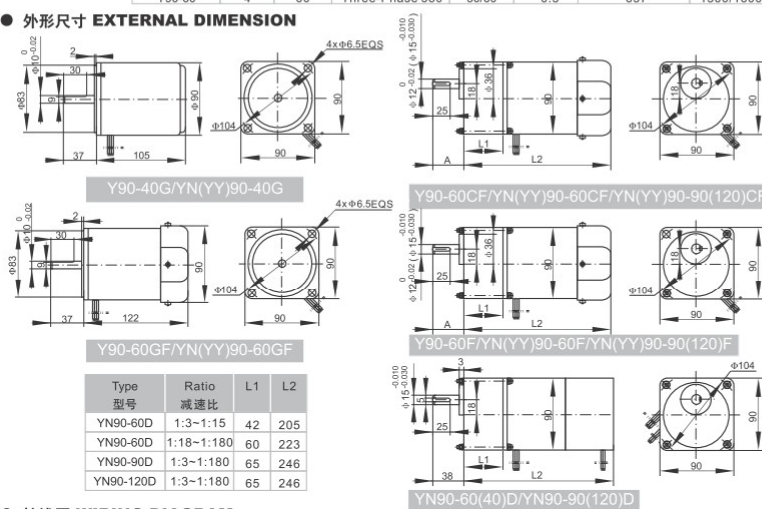
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● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 mN.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 mN.m	Capacitor 电容 uF
YY(YN)90-40	4	40	Single-Phase 220	50	0.45	215	1300	294	2.5/450
YY(YN)90-60	4	60	Single-Phase 110	50	1.2	343	1300	441	16/250
YY(YN)90-60	4	60	Single-Phase 220	50	0.6	343	1300	441	4/450
YY(YN)90-90	4	90	Single-Phase 110	50	2	490	1300	670	24/250
YY(YN)90-90	4	90	Single-Phase 220	50	1	490	1300	670	6/450
YY(YN)90-120	4	120	Single-Phase 110	50	2.4	637	1300	880	28/250
YY(YN)90-120	4	120	Single-Phase 220	50	1.2	637	1300	880	7/450
Y90-40	4	40	Three-Phase 220	50/60	0.35	392	1300/1600	294	/
Y90-40	4	40	Three-Phase 380	50/60	0.2	392	1300/1600	294	/
Y90-60	4	60	Three-Phase 220	50/60	0.5	637	1300/1600	441	/
Y90-60	4	60	Three-Phase 380	50/60	0.3	637	1300/1600	441	/

● 外形尺寸 EXTERNAL DIMENSION

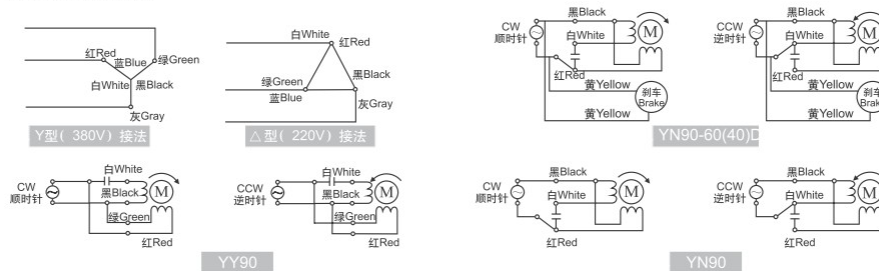


Type 型号	Ratio 减速比	L1	L2	A
Y90-60CF	1:3~1:15	42	178	32
Y90-60CF	1:18~1:180	60	196	32
YN90-90CF	1:3~1:180	65	218	38
YN90-120CF	1:3~1:180	65	218	38

Type 型号	Ratio 减速比	L1	L2	A
Y90-60F	1:3~1:15	42	165	32
Y90-60F	1:18~1:180	60	182	32
YN90-90F	1:3~1:180	65	202	38
YN90-120F	1:3~1:180	65	202	38

Type 型号	Ratio 减速比	L1	L2
YN90-60D	1:3~1:15	42	205
YN90-60D	1:18~1:180	60	223
YN90-90D	1:3~1:180	65	246
YN90-120D	1:3~1:180	65	246

