



杭州安久传动有限公司

Hangzhou Ang Drive Co., Ltd.

Add: No. 888, Shixinzhong Road, Xiaoshan,
Hangzhou, China

Zip Code: 311201

Tel: 0086 571 82101305

Email: info@angdrive.com

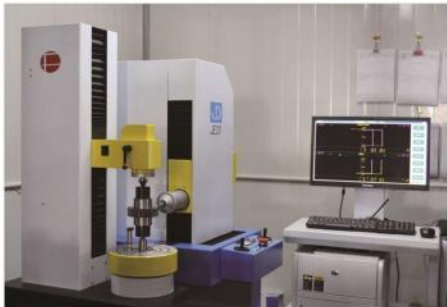


交流减速电机 AC GEAR MOTOR

杭州安久传动有限公司
Hangzhou ANG Drive Co.,Ltd.

我們立足于長期的精心科研和先進的管理理念，利用精良的生產和檢測設備，以高品質的產品和完善周到的服務爭取市場，幫助客戶在全球範圍內取得成功。

Based on constant research, advanced management, sophisticated production and testing equipment, we develop market with high-quality products and thoughtful service, so as to help customers achieve success all over the world.



企業簡介

杭州安久傳動有限公司主要經營交流與直流電機、減速機、控制器以及相關傳動產品。

公司嚴格執行質量管理體系，從開發設計，原料採購，進料檢驗、一貫化制程到成品包裝出貨，皆層層嚴格把關，期望為廣大客戶提供高性能、低成本、更適合的專業傳動方案。

我們堅持優質產品、優質服務，為客戶創造價值，讓客戶滿意。

ANG Drive is specialized in AC & DC motor, gearbox, controller and related components.

The company strictly implements the quality management system, from design & development, raw material procurement, incoming inspection, consistent process to the finished product packaging & delivery, and expects to provide our customers with high performance, competitive price and more suitable transmission solutions.

We insist on high-quality products and services to create value for customers and satisfy customers.

目錄

CATALOG



平行軸微型減速電機
Parallel Shaft Micro Gear Motor

1-23



直角軸微型減速電機
Right Angle Micro Gear Motor

24-43



微型電機附件
Accessories of Micro Motor

44-47



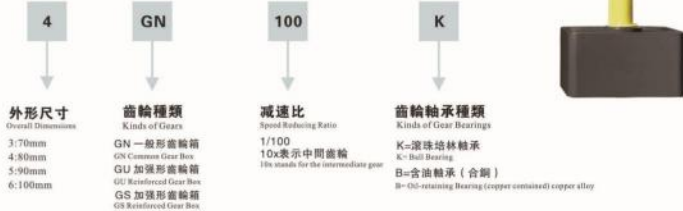
AH/AV小型減速電機
AH/AV Small Gear Motor

48-80

交流馬達型號之選定 The selection for AC motor



齒輪型號之選定 The selection for gearbox



安久產品模塊化組合體系 MODULAR COMBINED SYSTEM OF ANG PRODUCT



6/10W

□60mm



電機特性

List of motor characteristics

電機型號 Motor model	規格 Specs	輸出功率 Output Power W	電源電壓 Voltage V	頻率 Frequency Hz	電流 Current A	起動扭矩 Starting Torque mN.m gf.cm	額定扭矩 Rated Torque mN.m gf.cm	額定轉速 Rated Speed Revolution r/min	電容量/耐壓 Capacity/Ve μF/VAC		
A21K6GN-C A21K6A-C	感應 Induction	6	單相 1 phase 220	50	0.13	60	600	46	460	1200	0.8μF/450V
A21K6GN-A A21K6A-A			60	0.14	50	500	41	410	1450	0.8μF/450V	
A21K10GN-C A21K10A-C		10	單相 1 phase 220	50	0.24	60	600	46	460	1200	3.5μF/250V
			60	0.25	50	500	41	410	1450	3.5μF/250V	
A21K10GN-A A21K10A-A		10	單相 1 phase 220	50	0.18	97	970	82	820	1200	1μF/450V
			60	0.16	81	810	69	690	1450	1μF/450V	
A21K10GN-A A21K10A-A		10	單相 1 phase 110	50	0.31	97	970	82	820	1200	3.5μF/250V
			60	0.28	81	810	69	690	1450	3.5μF/250V	

- 上述參數是指電機單獨，不附加任何負載裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

Allowable load for the gear motor

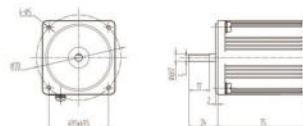
減速參數 Geared-down parameter	同步轉速/n Synchronous speed	減速比 ratio																							
		3	3.6	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
最大允許負載 Max allowable load	6W	kg.cm	1.2	1.4	2	2.4	3	4	4.9	5.5	6.5	7.3	9.1	11	13	15	16.7	20.1							25
		Nm	0.12	0.14	0.2	0.24	0.3	0.4	0.49	0.55	0.65	0.73	0.91	1.1	1.3	1.5	1.67	2.01							2.5
	10W	kg.cm	2	2.4	3.3	4	5	6.6	8.2	9.9	11	12	15	18	22	24							25		
		Nm	0.2	0.24	0.33	0.4	0.5	0.66	0.82	0.99	1.1	1.2	1.5	1.8	2.2	2.4							2.5		

- 轉速是以電機機的同步轉速為基準除以減速比而算出的數值。實際轉速與最大電流變化而比所示數值減少2~15%左右。
- 希望比於上述的減速比進一步減速時，可在電機機與減速機之間安裝減速比為10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，並有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

圓軸型

Circular shaft type

A21K6A-A
A21K6A-C
A21K6A-Y



結構：電機機 Structure: Electric motor
重量：0.75kg Weight: 0.75kg

定速型

Fixed speed type

齒輪品名

2GN□□

A21K6GN-A
A21K6GN-C
A21K6GN-Y

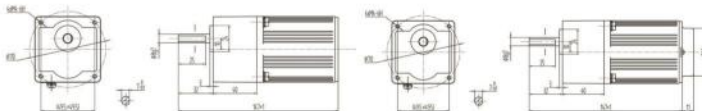
調速型

Speed regulation type

齒輪品名

2GN□□

A21K6RGN-A
A21K6RGN-C
A21K6RGN-Y



結構：減速機+電機機
重量：1.15kg
減速比：1:3-1:200
Structure: Reducer+Electric motor
Weight: 1.15kg
Speed Reducing Ratio: 1:3-1:200

結構：減速機+電機機+調速器
重量：1.25kg
減速比：1:3-1:200
Structure: Reducer+Electric motor+speed governor
Weight: 1.25kg
Speed Reducing Ratio: 1:3-1:200

15/20W

□70mm



电机特性

List of motor characteristics

电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque		额定转矩 Rated Torque		额定转速 Rated Revolution r/min	容量系数 Capacity Vc
						m.N.m	g.f.cm	m.N.m	g.f.cm		
A31K15GN-C	感应 Induction	15	单相 1-phase 220	50	0.15	143	1430	115	1150	1250	1.2/450
A31K15A-C	可逆 Reversible			60	0.14	120	1200	95.5	955	1500	1.2/450
A31K15GN-C	可逆 Reversible			50	0.16	187	1870	150	1500	1250	1.5/450
A31K15A-C	可逆 Reversible	60	0.18	158	1580	127	1270	1500	1.5/450		
A31K15GN-A	感应 Induction	15	单相 1-phase 110	50	0.33	143	1430	115	1150	1250	5/250
A31K15A-A	可逆 Reversible			60	0.30	120	1200	95.5	955	1500	5/250
A31K15GN-A	可逆 Reversible			50	0.36	187	1870	150	1500	1250	6/250
A31K15A-A	可逆 Reversible	60	0.38	158	1580	127	1270	1500	6/250		
A31K15GN-U	—	15	三相 3-phase 380	50	0.06	143	1430	115	1150	1250	—
A31K15A-U	—			60	0.055	120	1200	95.5	955	1500	—
A31K15GN-S	—			50	0.1	143	1430	115	1150	1250	—
A31K15A-S	—	60	0.1	120	1200	95.5	955	1500	—		
A31K20GN-C	感应 Induction	20	单相 1-phase 220	50	0.22	187	1870	150	1500	1250	2/450
A31K20A-C	可逆 Reversible			60	0.22	158	1580	127	1270	1500	2/450
A31K20GN-C	可逆 Reversible			50	0.26	187	1870	150	1500	1300	2.5/450
A31K20A-C	可逆 Reversible	60	0.28	158	1580	127	1270	1550	2.5/450		
A31K20GN-A	感应 Induction	20	单相 1-phase 110	50	0.45	187	1870	150	1500	1250	8/250
A31K20A-A	可逆 Reversible			60	0.46	158	1580	127	1270	1500	8/250
A31K20GN-A	可逆 Reversible			50	0.54	187	1870	150	1500	1300	10/250
A31K20A-A	可逆 Reversible	60	0.58	158	1580	127	1270	1550	9/250		

▲ 上表参数指电机单独使用, 不附加任何负载。
● 电机额定转速、额定电流允许在±5%范围内调整。

● Parameters in above table refer to motor alone, without any load device.
● Permissible change in rated speed and rated current of the motor is within the range of ±5%.