● 接线图 WIRING DIAGRAM



● 带减速器后允许负载 LOAD PERMISSIBLE WITH SPEED REDUCER

表列数字是根据电机同步运转的转速，在额定负载情况下实际输出转速为同步运转转速的80%-98%。浅灰色表示输出轴转向与电机转向相同，白色表示输出轴与电机输出轴相反。
Note: Speed figures are based on synchronous speed. The actual output speed, under rated torque conditions, is about 2-20% less than synchronous speed, the grey background indicates output shaft of geared motor rotates in the same direction as output shaft of motor. The white background indicates rotating in the opposite direction.

同步转速 r/min	500	400	300	250	200	150	120	100	80	75	60	50	40	35	30	25	20	16	15	12	10	8
减速比 Gear reduction ratio	3	3.6	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180
允许负载 Permissible load W	40	N·m	0.72	0.72	1.18	1.18	1.76	2.35	2.9	3.5	3.85	4.3	5.4	6.5	6.5	8.5	9.8	9.8	9.8	9.8	9.8	9.8
	60	N·m	1.08	1.08	1.96	1.96	2.8	3.5	4.4	4.9	5.2	6.5	8.0	9.6	9.8	12.7	14.7	14.7	14.7	14.7	14.7	14.7

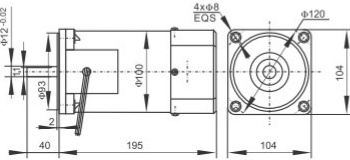


● 电机参数 SPECIFICATIONS

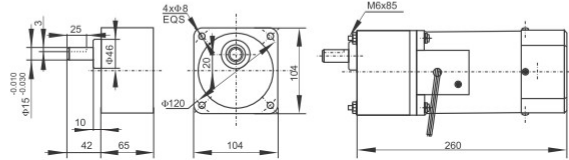
Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 mN.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 mN.m	Capacitor 电容 uF
YY100-120	4	120	Single-Phase 220	50	1.2	686	1300	882	8/250
YY100-140	4	140	Single-Phase 220	50	1.4	784	1300	1029	8/450
YY100-120	4	120	Single-Phase 110	50	2.3	686	1300	882	30/250
YY100-140	4	140	Single-Phase 110	50	2.6	784	1300	1029	30/450
YN100-120	4	120	Single-Phase 220	50	1.2	686	1300	882	8/250
YN100-140	4	140	Single-Phase 220	50	1.4	784	1300	1029	8/450
YN100-120	4	120	Single-Phase 110	50	2.3	686	1300	882	30/250
YN100-140	4	140	Single-Phase 110	50	2.6	784	1300	1029	30/450
Y100-140	4	140	three-Phase 220	50	0.83	1470	1300	1029	/
Y100-140	4	140	three-Phase 380	50	0.48	1470	1300	1029	/
YN100-200CF/104JB	4	200	220	50	2.5	600	1250	1500	12/450

● 外形尺寸 EXTERNAL DIMENSION

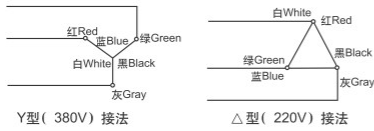
Y100-120(140)
YY100-120(140)
YN100-120(140)无减速电机



Y100-120(140)
YY100-120(140)
YN100-120(140)减速电机



● 接线图 WIRING DIAGRAM



● 带减速器后允许负载 LOAD PERMISSIBLE WITH SPEED REDUCER

表列数字是根据电机同步运转的转速，在额定负载情况下实际输出转速为同步运转转速的80%-98%。浅灰色表示输出轴运转方向与电机转向相反，白色表示输出方向与电机转向相反。
 Note: rpm figures are based on synchronous speed. The actual output speed, under rated torque conditions, is about 2-20% less than synchronous speed, the grey background indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. The white background indicates rotating in the opposite direction.

同步转速 r/min	500	400	300	250	200	150	120	100	80	75	60	50	40	35	30	25	20	16	15	12	10	8	
减速比 Gear reduction ratio	3	3.6	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	
允许负载 Permissible load W	120 N·m	2.16	2.16	3.92	3.92	5.6	7.0	8.8	9.8	10.4	13	16	19	19.6	25	29	33	39	39	39	39	39	39
	140 N·m	2.48	2.48	4.51	4.51	6.6	8.1	10	11.2	12	15	18.4	22	22.5	29.3	34	38	44	44	44	44	44	44

YY70

交流减速电机
AC Gear motor

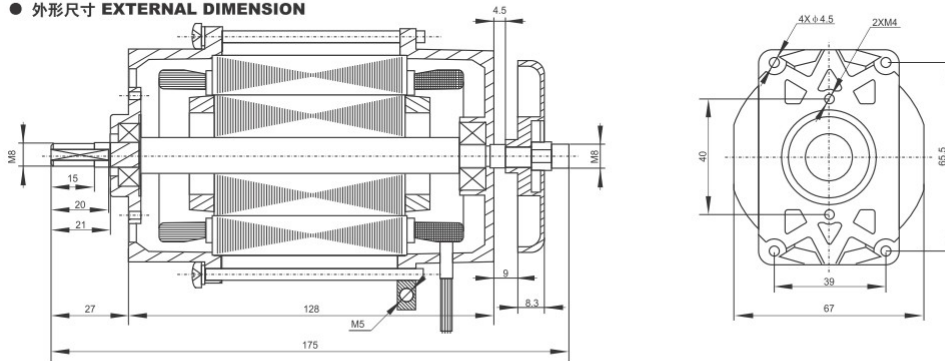
本品专利:
交流电机 (YY70-85) (专利号: 200930156997.X)



● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 N.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 N.m	Capacitor 电容 μF
YY70-120-85	4	85	120	60	1.35	0.22	2800	0.28	7

● 外形尺寸 EXTERNAL DIMENSION



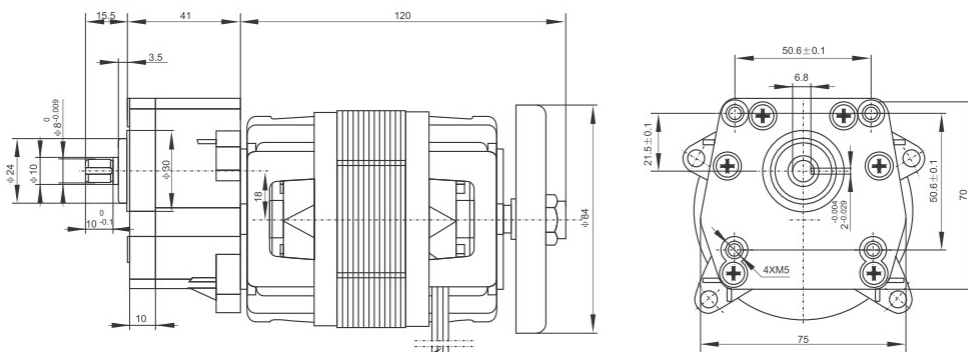
● 接线图 WIRING DIAGRAM



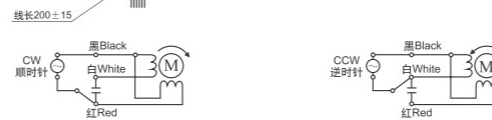
● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 mN.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 mN.m	Capacitor 电容 μF
YN80-24-C/74JB3G1016	4	24	220	50	0.32	0.8	500	0.5	3/450