减速电机允许负载

Allowable load for the gear motor

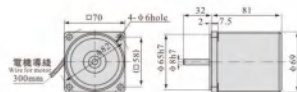
减速参数 Gear-down parameter	同步转速r/m Synchronous speed	减速比 ratio																							
		3	5	6	7.5	10	12.5	15	20	25	30	36	40	45	50	60	75	100	120	150	180	200	250	300	
最大允许负载 Max allowable load	15W	kg.cm	2.86	4.81	5.67	7.51	9.46	11.8	14.7	17	21.5	25.5	30.6	34.1	39.27	47.1	—	—	—	—	—	—	—	—	—
		N.m	0.28	0.48	0.56	0.75	0.93	1.18	1.47	1.67	2.15	2.55	3.01	3.41	3.92	4.7	—	—	—	—	—	—	—	—	—
20W	kg.cm	3.53	5.90	7.56	8.74	12.46	14.5	17.1	22.6	26.1	30.4	40.8	45.5	—	—	—	—	—	—	—	—	—	—	—	
	N.m	0.35	0.58	0.75	0.87	1.24	1.45	1.71	2.23	2.61	3.04	4.01	4.4	—	—	—	—	—	—	—	—	—	—	—	

- 转速是以电机的同步转速为基础除以减速比计算出的数值, 实际转速随负载大小变化而有所数值减少2~15%左右。
- 希望以大于上表的减速比进一步减速时, 可在电动机与减速机之间安装减速比10的中阻减速机。
- 需负载恒转矩或减速电机最大允许负载转矩, 并有堵转情况存在时, 请在减速机输出轴和负载连接处加装扭矩限制装置, 确保电机减速正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in±2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

圆轴型

Circular shaft type

A31K15A-A A31K15A-A
A31K15A-C A31K15A-C
A31K15A-Y A31K15A-Y



结构: 电动机
重量: 1.1kg

Structure: Electric motor
Weight: 1.1kg

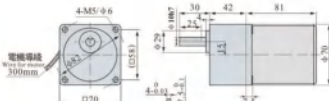
定速型

Fixed speed type

齿轮品名

Name of Gear 3GN□K

A31K15GN-A A31K15GN-A
A31K15GN-C A31K15GN-C
A31K15GN-CZ A31K15GN-CZ
A31K15GN-Y A31K15GN-Y



结构: 减速机+电动机
重量: 1.6kg
减速比: 1:3~1:250
Structure: Reducer+Electric motor
Weight: 1.6kg
Speed Reducing Ratio: 1:3~1:250

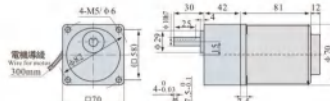
调速型

Speed regulation type

齿轮品名

Name of Gear 3GN□K

A31K15RGN-A A31K15RGN-A
A31K15RGN-C A31K15RGN-C



结构: 减速机+电动机+调速器
重量: 1.7kg
减速比: 1:3~1:250
Structure: Reducer+Electric motor+Speed governor
Weight: 1.7kg
Speed Reducing Ratio: 1:3~1:250

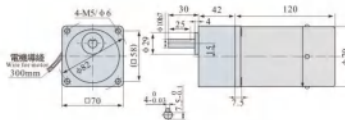
刹车定速型

Brake fixed speed type

齿轮品名

Name of Gear 3GN□K

A31K15GN-AM A31K15GN-AM
A31K15GN-CM A31K15GN-CM
A31K15GN-YM A31K15GN-YM



结构: 减速机+电动机+刹车器
重量: 1.9kg
减速比: 1:3~1:250
Structure: Reducer+Electric motor+Brake
Weight: 1.9kg
Speed Reducing Ratio: 1:3~1:250

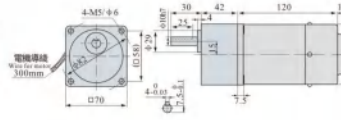
刹车调速型

Brake speed regulation type

齿轮品名

Name of Gear 3GN□K

A31K15RGN-CM A31K15RGN-CM
A31K15RGN-AM A31K15RGN-AM



结构: 减速机+电动机+刹车器+调速器
重量: 2.0kg
减速比: 1:3~1:250
Structure: Reducer+Electric motor+Brake+Speed governor
Weight: 2.0kg
Speed Reducing Ratio: 1:3~1:250

90/120W

□90mm

电机特性

List of motor characteristics



电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque mNm g.f.cm	额定转矩 Rated Torque mNm g.f.cm	额定转速 Rated Revolution r/min	容量系数/阻 Capacity/Re
A51K90GU-CF A51K90A-CF	感应 Induction	90	单相 1-phase 220	50	0.62	837 837.0	670 6700	1350	5/450
A51K90GU-CF A51K90A-CF	可逆 Reversible			60	0.60	692 692.0	554 5540	1550	5/450
A51K90GU-AF A51K90A-AF	感应 Induction	90	单相 1-phase 110	50	1.25	837 837.0	670 6700	1350	20/250
A51K90GU-AF A51K90A-AF	可逆 Reversible			60	1.2	692 692.0	554 5540	1550	18/250
A51K90GU-UF A51K90A-UF	—	90	三相 3-phase 380	50	1.38	837 837.0	670 6700	1350	24/250
A51K90GU-UF A51K90A-UF	可逆 Reversible			60	1.5	692 692.0	554 5540	1550	24/250
A51K90GU-SF A51K90A-SF	—	90	三相 3-phase 220	50	0.32	837 837.0	670 6700	1350	—
A51K90GU-SF A51K90A-SF	—			60	0.3	692 692.0	554 5540	1500	—
A51K120GU-CF A51K120A-CF	感应 Induction	120	单相 1-phase 220	50	0.85	1137 1137.0	910 9100	1350	6/450
A51K120GU-CF A51K120A-CF	可逆 Reversible			60	0.82	955 955.0	764 7640	1500	6/450
A51K120GU-AF A51K120A-AF	感应 Induction	120	单相 1-phase 110	50	0.95	1137 1137.0	910 9100	1350	8/450
A51K120GU-AF A51K120A-AF	可逆 Reversible			60	1.0	955 955.0	764 7640	1500	8/450
A51K120GU-UF A51K120A-UF	—	120	三相 3-phase 380	50	1.7	1137 1137.0	910 9100	1350	24/250
A51K120GU-UF A51K120A-UF	—			60	1.65	955 955.0	764 7640	1500	24/250
A51K120GU-SF A51K120A-SF	—	120	三相 3-phase 220	50	0.34	1137 1137.0	910 9100	1350	—
A51K120GU-SF A51K120A-SF	—			60	0.31	955 955.0	764 7640	1500	—

- 上表参数是指电机空载，不附加任何负载量。
- 电机额定转速，额定电流允许在 ±5% 范围内变动。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

减速电机允许负载

Allowable load for the gear motor

减速参数 Gear-down parameter	同步转速/r/min Synchronous speed	500 300 250 200 150 120 100 75 60 50 45 37.5 30 25 20 15 12.5 10 8 7.5 6 5 3																			
		500 300 250 200 150 120 100 75 60 50 45 37.5 30 25 20 15 12.5 10 8 7.5 6 5 3																			
最大允许负载 Max allowable load	120W	kg.cm	15.7	26.5	31.5	39.4	52.5	65.7	71	94.6	118	141	170	189							200
		N.m	1.54	2.6	3.1	3.86	5.15	6.44	6.96	9.28	11.6	13.9	16.7	18.5							19.6
90W	kg.cm	21.5	36	42	54	70	87.7	98	126	148	189							200			
	N.m	2.11	3.52	4.13	5.28	6.88	8.58	9.6	12.4	14.5	18.5							19.6			

- 转速是指电机的同步转速除以减速比再算出的数值。实际转速随负载大小变化而比所示数值减少 2~15% 左右。
- 若要以大于上表的减速比进一步减速时，可在电机轴与减速机之间安装减速比高于 10 的中间增速器。
- 若负载轴短轴减速机额定力矩大于负载轴时，请在减速机短轴和负载轴两端加装扭矩限制装置，确保在启动或停止正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes or less than the values shown in 2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gears.

定速型

Fixed speed type

齿轮品名

Name of Gear

5G□K

A51K90(120)GU-AF A51K90(120)GU-UF
A51K90(120)GU-CF A51K90(120)GU-SF
A51K90(120)GU-UFYF A51K90(120)GU-UFYF
A51K90(120)GU-SF A51K90(120)GU-SF

刹车定速型

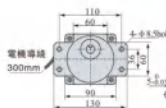
Brake fixed speed type

齿轮品名

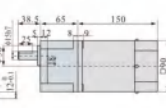
Name of Gear

5G□K

A51K90(120)GU-AFM A51K90(120)GU-CFM
A51K90(120)GU-UFM A51K90(120)GU-SFM
A51K90(120)GU-UFM A51K90(120)GU-SFM



电机外径
300mm



结构：减速器+电动机

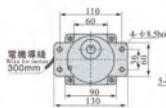
Structure: Reducer+Electric motor

重量：4.4kg

Weight: 4.4kg

减速比：1:3~1:500

Speed Reducing Ratio: 1:3~1:500



电机外径
300mm

结构：减速器+电动机+刹车器

Structure: Reducer+Electric motor+Brake

重量：4.9kg

Weight: 4.9kg

减速比：1:3~1:500

Speed Reducing Ratio: 1:3~1:500

调速型

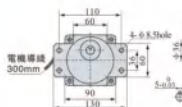
Speed regulation type

齿轮品名

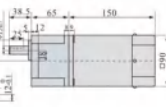
Name of Gear

5G□K

A51K90(120)RGU-AF A51K90(120)RGU-UF
A51K90(120)RGU-CF A51K90(120)RGU-CF



电机外径
300mm



结构：减速器+电动机+调速器

Structure: Reducer+Electric motor+Speed governor

重量：4.5kg

Weight: 4.5kg

减速比：1:3~1:500

Speed Reducing Ratio: 1:3~1:500

刹车调速型

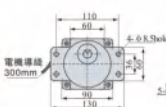
Brake Speed regulation type

齿轮品名

Name of Gear

5G□K

A51K90(120)RGU-AFM A51K90(120)RGU-AFM
A51K90(120)RGU-CFM A51K90(120)RGU-CFM



电机外径
300mm

结构：减速器+电动机+刹车器+调速器

Structure: Reducer+Electric motor+Brake+Speed governor

重量：4.9kg

Weight: 4.9kg

减速比：1:3~1:500

Speed Reducing Ratio: 1:3~1:500

带端子箱型

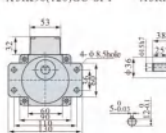
With terminal box type

齿轮品名

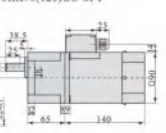
Name of Gear

5G□K

A51K90(120)GU-AFT A51K90(120)GU-UF
A51K90(120)GU-CFT A51K90(120)GU-CFT
A51K90(120)GU-UYFT A51K90(120)GU-UYFT
A51K90(120)GU-SFT A51K90(120)GU-SFT



电机外径
300mm



结构：减速器+电动机+端子箱 重量：4.5kg 减速比：1:3~1:500

Structure: Reducer+Electric motor+Terminal box Weight: 4.5kg Speed Reducing Ratio: 1:3~1:500