● 外形尺寸 EXTERNAL DIMENSION



● 接线图 WIRING DIAGRAM



YN80/74JC

交流减速电机
AC Gear motor

YY90

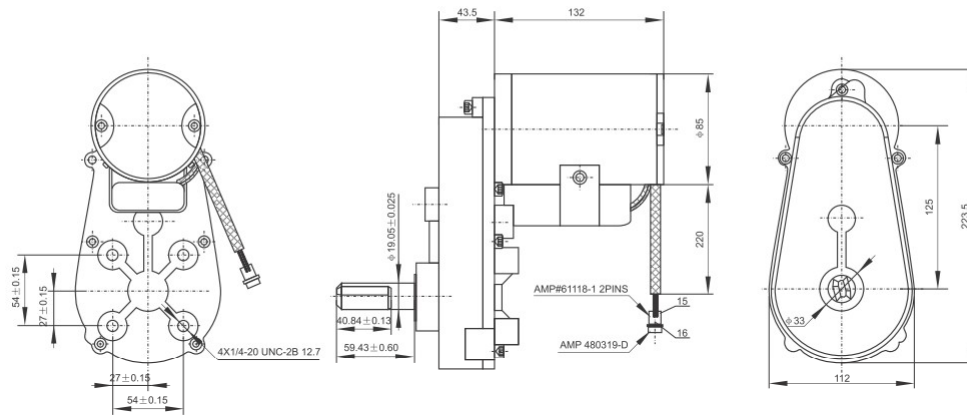
交流减速电机
AC Gear motor



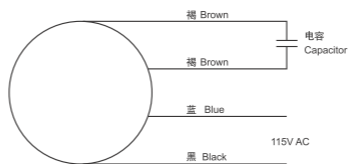
● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 N.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 N.m	Capacitor 电容 μ F
YY90-100/112JC267G1960	4	100	115	60	2	100	5.7	160	20/370

● 外形尺寸 EXTERNAL DIMENSION



● 接线图 WIRING DIAGRAM



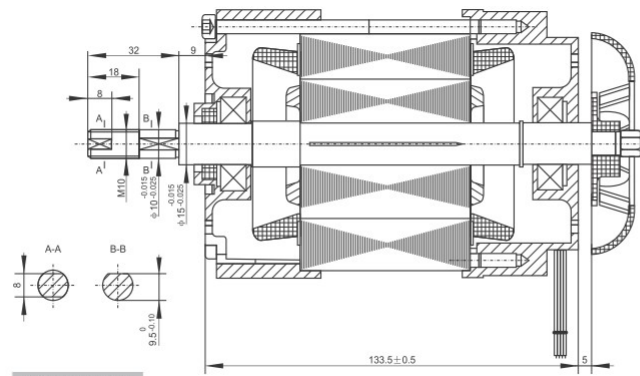
本品专利：
交流电机 (YY90-250) (专利号: 200930156998.4)



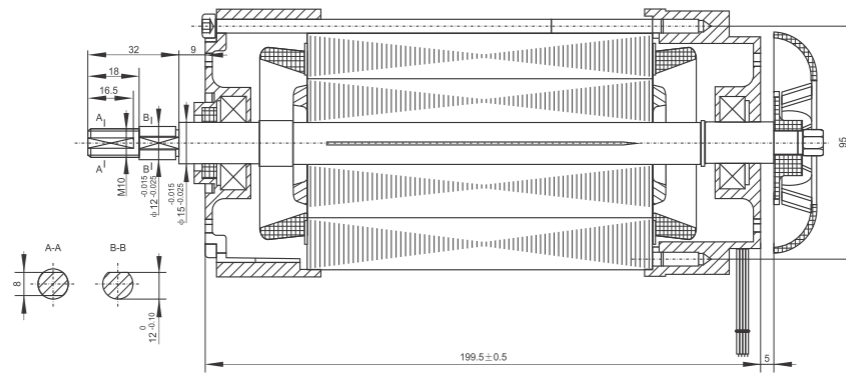
● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 N.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 N.m	Capacitor 电容 μ F/V
YY90-120-250	4	250	120	60	3.7	0.11	3480	0.68	12/250
YY90-120-550	4	550	120	60	6.3	0.25	3430	1.5	20/250