120/140W

□100mm

电机特性

List of motor characteristics



电机型号 Motor model	规格 Speeds	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque mN.m g.f.cm	额定转矩 Rated Torque mN.m g.f.cm	额定转速 Rated Revolution r/min	噪音容量/级 Capacity/Unit μF/VAC		
A6IK120GU-CF A6IK120A-CF	感应 Induction	120	单相 1-phase 220	50	1.0	1100	11000	880	8800	1350	6/450
A6RK120GU-CF A6RK120A-CF	可逆 Reversible			60	1.0	925	9250	740	7400	1350	6/450
A6IK120GU-AF A6IK120A-AF	感应 Induction	120	单相 1-phase 110	50	1.7	1100	11000	880	8800	1350	30/250
A6RK120GU-AF A6RK120A-AF	可逆 Reversible			60	1.6	925	9250	740	7400	1350	28/250
A6IK120GU-UF A6IK120A-UF	—	120	三相 3-phase 380	50	0.46	1100	11000	880	8800	1350	—
A6RK120GU-UF A6RK120A-UF	—			60	0.42	925	9250	740	7400	1350	—
A6IK120GU-SF A6IK120A-SF	—	120	三相 3-phase 220	50	0.8	1100	11000	880	8800	1350	—
A6RK120GU-SF A6RK120A-SF	—			60	0.73	925	9250	740	7400	1350	—
A6IK140GU-CF A6IK140A-CF	感应 Induction	140	单相 1-phase 220	50	1.23	1285	12850	1028	10280	1350	8/450
A6RK140GU-CF A6RK140A-CF	可逆 Reversible			60	1.12	1078	10780	863	8630	1350	8/450
A6IK140GU-AF A6IK140A-AF	感应 Induction	140	单相 1-phase 110	50	1.3	1285	12850	1028	10280	1350	10/450
A6RK140GU-AF A6RK140A-AF	可逆 Reversible			60	1.43	1078	10780	863	8630	1350	10/450
A6IK140GU-UF A6IK140A-UF	—	140	三相 3-phase 380	50	2.05	1285	12850	1028	10280	1350	32/250
A6RK140GU-UF A6RK140A-UF	—			60	1.9	1078	10780	863	8630	1350	30/250
A6IK140GU-SF A6IK140A-SF	—	140	三相 3-phase 220	50	2.2	1285	12850	1028	10280	1350	40/250
A6RK140GU-SF A6RK140A-SF	—			60	2.4	1078	10780	863	8630	1350	32/250

● 上述参数是指电机单独使用，不附加任何负载时。
● 电机额定转速、额定电流允许在 ±5% 范围内变动。

● Parameters in above table refer to motor alone, without any load device.
● Permissible change in rated speed and rated current of the motor is within the range of ±5%.

减速电机允许负载

Allowable load for the gear motor

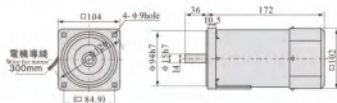
减速步数 Gear-down parameter	同步转速r/min Synchronous speed	500 300 200 150 120 100 83 75 60 50 41 37 30 25 20 15 12 10 8 7 6 5 3																			
		500 300 200 150 120 100 83 75 60 50 41 37 30 25 20 15 12 10 8 7 6 5 3																			
最大允许负载 Max allowable load	120W	kg.cm	21.5	36	54	69.8	85	103	125	139	172	209	226	251							315
		N.m	2.11	3.52	5.28	6.85	8.45	10.2	12.3	13.6	16.9	20.5	22.14	24.6							31
140W	kg.cm	25.1	42	63	73.5	99.2	120	132	147	200.7221	238	265							330		
	N.m	2.46	4.11	6.16	8.02	9.86	11.8	13	14.4	19.7321	23.4	26							32.5		

- 转速是指电机的同步转速再基准除以减速比而算出的数值。实际转速略高于基准值减少2-15%左右。
- 希望以大于上表的减速比进一步减速时，可在电机轴与减速机之间安装减速机10的中间减速级。
- 当负载扭矩超过电机最大允许负载扭矩，并有堵转情况存在时，请在减速机输出轴和负载端增加扭矩限制装置，确保电机减速正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in table.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please show down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

圆轴型

Circular shaft type

- A 6IK120(140)A-AF A 6RK120(140)A-AF
- A 6IK120(140)A-CF A 6RK120(140)A-CF
- A 6IK120(140)A-YF A 6RK120(140)A-YF



结构：电动机 Structure: Electric motor
重量：4.8kg Weight: 4.8kg

定速型

Fixed speed type

齿轮品名

Name of Gear 6GU/CK

- A6IK120(140)GU-AF A6RK120(140)GU-AF
- A6IK120(140)GU-CF A6RK120(140)GU-CF
- A6IK120(140)GU-YF A6RK120(140)GU-YF

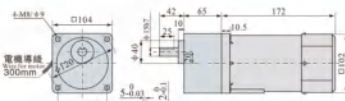
带端子箱型

With terminal box type

齿轮品名

Name of Gear 6GU/CK

- A6IK120(140)GU-AFT A6RK120(140)GU-AFT
- A6IK120(140)GU-CFT A6RK120(140)GU-CFT
- A6IK120(140)GU-YFT A6RK120(140)GU-YFT
- A6IK120(140)GU-SFT A6RK120(140)GU-SFT



结构：减速机+电动机 Structure: Reducer+Electric motor
重量：6.4kg Weight: 6.4kg
减速比：1.3-1.250 Speed Reducing Ratio: 1.3-1.250



结构：减速机+电动机+端子箱 Structure: Reducer+Electric motor+Terminal box
重量：6.5kg Weight: 6.5kg
减速比：1.3-1.250 Speed Reducing Ratio: 1.3-1.250

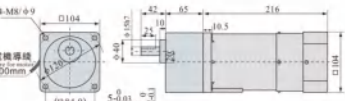
刹车定速型

Brake fixed speed type

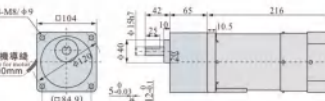
齿轮品名

Name of Gear 6GU/CK

- A6IK120(140)RGU-AFM A6RK120(140)RGU-AFM
- A6IK120(140)RGU-CFM A6RK120(140)RGU-CFM
- A6IK120(140)RGU-YFM A6RK120(140)RGU-YFM



结构：减速机+电动机+制动器 Structure: Reducer+Electric motor+Brake
重量：6.9kg Weight: 6.9kg
减速比：1.3-1.250 Speed Reducing Ratio: 1.3-1.250



结构：减速机+电动机+制动器+调速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量：6.9kg Weight: 6.9kg
减速比：1.3-1.250 Speed Reducing Ratio: 1.3-1.250

160/180W

□100mm



电机特性

List of motor characteristics

电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque		额定转矩 Rated Torque		额定转速 Rated Revolution r/min	容量系数/耐压 Capacity/Ve
						m.N.m	gf.cm	m.N.m	gf.cm		
A61K160GU-CF A61K160A-CF A6RK160GU-CF A6RK160A-CF	感速 Induction 可逆 Reversible	160	单相 1-phase 220	50	1.25	1575	15750	1260	12600	1350	8/450
				60	1.24	1225	12250	980	9800	1550	8/450
				60	1.4	1575	15750	1260	12600	1350	10/450
A61K160GU-AF A61K160A-AF A6RK160GU-AF A6RK160A-AF	感速 Induction 可逆 Reversible	160	单相 1-phase 110	50	2.4	1575	15750	1260	12600	1350	32/250
				60	2.2	1225	12250	980	9800	1550	30/250
				60	2.6	1575	15750	1260	12600	1350	40/250
A61K160GU-UF A61K160A-UF A6RK160GU-SF A6RK160A-SF	—	160	三相 3-phase 380	50	0.55	1468	14680	1175	11750	1350	—
				60	0.50	1232	12320	986	9860	1550	—
				50	0.95	1468	14680	1175	11750	1350	—
A61K180GU-CF A61K180A-CF A6RK180GU-CF A6RK180A-CF	感速 Induction 可逆 Reversible	180	单相 1-phase 220	50	1.50	1837	18370	1470	14700	1350	10/450
				60	1.46	1540	15400	1232	12320	1550	10/450
				50	1.50	1837	18370	1470	14700	1350	12/450
A61K180GU-AF A61K180A-AF A6RK180GU-AF A6RK180A-AF	感速 Induction 可逆 Reversible	180	单相 1-phase 110	50	2.8	1837	18370	1470	14700	1350	40/250
				60	2.6	1540	15400	1232	12320	1550	40/250
				50	2.8	1837	18370	1470	14700	1350	48/250
A61K180GU-UF A61K180A-UF A6RK180GU-SF A6RK180A-SF	—	180	三相 3-phase 380	50	0.80	1825	18250	1460	14600	1350	—
				60	0.75	1475	14750	1180	11800	1550	—
				50	1.05	1825	18250	1460	14600	1350	—
A61K180A-SF	—	180	三相 3-phase 220	60	1.0	1475	14750	1180	11800	1550	—

■ 上述参数为电机标准值，不附加任何负载。
■ 电机额定转速、额定电流允许在±5%范围内波动。

■ Parameters in above table refer to motor alone, without any load device.
■ Permissible change in rated speed and rated current of the motor is within the range of ±5%.

减速电机允许负载

Allowable load for the gear motor

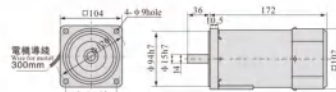
调速参数 Geared-down parameter	同步转速/r/m Synchronous speed	同步转速比 Synchronous ratio																						
		3	5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250	300	500
最大允许负载 Max allowable load	160W	kg.cm N.m	28.7 2.81	48 4.69	72 7.04	87 8.53	113.3 11.07	137.5 13.54	157 15.4	174 17.1	229 22.6	261 25.8	317 31.1	396 38.8	440 43	440 43	440 43	440 43	440 43	440 43	440 43	440 43	440 43	440 43
	180W	kg.cm N.m	32.3 3.17	54 5.28	81 7.92	94.7 9.28	127.5 12.48	150 14.7	170 16.7	189 18.7	237 23.2	284 27.8	310 30.1	344 33.4	430 42.2	440 43	440 43	440 43	440 43	440 43	440 43	440 43	440 43	440 43

- 转速是以电机的同步转速为基准按比计算出的数值。实际转速随负载大小变化而所示数值减少2~15%左右。
- 希望以大于上述的调速比进一步减速时，可在电机轴与减速机之间安装减速机比100的中国减速机。
- 当负载转矩或转速超过最大允许负载转矩，并有堵转情况存在时，请在电源输出和负载连接处加装限制装置，确保电机减速机正常运行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down bus at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

圆轴型

Circular shaft type

A61K160(180)A-AF A6RK160(180)A-AF
A61K160(180)A-CF A6RK160(180)A-CF
A61K160(180)A-YF A6RK160(180)A-YF



结构：电动机
重量：5kg
Structure: Electric motor
Weight: 5kg

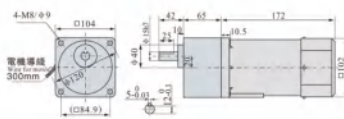
定速型

Fixed speed type

齿轮品名

Name of Gear 6GU□K

A61K160(180)GU-AF A6RK160(180)GU-AF
A61K160(180)GU-CF A6RK160(180)GU-CF
A61K160(180)GU-YF A6RK160(180)GU-YF



结构：减速器+电动机
重量：6.6kg
减速比：1.3~1.250

Structure: Reducer+Electric motor
Weight: 6.6kg
Speed Reducing Ratio: 1.3~1.250

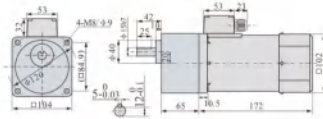
带端子箱型

With terminal box type

齿轮品名

Name of Gear 6GU□K

A61K160(180)GU-AFT A6RK160(180)GU-AFT
A61K160(180)GU-CFT A6RK160(180)GU-CFT
A61K160(180)GU-YFT A6RK160(180)GU-YFT
A61K160(180)GU-SFT A6RK160(180)GU-SFT



结构：减速器+电动机+端子箱
重量：6.7kg
减速比：1.3~1.250

Structure: Reducer+Electric motor+Terminal box
Weight: 6.7kg
Speed Reducing Ratio: 1.3~1.250

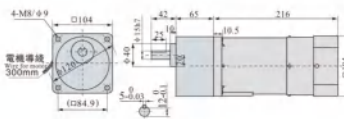
刹车定速型

Brake fixed speed type

齿轮品名

Name of Gear 6GU□K

A61K160(180)GU-AFM A6RK160(180)GU-AFM
A61K160(180)GU-CFM A6RK160(180)GU-CFM
A61K160(180)GU-YFM A6RK160(180)GU-YFM



结构：减速器+电动机+刹车器
重量：7kg
减速比：1.3~1.250

Structure: Reducer+Electric motor+Brake
Weight: 7kg
Speed Reducing Ratio: 1.3~1.250

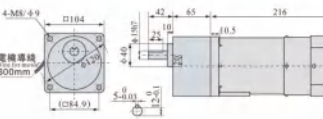
刹车调速型

Brake speed regulation type

齿轮品名

Name of Gear 6GU□K

A61K160(180)RGU-AFM A6RK160(180)RGU-AFM
A61K160(180)RGU-CFM A6RK160(180)RGU-CFM



结构：减速器+电动机+刹车器+调速器
重量：7.1kg
减速比：1.3~1.250

Structure: Reducer+Electric motor+Brake+Speed governor
Weight: 7.1kg
Speed Reducing Ratio: 1.3~1.250

200/250W

□100mm



电机特性

List of motor characteristics

电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque mN.m / g.cm	额定转矩 Rated Torque mN.m / g.cm	额定转速 Rated Revolution r/min	容量系数/阻 Capacity/ε		
A6IK200GU-CF A6IK200A-CF	单相 Induction	200	单相 1-phase 220	50	1.55	1485	14850	1414	14140	1350	8/450
	60			1.5	1294	12940	1232	12320	1550	8/450	
A6RK200GU-CF A6RK200A-CF	可逆 Reversible	200	单相 1-phase 220	50	1.55	1485	14850	1414	14140	1350	10/450
	60			1.5	1294	12940	1232	12320	1550	10/450	
A6IK200GU-AF A6IK200A-AF	单相 Induction	200	单相 1-phase 110	50	3.0	1485	14850	1414	14140	1350	32/250
	60			2.8	1294	12940	1232	12320	1550	30/250	
A6RK200GU-AF A6RK200A-AF	可逆 Reversible	200	单相 1-phase 110	50	3.0	1485	14850	1414	14140	1350	40/250
	60			2.8	1294	12940	1232	12320	1550	36/250	
A6IK200GU-UF A6IK200A-UF	—	200	三相 3-phase 380	50	0.9	1600	16000	1450	14500	1350	—
	60			0.87	1386	13860	1260	12600	1550	—	
A6RK200GU-SF A6RK200A-SF	—	200	三相 3-phase 220	50	1.15	1600	16000	1450	14500	1350	—
	60			1.1	1386	13860	1260	12600	1550	—	
A6IK250GU-CF A6IK250A-CF	单相 Induction	250	单相 1-phase 220	50	1.6	2020	20200	1837	18370	1350	10/450
	60			1.55	1700	17000	1540	15400	1550	10/450	
A6RK250GU-CF A6RK250A-CF	可逆 Reversible	250	单相 1-phase 220	50	1.6	2020	20200	1837	18370	1350	12/450
	60			1.55	1700	17000	1540	15400	1550	12/450	
A6IK250GU-AF A6IK250A-AF	单相 Induction	250	单相 1-phase 110	50	3.2	2020	20200	1837	18370	1350	40/250
	60			3.0	1700	17000	1540	15400	1550	40/250	
A6RK250GU-AF A6RK250A-AF	可逆 Reversible	250	单相 1-phase 110	50	3.2	2020	20200	1837	18370	1350	48/250
	60			3.2	1700	17000	1540	15400	1550	48/250	
A6IK250GU-UF A6IK250A-UF	—	250	三相 3-phase 380	50	1.3	2022	20220	1840	18400	1350	—
	60			1.2	1760	17600	1600	16000	1550	—	
A6RK250GU-SF A6RK250A-SF	—	250	三相 3-phase 220	50	1.21	2022	20220	1840	18400	1350	—
	60			1.15	1760	17600	1600	16000	1550	—	

● 上表参数是指满载时，不加任何负载测量。
● 电机额定转速，额定电压均在±5%范围内波动。

● Parameters in above table refer to motor alone, without any load device.
● Permissible change in rated speed and rated current of the motor is within the range of ±5%.

低速电机允许负载

Allowable load for the gear motor

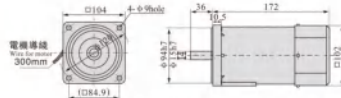
减速参数 Geared-down parameter	同步转速 r/min Synchronous speed	转速比 ratio																						
		3	5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250		
最大允许负载 Max allowable load	200W	39.4	66	89.8	119	149	180	214	239	299	358	392	435											
	250W	49.3	82.1	112	149	186	224	268	298	375	438													

- 转速是指电机的同步转速再除以减速比而算出的数值。實際轉速隨負載大小變化而比所示數值減少2~15%左右。
- 希望在大于上表的减速比進一步減速時，可在電機輸出端減速比中間安裝減速比為100的中間減速機。
- 當負載扭矩超過電機最大允許負載時，並有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保電機減速正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shows in 2~15%.
- Hope in the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 100 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

圓軸型

Circular shaft type

A6IK200(250)A-AF A6RK200(250)A-AF
A6IK200(250)A-CF A6RK200(250)A-CF
A6IK200(250)A-YF A6RK200(250)A-YF



結構：電動機 Structure: Electric motor
重量：5kg Weight: 5kg

固定型

Fixed speed type

齒輪品名

Name of Gear 6GUCJK

A6IK200(250)GU-AF A6RK200(250)GU-AF
A6IK200(250)GU-CF A6RK200(250)GU-CF
A6IK200(250)GU-YF A6RK200(250)GU-YF

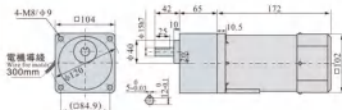
帶端子箱型

With terminal box type

齒輪品名

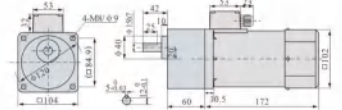
Name of Gear 6GUCJK

A6IK200(250)GU-AFT A6RK200(250)GU-AFT
A6IK200(250)GU-CFT A6RK200(250)GU-CFT
A6IK200(250)GU-YFT A6RK200(250)GU-YFT
A6IK200(250)GU-SFT A6RK200(250)GU-SFT



結構：減速器+電動機
重量：6.6kg
減速比：1.3~1.250

Structure: Reducer+Electric motor
Weight: 6.6kg
Speed Reducing Ratio: 1.3~1.250



結構：減速器+電動機+端子箱
重量：6.7kg
減速比：1.3~1.250

Structure: Reducer+Electric motor+Terminal box
Weight: 6.7kg
Speed Reducing Ratio: 1.3~1.250

剎車定速型

Brake speed type

齒輪品名

Name of Gear 6GUCJK

A6IK200(250)GU-AFM A6RK200(250)GU-AFM
A6IK200(250)GU-CFM A6RK200(250)GU-CFM
A6IK200(250)GU-YFM A6RK200(250)GU-YFM

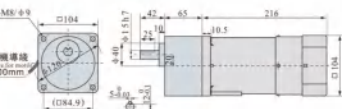
剎車調速型

Brake Speed regulation type

齒輪品名

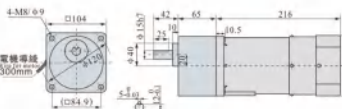
Name of Gear 6GUCJK

A6IK200(250)RGU-AFM A6RK200(250)RGU-AFM
A6IK200(250)RGU-CFM A6RK200(250)RGU-CFM



結構：減速器+電動機+剎車器
重量：7kg
減速比：1.3~1.250

Structure: Reducer+Electric motor+Brake
Weight: 7kg
Speed Reducing Ratio: 1.3~1.250



結構：減速器+電動機+剎車器+調速器
重量：7.1kg
減速比：1.3~1.250

Structure: Reducer+Electric motor+Brake+Speed governor
Weight: 7.1kg
Speed Reducing Ratio: 1.3~1.250

370W

□100mm



電機特性

List of motor characteristics

電機型號 Motor model	規格 Specs	輸出功率 Output Power W	電源電壓 Voltage V	頻率 Frequency Hz	電流 Current A	起動扭矩 Starting Torque mN.m gf.cm	額定扭矩 Rated Torque mN.m gf.cm	額定轉速 Rated Revolution r/min	電容容/耐量 Capacity/Ve μF/VAC		
A6IK370GU-CF A6IK370A-CF	感應 Induction	370	1phase 220	50	2.3	2944	29440	2560	25660	1350	15/450
				60	2.1	2622	26220	2280	22880	1550	15/450
				50	2.3	2944	29440	2560	25660	1350	15/450
A6IK370GU-AF A6IK370A-AF	可逆 Reversible	370	1phase 110	50	2.1	2622	26220	2280	22880	1550	15/450
				60	2.1	2622	26220	2280	22880	1550	15/450
				50	3.0	2944	29440	2560	25660	1350	32/250
A6IK370GU-UF A6IK370A-UF	可逆 Reversible	370	3phase 380	50	2.8	2622	26220	2280	22880	1550	30/250
				60	2.8	2622	26220	2280	22880	1550	30/250
				50	3.0	2944	29440	2560	25660	1350	40/250
A6IK370GU-SF A6IK370A-SF	可逆 Reversible	370	3phase 220	50	2.8	2622	26220	2280	22880	1550	36/250
				60	1.4	3018	30180	2624	26240	1350	---
				60	1.2	2680	26800	2330	23300	1550	---
A6IK370GU-SF A6IK370A-SF	---	370	3phase 220	50	2.5	3018	30180	2624	26240	1350	---
				60	2.0	2680	26800	2330	23300	1550	---

- 上表參數是指電機單獨，不附加任何負載裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

Allowable load for the gear motor

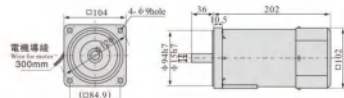
減速參數 Geared-down parameter	同步轉速r/min Synchronous speed	減速比 ratio																									
		3	5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250					
最大允許負載 Max allowable load	370W	kg.cm	62.2	106	142	190	238	285	342	381																440	
		N.m	6.22	10.4	14.0	18.6	23.3	28	33.6	37.3																43	