● 外形尺寸 EXTERNAL DIMENSION



YY90-120-250



YY90-120-550

● 接线图 WIRING DIAGRAM



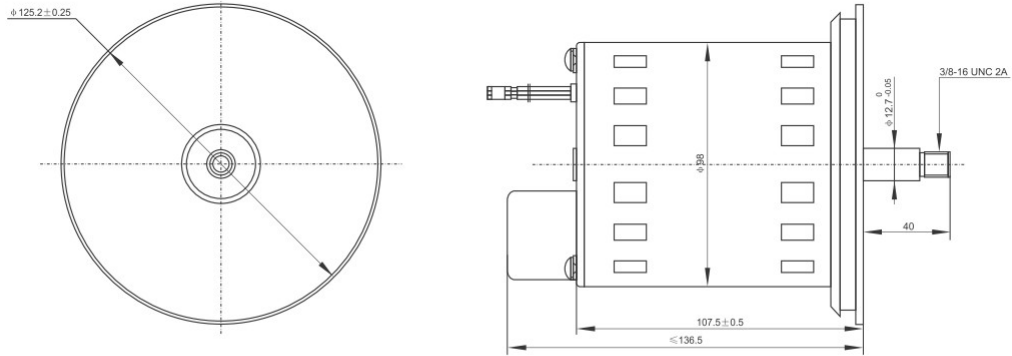
YY100

交流减速电机
AC Gear motor

● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 mN.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 N.m	Capacitor 电容 μF
YY100-120-355	4	355	120	60	3	0.4	3025	1.0	24

● 外形尺寸 EXTERNAL DIMENSION



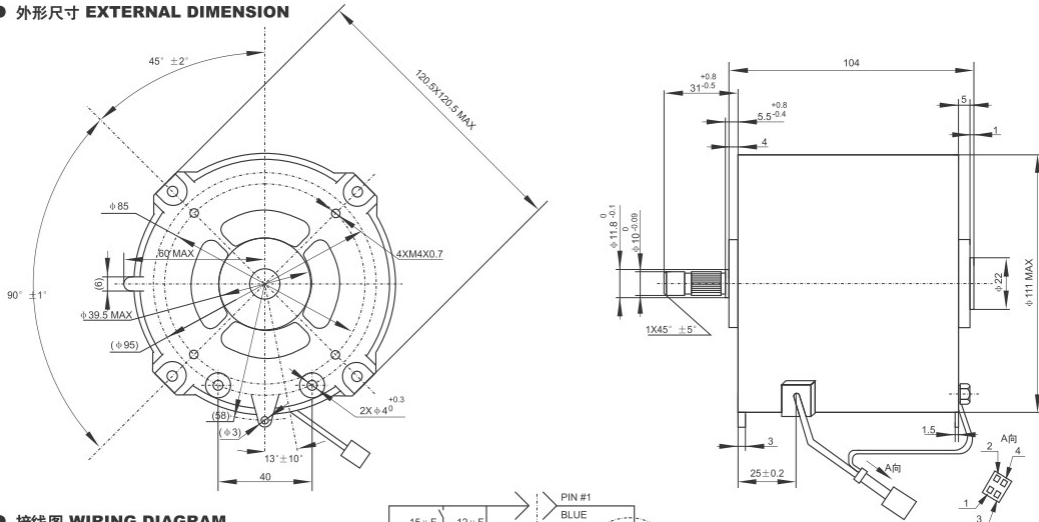
YY110

交流减速电机
AC Gear motor

● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power 功率 W	Voltage 电压 VAC	Frequency 频率 Hz	Current 电流 A	Starting Torque 启动力矩 MN.m	Rated Speed 额定转速 r/min	Rated Torque 额定转矩 N.m	Capacitor 电容 μF
YY110-85G	4	85	110	50	1.6		1300	0.65	6/370

● 外形尺寸 EXTERNAL DIMENSION



● 接线图 WIRING DIAGRAM

本品专利:
交流电机 (4) (专利号: 200930145817.8)