- 減速比以電機轉速的同步轉速為基準除以減速比而算出的數值。實際轉速隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電機轉速與減速比之間安裝減速比為10的中間減速機。
- 若負載扭矩超過減速電機最大允許負載扭矩，並有轉停現象存在時，請在減速機輸出軸和負載連接處加裝扭矩限制裝置，確保負載減速正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in-15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 in the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

圓軸型

Circular shaft type

- A6IK370A-AF A6RK370A-AF
- A6IK370A-CF A6RK370A-CF
- A6IK370A-YF A6RK370A-YF



結構：電動機 Structure: Electric motor
重量：5kg Weight: 5kg

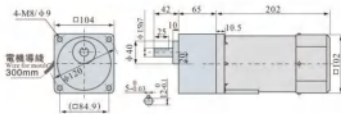
定速型

Fixed speed type

齒輪品名

6GU□K

- A6IK370CU-AF A6RK370CU-AF
- A6IK370GU-CF A6RK370GU-CF
- A6IK370GU-YF A6RK370GU-YF



結構：減速器·電動機
重量：6.6kg
減速比：1:3~1:250
Structure: Reducer·Electric motor
Weight: 6.6kg
Speed Reducing Ratio: 1:3~1:250

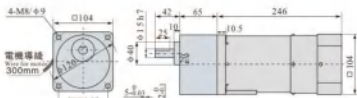
剎車定速型

Brake Fixed speed type

齒輪品名

6GU□K

- A6IK370CU-AFM A6RK370CU-AFM
- A6IK370GU-CFM A6RK370GU-CFM
- A6IK370GU-YFM A6RK370GU-YFM



結構：減速器·電動機·剎車器
重量：7kg
減速比：1:3~1:250
Structure: Reducer·Electric motor·Brake
Weight: 7kg
Speed Reducing Ratio: 1:3~1:250

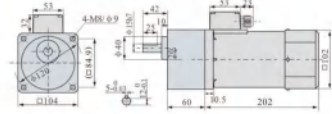
帶端子箱型

With terminal box type

齒輪品名

6GU□K

- A6IK370CU-AFT A6RK370CU-AFT
- A6IK370GU-CFT A6RK370GU-CFT
- A6IK370GU-U(Y)YF A6RK370GU-U(Y)YF
- A6IK370GU-SFT A6RK370GU-SFT



結構：減速器·電動機·端子箱
重量：6.7kg
減速比：1:3~1:250
Structure: Reducer·Electric motor·Terminal box
Weight: 6.7kg
Speed Reducing Ratio: 1:3~1:250

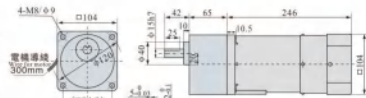
剎車調速型

Brake Speed regulation type

齒輪品名

6GU□K

- A6IK370RUC-AFM A6RK370RUC-AFM
- A6IK370RUG-CFM A6RK370RUG-CFM



結構：減速器·電動機·剎車器·調速器
重量：7.1kg
減速比：1:3~1:250
Structure: Reducer·Electric motor·Brake·Speed governor
Weight: 7.1kg
Speed Reducing Ratio: 1:3~1:250

交流馬達型號之選定
The selection for AC motor



A4	R	K	25	GN	A	□
↓	↓	↓	↓	↓	↓	↓
外形尺寸 Overall Dimension	機種 Kind	馬達系列 Motor Series	出力 Output Power	馬達軸形狀 Motor Axis Shape	電壓極數 Voltage/Poles	其它附件 Other Accessories
4:80mm 5:90mm 6:100mm	F:感應式 R:可逆式 T:轉矩馬達	I: Inductive K: Series R: Reversible T: Torque Motor	25=25W 40=40W 60=60W 90=90W 120=120W 140=140W 160=160W 180=180W 200=200W 250=250W	GN螺旋齒軸 (25W-40W馬達) GN Spiral Toothed Axis (25W-40W motor) GU螺旋齒軸 (60W-250W馬達) GU Spiral Toothed Axis (60W-250W motor)	A=1 φ110V4P B=1 φ110V2P C=1 φ220V4P D=1 φ220V2P S=3 φ220V4P U=3 φ380V4P W=3 φ440V4P Y=3 φ220/380V4P Z=3 φ220/440V4P H=3 φ380V2P	F: 風扇 F: Fan M: 電磁剎車 M: Electromagnetic Brake Z: 機械阻尼 Z: Mechanical-damping T: 接線盒 T: Terminal Box P: 溫度開關 P: Temperature Switch



馬達軸形狀前加R為調速馬達
Plus "R" before the axis shape of the motor stands for the speed regulation motor.

齒輪型號之選定
The selection for gearbox

4	GU	100	RC	K
↓	↓	↓	↓	↓
外形尺寸 Overall Dimension	齒輪種類 Kinds of Gears	減速比 Speed Reducing Ratio	出力軸種類 Type of output shaft	齒輪軸承種類 Kinds of Gear Bearings
3:70mm 4:80mm 5:90mm 6:100mm	GU 加強形齒輪箱 GU Reinforced Gear Box GN 一般形齒輪箱 GN Common Gear Box		RC: 中空軸 RC: Hollow shaft RT: 中實軸 RT: Solid shaft	K=滾珠培林軸承 K= Ball Bearing


25/30W

□80mm



電機特性

List of motor characteristics

電機型號 Motor model	規格 Specs	輸出功率 Output Power W	電源電壓 Voltage V	頻率 Frequency Hz	電流 Current A	起動扭矩 Starting Torque mN.m gf.cm	額定扭矩 Rated Torque mN.m gf.cm	額定轉速 Rated Revolution r/min	電容容量/耐壓 Capacity/Ve # F/VAC		
A4K25GN-C A4K25A-C	感應 Induction	25	單相 1-phase 220	50	0.22	231	2310	185	1850	1250	1.5/450
	60			0.21	192	1920	154	1540	1550	1.5/450	
A4K25GN-C A4K25A-C	可逆 Reversible			50	0.24	231	2310	185	1850	1250	2/450
				60	0.26	192	1920	154	1540	1550	2/450
A4K25GN-A A4K25A-A	感應 Induction	25	單相 1-phase 110	50	0.48	231	2310	185	1850	1250	6/250
	60			0.46	192	1920	154	1540	1550	6/250	
A4K25GN-A A4K25A-A	可逆 Reversible			50	0.50	231	2310	185	1850	1250	8/250
				60	0.56	192	1920	154	1540	1550	8/250
A4K25GN-U A4K25A-U	—	25	三相 3-phase 380	50	0.14	231	2310	185	1850	1250	—
	60			0.12	192	1920	154	1540	1550	—	
A4K25GN-S A4K25A-S	—	25	三相 3-phase 520	50	0.24	231	2310	185	1850	1250	—
	60			0.225	192	1920	154	1540	1550	—	
A4K30GN-C A4K30A-C	感應 Induction	30	單相 1-phase 220	50	0.28	275	2750	220	2200	1250	2.2/450
	60			0.3	231	2310	185	1850	1550	2.2/450	
A4K30GN-C A4K30A-C	可逆 Reversible			50	0.3	275	2750	220	2200	1250	2.5/450
				60	0.32	231	2310	185	1850	1550	2.5/450
A4K30GN-A A4K30A-A	感應 Induction	30	單相 1-phase 110	50	0.58	275	2750	220	2200	1250	8/250
	60			0.60	231	2310	185	1850	1550	8/250	
A4K30GN-A A4K30A-A	可逆 Reversible			50	0.60	275	2750	220	2200	1250	10/250
				60	0.65	231	2310	185	1850	1550	10/250

- 上表參數均指電機單獨運轉，不得加任何負載運轉。
- 電機精確轉速，額定電壓允許在±5%範圍內變動。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

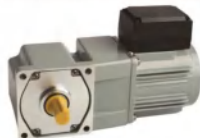
Allowable load for the gear motor

減速參數 Geared-down parameter	同步轉速 r/min Synchronous speed	減速比 ratio																						
		3	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250	300
最大允許負載 Max allowable load	25W	kg.cm	4.5	7.9	9.46	12	15.7	19	23	28.4	31.5	35	42	51.1	56.7	62	76.6							80
		N.m	0.45	0.79	0.93	1.18	1.55	1.86	2.25	2.78	3.1	3.43	4.12	5.01	5.57	6.18	7.52							7.84
30W	kg.cm	5.7	8.1	11.3	14.2	18.9	23.6	28.3	34	37.8	42.5	51.1	60.2	68.1	65.7									80
	N.m	0.56	0.8	1.1	1.39	1.85	2.32	2.78	3.34	3.7	4.17	5.01	6.01	6.68	6.5									7.84

- 轉速是以電動機的同步轉速為基準以減速比計算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 當速比大於上表的減速比進一步減速時，可在電動機與減速機之間安裝速比為100的中間減速機。
- 負載短時間過載或電機較大允許負載時，若有轉動情況存在時，請在減速機輸出軸與負載連接處加裝限制裝置，確保齒輪減速機正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes if less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

直角中實減速箱

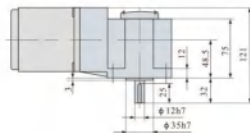
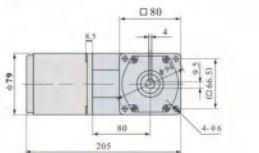
Right angle solid-shaft reduction gear box



型號:4GN □RT-K Model:4GN □RT-K

80型 CAD 尺寸 Model 80 CAD size

組合：定速電機+直角中實減速箱
質量：3.4kg
Combination: fixed speed motor + right angle solid reduction gear box
Mass: 3.4kg



直角中空減速箱

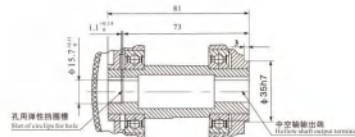
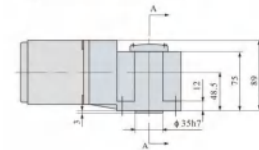
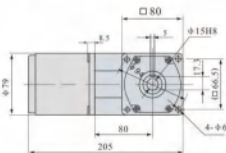
Right angle hollow-shaft reduction gear box



型號:4GN □RC-K Model:4GN □RC-K

80型 CAD 尺寸 Model 80 CAD size

組合：定速電機+直角中空減速箱
質量：3.3kg
Combination: fixed speed motor + right angle hollow reduction gear box
Mass: 3.3kg

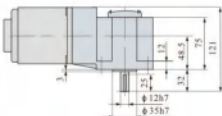
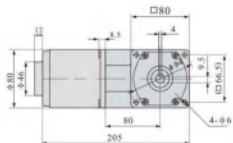


A-A 旋轉
A-A rotation
2:1

80型 CAD 尺寸
Model 80 CAD size

組合：調速電機-直角中空實減速箱
質量：3.5kg

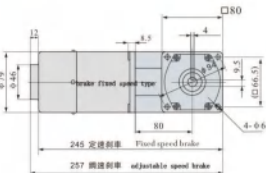
Combination: adjustable speed motor + right angle solid reduction gear box
Mass: 3.5kg



80型 CAD 尺寸
Model 80 CAD size

組合：制車定速/調速電機-直角中空實減速箱
質量：3.8kg

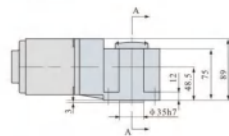
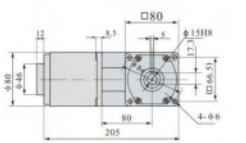
Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Mass: 3.8 kg



80型 CAD 尺寸
Model 80 CAD size

組合：調速電機-直角中空實減速箱
質量：3.4kg

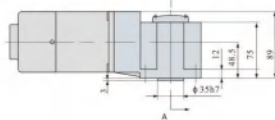
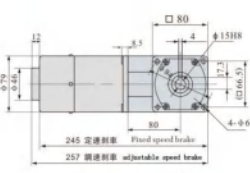
Combination: adjustable speed motor + right angle hollow deceleration gear box
Mass: 3.4kg



80型 CAD 尺寸
Model 80 CAD size

組合：制車定速/調速電機-直角中空實減速箱
質量：3.7kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Mass: 3.7kg



40W

□90mm



電機特性

List of motor characteristics

電機型號 Motor model	規格 Specs	輸出功率 Output Power W	電源電壓 Voltage V	頻率 Frequency Hz	電流 Current A	起動扭矩 Starting Torque		額定扭矩 Rated Torque		額定轉速 Rated Revolution r/min	電容容差/市電 Capacity/Vc μF/VAC		
						mNm	gf.cm	mNm	gf.cm				
公司型號 JWD types	感應 Induction	40	單相 1-phase 220	50	0.35	367	3670	294	2940	1300	2.5/450		
						60	0.33	307	3070	246	2460	1550	2.5/450
						60	0.38	367	3670	294	2940	1300	3.0/450
ASRK40G-C ASRK40A-C	可逆 Reversible	40	單相 1-phase 110	50	0.4	307	3070	246	2460	1550	3.0/450		
						60	0.70	367	3670	294	2940	1300	10/250
						60	0.72	307	3070	246	2460	1550	10/250
ASRK40G-A ASRK40A-A	可逆 Reversible	40	單相 1-phase 110	50	0.76	367	3670	294	2940	1300	12/250		
						60	0.80	307	3070	246	2460	1550	12/250
						ASRK40G-U ASRK40A-U	—	40	三相 3-phase 380	50	0.24	367	3670
60	0.22	307	3070	246	2460							1550	—
ASRK40G-S ASRK40A-S	—	40	三相 3-phase 220	50	0.42							367	3670
						60	0.38	307	3070	246	2460	1550	—

● 上表參數是指電機標準，不附加任何負載質量。
● 電機額定轉速、額定電流允許在 ±5% 範圍內變動。

● Parameters in above table refer to motor alone, without any load device.
● Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

Allowable load for the gear motor

減速參數 Geared-down parameter	同步轉速 r/m Synchronous speed	減速比 ratio																									
		500	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5	3			
最大允許負載 Max allowable load	40W	kg.cm	7.3	12	14.5	18	24.2	30	36	43.6	55	65.5	78	87	98												
		N.m	0.72	1.18	1.43	1.77	2.4	2.94	3.53	4.28	5.0	6.24	7.7	8.57	9.64	100 9.81											

- 轉速是以電動機的同步轉速為基準除以減速比而算出的數值。實際轉速隨負載大小變化而比所示數值減少2~15%左右。
- 若要以大於上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比為10的中間減速機。
- 當負載超過減速電機最大允許負載時，並有異常情況存在時，請在減速機輸出軸與負載裝置直接加裝扭矩限制裝置，確保齒輪減速正常運行。
- The speed is based on the synchronous motor speed/reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load reduction in less than the values shown in 2~15%.
- If the speed in the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 of the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

直角中实减速箱

Right angle solid-shaft reduction gear box



型号:5GU □RT-K Model:5GU □RT-K

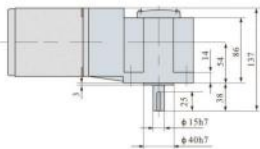
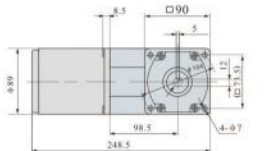
90型 CAD 尺寸

Model 90 CAD size

组合: 定速电机+直角中实减速箱

質量: 5.3kg

Combination: fixed speed motor + right angle solid reduction gear box
Mass: 5.3kg



直角中空减速箱

Right angle hollow-shaft reduction gear box



型号:5GU □RC-K Model:5GU □RC-K

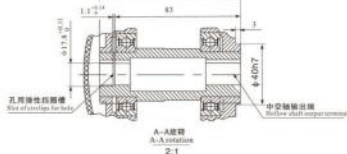
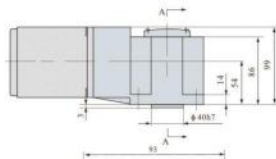
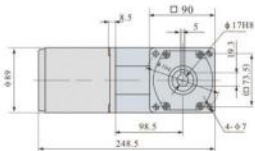
90型 CAD 尺寸

Model 90 CAD size

组合: 定速电机+直角中空减速箱

質量: 5.2kg

Combination: fixed speed motor + right angle hollow reduction gear box
Mass: 5.2kg



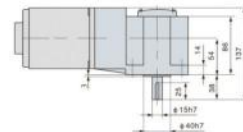
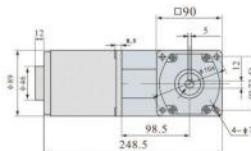
90型 CAD 尺寸

Model 90 CAD size

组合: 调速电机+直角中实减速箱

質量: 5.4kg

Combination: adjustable speed motor + right angle solid reduction gear box
Mass: 5.4kg



90型 CAD 尺寸

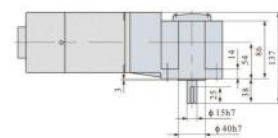
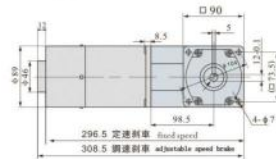
Model 90 CAD size

组合: 刹车定速/调速电机+直角中实减速箱

質量: 5.7kg

Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box

Mass: 5.7 kg



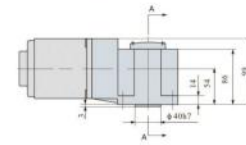
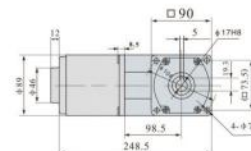
90型 CAD 尺寸

Model 90 CAD size

组合: 调速电机+直角中空减速箱

質量: 5.3kg

Combination: adjustable speed motor + right angle hollow deceleration gear box
Mass: 5.3kg



90型 CAD 尺寸

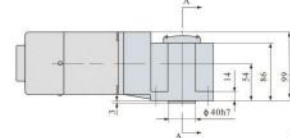
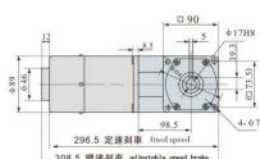
Model 90 CAD size

组合: 刹车定速/调速电机+直角中空减速箱

質量: 5.6kg

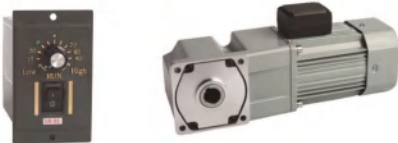
Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box

Mass: 5.6kg



60W

□90mm



電機特性

List of motor characteristics

電機型號 Motor model	規格 Specs	輸出功率 Output Power	電源電壓 Voltage	頻率 Frequency	電流 Current	起動扭矩 Starting Torque		額定扭矩 Rated Torque		額定轉速 Rated Revolution	電容容量/版 Capacity/Ver		
						mN.m	gf.cm	mN.m	gf.cm				
ASIK60GU-CF	感應 Induction	60	單相 1-phase	220	50	0.45	551	5510	441	4410	1350	3.5/450	
ASIK60A-CF					60	0.48	462	4620	370	3700	1550	3.5/450	
ASRK60GU-CF					可逆 Reversible	50	0.5	837	8370	670	6700	1350	4/450
ASRK60A-CF						60	0.52	692	6920	554	5540	1550	4/450
ASIK60GU-AF	感應 Induction	60	單相 1-phase	110	50	0.90	551	5510	441	4410	1350	14/250	
ASIK60A-AF					60	0.88	462	4620	370	3700	1550	14/250	
ASRK60GU-AF					可逆 Reversible	50	1.0	837	8370	670	6700	1350	16/250
ASRK60A-AF						60	1.2	692	6920	554	5540	1550	16/250
ASIK60GU-UF	—	60	三相 3-phase	380	50	0.30	551	5510	441	4410	1350	—	
ASIK60A-UF					60	0.28	462	4620	370	3700	1550	—	
ASRK60GU-SF	—	60	三相 3-phase	220	50	0.52	551	5510	441	4410	1350	—	
ASRK60A-SF					60	0.48	462	4620	370	3700	1550	—	

● 上表參數是指電機單獨，不附加任何負荷裝置。
● 電機額定轉速、額定電流允許在±5%範圍內變動。

● Parameters in above table refer to motor alone, without any load device.
● Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

Allowable load for the gear motor

減速參數 Geared-down parameter	同步轉速 r/m Synchronous speed																								
	500	375	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5	3	
減速比 ratio	3	4	5	6	7.5	10	12.5	15	20	25	30	36	40	50	60	75	100	120	150	180	200	250	300	500	
最大允許負載 Max allowable load	60W	kg.cm	11	14.6	18	21.8	27	36	41	50	65	81	98	117	130	147									200
		N.m	1.08	1.42	1.77	2.14	2.64	3.57	4.02	4.80	6.24	8.03	9.64	11.5	12.8	14.4									19.6

- 轉速是以電動機的同步轉速為基準除以減速比而算出的數值。實際轉速將隨負載大小變化百分比所示數值減少2~15%左右。
- 當需比上表更大的減速比進一步減速時，可在電動機與減速機之間安裝減速比為10的中間減速機。
- 當負載包括阻滯或減速機最大允許負載時，并有轉動停止時，請在減速機輸出軸和負載連接處加裝扭矩限制裝置，確保減速機減速正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2~15%.
- Hope to the ratio of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