YY120

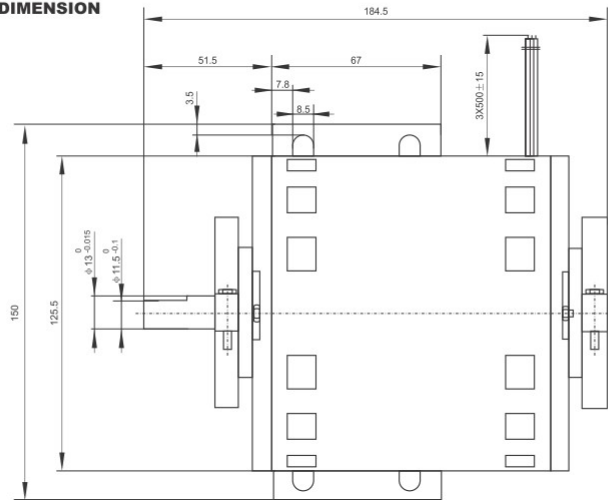
交流
减
速
电
机
AC
Gear
motor



● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power	Voltage	Frequency	Current	Starting Torque	Rated Speed	Rated Torque	Capacitor
		功率 W	电压 VAC	频率 Hz	电流 A	启动力矩 MN.m	额定转速 r/min	额定转矩 N.m	电容 μ F
YY120-200	4	200	115	60			1050	0.65	60/250

● 外形尺寸 EXTERNAL DIMENSION



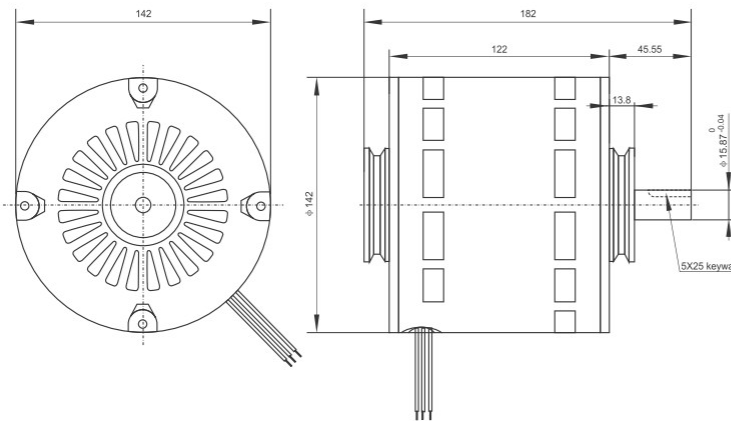
YY140

交流
减
速
电
机
AC
Gear
motor

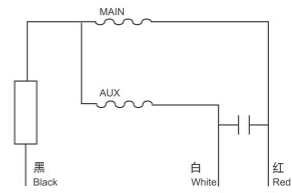
● 电机参数 SPECIFICATIONS

Type 型号	Poles 极数	Power	Voltage	Frequency	Current	Starting Torque	Rated Speed	Rated Torque	Capacitor
		功率 W	电压 VAC	频率 Hz	电流 A	启动力矩 mN.m	额定转速 r/min	额定转矩 N.m	电容 μ F
YY140-200	6	250	115	60	3.4	1.0	1100	2.17	50/450

● 外形尺寸 EXTERNAL DIMENSION



● 接线图 WIRING DIAGRAM

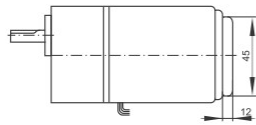


● 调速电机参数 SPEED CONTROL MOTORS

	极数 No. of P	型号 Type	功率 Power W	电压 Voltage V	频率 Frequency Hz	调速范围 Speed scope r/min	速度稳定率 Speed stability %	额定转矩 Rated torque mN·m		启动转矩 Starting torque mN·m	电容 Capacitor μ F/V AC
								90r/min	1200r/min		
感应电机 Induction Motor	4	YY80-25	25	220	50	90~1400	±5 (参考值) (Ref)	45	150	108	1.5/450
		YY90-40	40					60	250	215	2.5/450
		YY90-60	60					100	420	343	4/450
可逆电机 Reversible Motor	4	YN60-4	4					25	45	27.4	0.8/450
		YN60-6	6					28	75	47	0.8/450
		YN70-10	10					30	80	64.7	1/450
		YN70-15	15					35	90	98	1.5/450
		YN70-20	20					40	105	103	1.8/450
		YN70-25	25					45	120	108	2.0/450
		YN80-25	25					45	150	108	2.0/450
		YN90-40	40					60	250	215	2.5/450
		YN90-60	60					100	420	343	4/450
		YN90-90	90					120	600	490	6/450
		YN100-120	120					150	850	686	8/450
YN100-140	140	160	1000	784	8/450						