直角中實減速箱

Right angle solid-shaft reduction gear box



型號:5GU □RT-K Model:5GU □RT-K

90型 CAD 尺寸

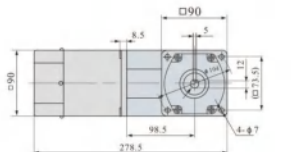
Model 90 CAD size

組合：定速電機+直角中實減速箱

質量：5.4kg

Combination: fixed speed motor + right angle solid reduction gear box

Mass: 5.4kg



直角中空減速箱

Right angle hollow-shaft reduction gear box



型號:5GU □RC-K Model:5GU □RC-K

90型 CAD 尺寸

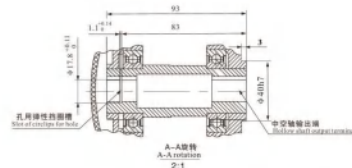
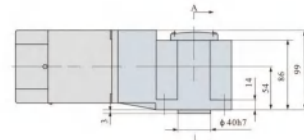
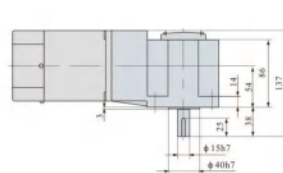
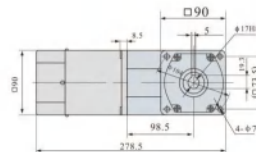
Model 90 CAD size

組合：定速電機+直角中空減速箱

質量：5.3kg

Combination: fixed speed motor + right angle hollow reduction gear box

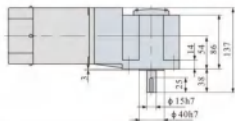
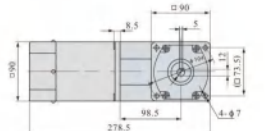
Mass: 5.3kg



90型 CAD 尺寸
Model 90 CAD size

組合：調速電機-直角中實減速箱
質量：5.5kg

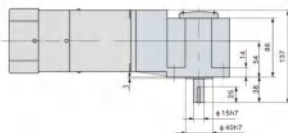
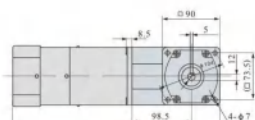
Combination: adjustable speed motor + right angle solid reduction gear box
Mass: 5.5kg



90型 CAD 尺寸
Model 90 CAD size

組合：剎車定速/調速電機-直角中實減速箱
質量：6.1kg

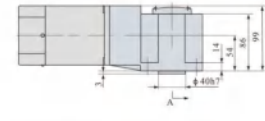
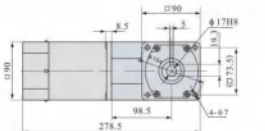
Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Mass: 6.1 kg



90型 CAD 尺寸
Model 90 CAD size

組合：調速電機-直角中空減速箱
質量：5.4kg

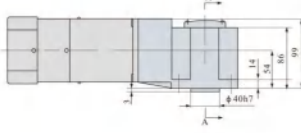
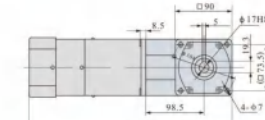
Combination: adjustable speed motor + right angle hollow deceleration gear box
Mass: 5.4kg



90型 CAD 尺寸
Model 90 CAD size

組合：剎車定速調速電機-直角中空減速箱
質量：6kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Mass: 6kg



90/120W

□90mm

電機特性

List of motor characteristics



電機型號 Motor Model	規格 Specs	輸出功率 Output Power W	電源電壓 Voltage V	頻率 Frequency Hz	電流 Current A	起動扭矩 Starting Torque mN.m	額定扭矩 Rated Torque mN.m	額定轉速 Rated Revolution r/min	容量倍率/備用 Capacity/Use μF/VAC		
公司型號 JWD types											
ASIK90GU-CF	感應 Induction	90	單相 1-phase 220	50	0.62	837	8370	670	6700	1350	5/450
ASIK90A-CF	可逆 Reversible			60	0.60	692	6920	554	5540	1550	5/450
ASRK90GU-CF	可逆 Reversible			50	0.68	837	8370	670	6700	1350	6/450
ASRK90A-CF	可逆 Reversible	60	0.72	692	6920	554	5540	1550	6/450		
ASIK90GU-AF	感應 Induction	90	單相 1-phase 110	50	1.25	837	8370	670	6700	1350	20/250
ASIK90A-AF	可逆 Reversible			60	1.2	692	6920	554	5540	1550	18/250
ASRK90GU-AF	可逆 Reversible			50	1.38	837	8370	670	6700	1350	24/250
ASRK90A-AF	可逆 Reversible	60	1.5	692	6920	554	5540	1550	24/250		
ASIK90GU-UF	—	90	三相 3-phase 380	50	0.32	837	8370	670	6700	1350	—
ASIK90A-UF	—			60	0.3	692	6920	554	5540	1500	—
ASRK90GU-SF	—			50	0.55	837	8370	670	6700	1350	—
ASRK90A-SF	—	60	0.48	692	6920	554	5540	1500	—		
ASIK120GU-CF	感應 Induction	120	單相 1-phase 220	50	0.85	1137	11370	910	9100	1350	6/450
ASIK120A-CF	可逆 Reversible			60	0.82	955	9550	764	7640	1500	6/450
ASRK120GU-CF	可逆 Reversible			50	0.95	1137	11370	910	9100	1350	8/450
ASRK120A-CF	可逆 Reversible	60	1.0	955	9550	764	7640	1500	8/450		
ASIK120GU-AF	感應 Induction	120	單相 1-phase 110	50	1.7	1137	11370	910	9100	1350	24/250
ASIK120A-AF	可逆 Reversible			60	1.65	955	9550	764	7640	1500	24/250
ASRK120GU-AF	可逆 Reversible			50	1.9	1137	11370	910	9100	1350	30/250
ASRK120A-AF	可逆 Reversible	60	2.1	955	9550	764	7640	1500	30/250		
ASRK120GU-UF	—	120	三相 3-phase 380	50	0.34	1137	11370	910	9100	1350	—
A.SRK120A-UF	—			60	0.31	955	9550	764	7640	1500	—
ASRK120GU-SF	—			50	0.59	1137	11370	910	9100	1350	—
ASRK120A-SF	—	60	0.54	955	9550	764	7640	1500	—		

■ 上表參數是指電機單獨，不附加任何負載裝置。
■ 電機額定轉速、額定電流允許在 ±5% 範圍內變換。

■ Parameters in above table refer to motor alone, without any load device.
■ Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

Allowable load for the gear motor

減速參數 Geared-down parameter	同步轉速/r/min Synchronous speed	500	300	250	200	150	120	100	75	60	50	45	37.5	30	25	20	15	12.5	10	8	7.5	6	5	3
		減速比 ratio																						
90W	kg.cm	15.7	26.5	31.5	39.4	52.5	65	77.1	94.6	118	141	170	189	200										
	N.m	1.54	2.6	3.1	3.86	5.15	6.44	7.66	9.28	11.6	13.9	16.7	18.5	19.6										
120W	kg.cm	21.5	36	42	54	70	87.5	98	124	148	189	200												
	N.m	2.11	3.52	4.13	5.28	6.88	8.59	9.6	12.4	14.5	18.5	19.6												

- 轉速是以電動機的同步轉速為基準以減速比計算出的數值。實際轉速隨負載大小變化而比計算數值減少 2~15% 左右。
- 當負載大於上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比為 100 的中間減速機。
- 當負載短於減速電機最大允許負載時，並有增轉情況存在時，請在減速機輸出軸與電動機輸出軸處加裝任意限制裝置，確保齒輪軸線穩定正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

直角中实减速箱

Right angle solid-shaft reduction gear box



型号:5GU □RT-K Model:5GU □RT-K

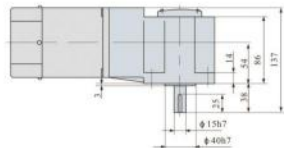
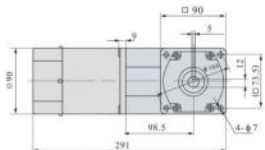
90型 CAD 尺寸

Model 90 CAD size

组合: 定速电机+直角中实减速箱

質量: 5.9kg

Combination: fixed speed motor + right angle solid reduction gear box
Mass: 5.9kg



直角中空减速箱

Right angle hollow-shaft reduction gear box



型号:5GU □RC-K Model:5GU □RC-K

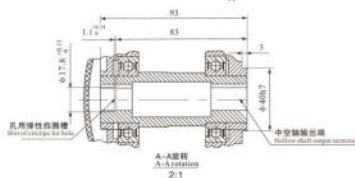
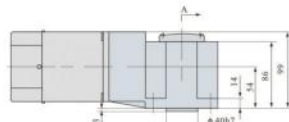
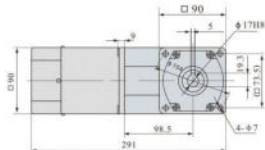
90型 CAD 尺寸

Model 90 CAD size

组合: 定速电机+直角中空减速箱

質量: 5.8kg

Combination: fixed speed motor + right angle hollow reduction gear box
Mass: 5.8kg



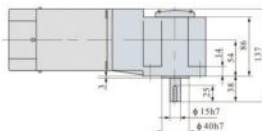
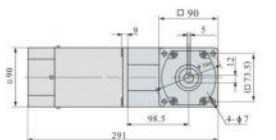
90型 CAD 尺寸

Model 90 CAD size

组合: 调速电机+直角中实减速箱

質量: 6kg

Combination: adjustable speed motor + right angle solid reduction gear box
Mass: 6kg



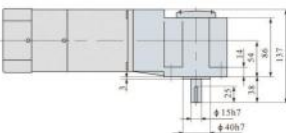
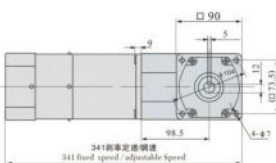
90型 CAD 尺寸

Model 90 CAD size

组合: 制车速调速电机+直角中实减速箱

質量: 6.6kg

Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Mass: 6.6 kg



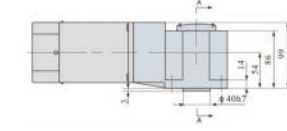
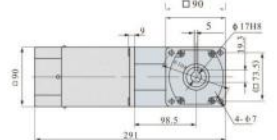
90型 CAD 尺寸

Model 90 CAD size

组合: 调速电机+直角中空减速箱

質量: 5.9kg

Combination: adjustable speed motor + right angle hollow deceleration gear box
Mass: 5.9kg