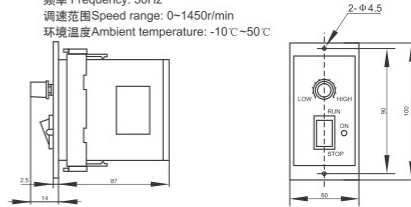
● 外形尺寸 EXTERNAL DIMENSION

电机 Motor ★4W★6W★10W★15W★25W★40W★60W★90W★120W★140W



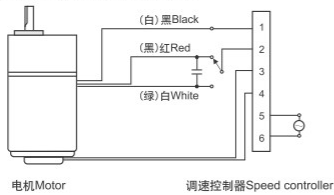
调速控制器 Speed controller

型号 Type: Ns52
电压 Voltage: AC220V
频率 Frequency: 50Hz
调速范围 Speed range: 0~1450r/min
环境温度 Ambient temperature: -10℃~50℃

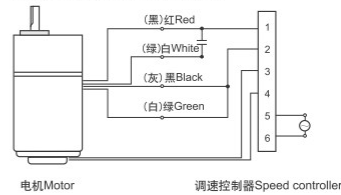


● 接线图 WIRING DIAGRAM

YN型可逆电机 Reversible motor



YY型可逆电机 Induction motor



★术语解释 EXPLANATION OF TECHNICAL TERMS

一、功率

电机的功率可由转速、转矩决定:

$$P = \frac{T \cdot n}{9750} \quad (W) \quad \begin{matrix} T\text{-转矩 (mN.m)} \\ n\text{-转速} \end{matrix}$$

二、额定输出功率

额定输出功率由额定转矩、额定转速决定。

■同步转速

同步转速由电机的频率和极数决定: (如图中①所示)

$$n = \frac{120f}{p} \quad (r/min) \quad \begin{matrix} f\text{-电源频率 (Hz)} \\ p\text{-极数} \end{matrix}$$

■空载转速

空载转速为电机在无负载时的转速(如图中②所示)

■额定转速

额定转速为电机在额定输出功率时所确定的转速(如图中③所示)

三、转矩

■启动转矩

启动转矩为电机在额定电压、频率作用下,在启动瞬间所输出的转矩(如图中⑥所示),启动时如静态负载大于启动负载电机无法运转。

■最大转矩

最大转矩为电机在额定电压、频率作用下产生的最大输出转矩(如图中④所示),负载转矩如超出最大转矩,电机将被堵转。

■额定负载转矩

电机在额定电压、频率、额定转速时所输出的转矩(如图中⑤所示)

四、运行状态

为了保证电机温升的控制,确定了连续运行状态和短时运行状态。

■连续运行状态

电机在额定电压、频率下,允许连续运行,并保证电机工作安全、可靠。

■短时运行状态

电机在额定电压、频率下,允许30分钟连续运行,并保证电机工作安全、可靠。

五、减速器

■减速比

减速比是减速器输出轴转速与电机出轴转速之比。

■传动效率

减速器与电动机连接后,转矩增加时的效率,用%来表示。其大小受轴承、齿轮的摩擦及润滑因素影响。

一般经过一级传动其效率约90%,经二级传动时为81%,速比越大其传动级数越多,传动效率就下降。

■最大许用转矩

减速器所能承受的最大负荷转矩。其大小因受齿轮、轴承的材质、减速比等因素影响而有所不同。

■许用悬吊载荷

减速器所允许承受的垂直于输出轴载荷的最大值。其值因减速器型号及悬吊于轴端的距离有所不同。

■许用推动载荷

减速器输出轴所能承受的最大水平推力载荷,因减速器的型号有所不同。

1. Output power

It depends on the speed and torque

$$P = \frac{T \cdot n}{9750} \quad (W) \quad \begin{matrix} T\text{-torque (mN.m)} \\ n\text{-speed (r/min)} \end{matrix}$$

2. Rated output power

It depends on the rated torque and speed

■ Synchronous speed

It depends on the frequency of the power supply and the number of poles of the motor, (See diagram A point 1)

$$n = \frac{120f}{p} \quad (r/min) \quad \begin{matrix} f\text{-frequency} \\ p\text{-number of poles} \end{matrix}$$

■ No load speed

It is the speed under motor shaft no load rotates.

(See diagram A point 2)

■ Rated speed

This speed is measured under the condition of rated output power.(See diagram A point 3)

3. Torque

■ Starting torque

This torque is measured under the condition of rated voltage and frequency at the moment of starting.(See diagram A point 6).

■ Maximum torque

It is the largest torque a motor can generate under rated voltage and frequency. (See diagram A point 4)

■ Rated torque

It is measured under rated voltage, frequency and speed. (See diagram A point 5)

4. Running status

A motor is allowed to run continuously or intermittently depending on its permissible temperature rise to ensure safety and reliability.

■ Continuous run

A motor is allowed to run continuously under rated voltage and frequency.

■ Intermittent run

A motor is allowed to run continuously for 30 minutes at a time under rated voltage and frequency.

5. Gear head

■ Reduction ratio

It is the ratio of the speed of the output shaft of the gear head to the speed of the output shaft of the motor.

■ Transmission efficiency

It depends on the friction of bearings and gears, and on Lubrication. For a transmission of single stage, the efficiency is usually 90%, and 81% for two stages, the more the stages, the lower the efficiency.

■ Max. permissible torque

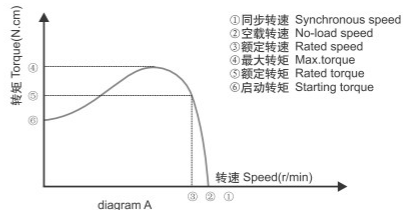
It depends on materials for gear and bearing and on reduction ratio.

■ Permissible pendent load

It varies from one gear head and measuring point to another.

■ Permissible thrust load

It varies from one gear head to another.



★齿轮减速器概要 **OUTLINE OF SPEED REDUCER**

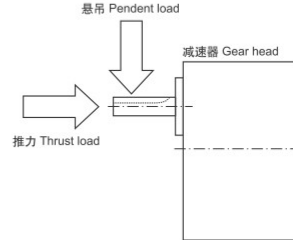
本公司生产的齿轮减速器，采用高精度的螺旋齿轮，并配油封、O型环密封式齿轮箱，采用润滑油浴润滑方式，具有噪音低、使用寿命长、体积小、功率大等特点。

The reduction gear employs high precise spire gear, oil seal, O-type annular sealed gear box, and adopted grease lubrication and with the property of low-noise, long-using life, small volume, high-power etc.

★减速比有1/3~1/180范围内20余个阶段。
There are approx 20 stages from 1/3 to 1/180 of the reduction ratio.

- ★含油轴承型齿轮减速器
Gear head with oil metal
- 适用每天5小时以内，轻度负载的运转。
5 Hours/day or shorter and light loading.
 - 适用于短时间运转。
Short-time operation.

- ★滚珠轴承型齿轮减速器
Gear head with Ball Bearing
- 适用每天5小时以上的运转。
5Hours/day or longer operation.
 - 适用于连续运转。
Continuous Operation.



★减速器最大许用悬吊载荷及许用推力载荷 Max permissible torque pendent load and thrust load

型号 Type	最大允许转矩 Max permissible torque Kg · cm	允许悬载负荷 Permissible pendent load kg		允许推力负荷 Permissible thrust load Kg
		在轴前端10mm处 Measuring point of 10mm from th end	在轴前端20mm处 Measuring point of 20mm from th end	
60JB	29	12	8	3
70JB	50	15	10	4
80JB	80	25	15	5
90JB	100	45	30	10
	200	60	40	15
104JB	450	80	60	20

★减速器的传动效率 Efficiencies for gear head

轴承 Bearing	型号/减速比 Type/Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
		滚珠 轴承 Ball bearing	60JB	81%					73%					66%					59%		
70JB	81%					73%					66%										
80JB	81%					73%					66%										
90JB	81%					73%					66%										
104JB	81%					73%					66%										
含油 轴承 Oil metal	60JB	68%					63%					58%					56%				
	70JB	68%					63%					58%									
	80JB	68%					63%					58%									
	90JB	68%					63%					58%									
	104JB	68%					63%					58%									