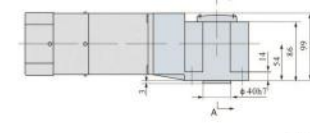
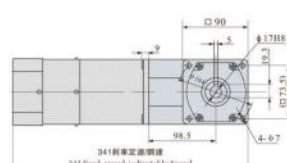
90型 CAD 尺寸

Model 90 CAD size

组合: 制车速调速电机+直角中空减速箱

質量: 6.5kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Mass: 6.5kg



120/140W

□100mm

电机特性

List of motor characteristics



电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动扭矩 Starting Torque mNm, g.c.m	额定扭矩 Rated Torque mNm, g.c.m	额定转速 Rated Revolution r/min	电容容量/耐压 Capacity/Ve μF/VAC		
公司型號 JWD types											
A6IK120GU-CF A6IK120A-CF	感應 Induction	120	單相 1-phase 220	50	1.0	1100	11000	880	8800	1350	6/450
				60	1.0	925	9250	740	7400	1550	6/450
A6RK120GU-CF A6RK120A-CF	可逆 Reversible			60	1.4	1225	12250	980	9800	1550	8/450
A6IK120GU-AF A6IK120A-AF	感應 Induction	120	單相 1-phase 110	50	1.7	1100	11000	880	8800	1350	30/250
				60	1.6	925	9250	740	7400	1550	28/250
A6RK120GU-AF A6RK120A-AF	可逆 Reversible			60	2.0	1225	12250	980	9800	1550	32/250
A6IK120GU-UF A6IK120A-UF	—	120	三相 3-phase 110	50	0.46	1100	11000	880	8800	1350	—
				60	0.42	925	9250	740	7400	1550	—
A6RK120GU-SF A6RK120A-SF	—			60	0.8	1100	11000	880	8800	1350	—
A6IK140GU-CF A6IK140A-CF	感應 Induction	140	單相 1-phase 220	50	1.23	1285	12850	1028	10280	1350	8/450
				60	1.12	1078	10780	863	8630	1550	8/450
A6RK140GU-CF A6RK140A-CF	可逆 Reversible			60	1.3	1285	12850	1028	10280	1350	10/450
A6IK140GU-AF A6IK140A-AF	感應 Induction	140	單相 1-phase 110	50	2.05	1285	12850	1028	10280	1350	32/250
				60	1.9	1078	10780	863	8630	1550	30/250
A6RK140GU-AF A6RK140A-AF	可逆 Reversible			60	2.2	1285	12850	1028	10280	1350	40/250
A6IK140GU-UF A6IK140A-UF	—	140	三相 3-phase 110	50	0.55	1285	12850	1028	10280	1350	—
				60	0.46	1078	10780	863	8630	1550	—
A6RK140GU-SF A6RK140A-SF	—			60	0.88	1285	12850	1028	10280	1350	—
A6IK140A-SF	—	140	三相 3-phase 220	60	0.80	1078	10780	863	8630	1550	—

- 多數參數指電機單獨，不附加任何負載裝置。
- 電機額定轉速、額定電流允許在 ±5%範圍內變動。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

Allowable load for the gear motor

減速參數 Gear-down parameter	同步轉速/rpm Synchronous speed	減速比 ratio																							
		500	300	200	150	120	100	83	75	60	50	41	37	30	25	20	15	12	10	8	7	6	5	3	
最大允許負載 Max allowable load	120W	kg.c.m	21.5	36	44	69	85	103	125	139	172	209	226	251											
		N.m	2.11	3.52	5.28	6.85	8.45	10.2	12.3	13.6	16.9	20.5	22.14	24.6											
140W	kg.c.m	25.1	42	63	73.5	99.2	120	132	147	200	221	238	265												
	N.m	2.46	4.11	6.16	8.02	9.86	11.8	13	14.4	19.7	21.7	23.4	26												

- 轉速是以電動機的同步轉速為基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所算數值減少2~15%左右。
- 當電機轉速比上述數值少時，可在電動機與減速機之間安裝減速比為100%的減速機。
- 當電機負載超過減速電機最大允許負載時，將有轉速儲存故障，將在減速機輸出軸和負載端增加附加制動裝置，確保轉速繼續正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

160/180W

□100mm

电机特性

List of motor characteristics



电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动扭矩 Starting Torque mNm, g.c.m	额定扭矩 Rated Torque mNm, g.c.m	额定转速 Rated Revolution r/min	电容容量/耐压 Capacity/Ve μF/VAC		
公司型號 JWD types											
A6IK160GU-CF A6IK160A-CF	感應 Induction	160	單相 1-phase 220	50	1.25	1575	15750	1260	12600	1350	8/450
				60	1.24	1225	12250	980	9800	1550	8/450
A6RK160GU-CF A6RK160A-CF	可逆 Reversible			60	1.4	1575	15750	1260	12600	1350	10/450
A6IK160GU-AF A6IK160A-AF	感應 Induction	160	單相 1-phase 110	50	2.4	1575	15750	1260	12600	1350	32/250
				60	2.2	1225	12250	980	9800	1550	30/250
A6RK160GU-AF A6RK160A-AF	可逆 Reversible			60	2.6	1575	15750	1260	12600	1350	40/250
A6IK160GU-UF A6IK160A-UF	—	160	三相 3-phase 110	50	0.55	1468	14680	1175	11750	1350	—
				60	0.50	1232	12320	986	9860	1550	—
A6RK160GU-SF A6RK160A-SF	—			60	0.86	1468	14680	1175	11750	1350	—
A6IK180GU-CF A6IK180A-CF	感應 Induction	180	單相 1-phase 220	50	1.50	1837	18370	1470	14700	1350	10/450
				60	1.46	1540	15400	1232	12320	1550	10/450
A6RK180GU-CF A6RK180A-CF	可逆 Reversible			60	1.50	1837	18370	1470	14700	1350	12/450
A6IK180GU-AF A6IK180A-AF	感應 Induction	180	單相 1-phase 110	50	2.8	1837	18370	1470	14700	1350	40/250
				60	2.6	1540	15400	1232	12320	1550	40/250
A6RK180GU-AF A6RK180A-AF	可逆 Reversible			60	2.8	1837	18370	1470	14700	1350	48/250
A6IK180GU-UF A6IK180A-UF	—	180	三相 3-phase 110	50	0.80	1825	18250	1460	14600	1350	—
				60	0.75	1475	14750	1180	11800	1550	—
A6RK180GU-SF A6RK180A-SF	—			60	1.05	1825	18250	1460	14600	1350	—
A6IK180A-SF	—	180	三相 3-phase 220	60	1.0	1475	14750	1180	11800	1550	—

- 多數參數指電機單獨，不附加任何負載裝置。
- 電機額定轉速、額定電流允許在 ±5%範圍內變動。

- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

減速電機允許負載

Allowable load for the gear motor

減速參數 Gear-down parameter	同步轉速/rpm Synchronous speed	減速比 ratio																							
		500	300	200	150	120	100	83	75	60	50	41	37	30	25	20	15	12	10	8	7	6	5	3	
最大允許負載 Max allowable load	160W	kg.c.m	28.7	48	72	87	113	137	157	174	220	261	285	317	386										
		N.m	2.81	4.69	7.04	8.53	11.27	13.53	15.4	17	22.6	25.6	28	31.1	38.6										
180W	kg.c.m	32.3	54	81	94.7	127	153	174	189	237	284	310	344	430											
	N.m	3.17	5.28	7.92	9.28	12.68	15.28	16.7	18.7	23.2	27.8	30.1	33.4	42.2											

- 轉速是以電動機的同步轉速為基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所算數值減少2~15%左右。
- 當電機轉速比上述數值少時，可在電動機與減速機之間安裝減速比為100%的減速機。
- 當負載超過減速電機最大允許負載時，將有轉速儲存故障，將在減速機輸出軸和負載端增加附加制動裝置，確保轉速繼續正常運行。
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction, it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

200/250W

□100mm



电机特性

List of motor characteristics

电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动扭矩 Starting Torque mNm gf.cm	额定扭矩 Rated Torque mNm gf.cm	额定转速 Rated Revolution r/min	容量系数/阻 Capacity/Re		
公司型号 JWD types									μ F/VAC		
A6K200GU-CF A6K200A-CF	感应 Induction	200	单相 1-phase 220	50	1.55	1485	14850	1414	14140	1350	8/450
A6K200GU-CF A6K200A-CF	可逆 Reversible			60	1.5	1294	12940	1232	12320	1550	8/450
A6K200GU-CF A6K200A-CF	可逆 Reversible	200	单相 1-phase 110	50	1.55	1485	14850	1414	14140	1350	10/450
A6K200GU-CF A6K200A-CF	可逆 Reversible			60	1.5	1294	12940	1232	12320	1550	10/450
A6K200GU-AF A6K200A-AF	感应 Induction	200	单相 1-phase 110	50	3.0	1485	14850	1414	14140	1350	32/250
A6K200GU-AF A6K200A-AF	可逆 Reversible			60	2.8	1294	12940	1232	12320	1550	30/250
A6K200GU-AF A6K200A-AF	可逆 Reversible	200	三相 3-phase 380	50	3.0	1485	14850	1414	14140	1350	40/250
A6K200GU-AF A6K200A-AF	可逆 Reversible			60	2.8	1294	12940	1232	12320	1550	36/250
A6K200GU-UF A6K200A-UF	—	200	三相 3-phase 380	50	0.9	1600	16000	1450	14500	1350	—
A6K200GU-UF A6K200A-UF	—			60	0.87	1386	13860	1260	12600	1550	—
A6K200GU-SF A6K200A-SF	—	200	三相 3-phase 220	50	1.15	1600	16000	1450	14500	1350	—
A6K200GU-SF A6K200A-SF	—			60	1.1	1386	13860	1260	12600	1550	—
A6K250GU-CF A6K250A-CF	感应 Induction	250	单相 1-phase 220	50	1.6	2020	20200	1837	18370	1350	10/450
A6K250GU-CF A6K250A-CF	可逆 Reversible			60	1.55	1700	17000	1540	15400	1550	10/450
A6K250GU-CF A6K250A-CF	可逆 Reversible	250	单相 1-phase 110	50	1.6	2020	20200	1837	18370	1350	12/450
A6K250GU-CF A6K250A-CF	可逆 Reversible			60	1.55	1700	17000	1540	15400	1550	12/450
A6K250GU-AF A6K250A-AF	感应 Induction	250	单相 1-phase 110	50	3.2	2020	20200	1837	18370	1350	40/250
A6K250GU-AF A6K250A-AF	可逆 Reversible			60	3.0	1700	17000	1540	15400	1550	40/250
A6K250GU-AF A6K250A-AF	可逆 Reversible	250	三相 3-phase 380	50	3.2	2020	20200	1837	18370	1350	48/250
A6K250GU-AF A6K250A-AF	可逆 Reversible			60	3.2	1700	17000	1540	15400	1550	48/250
A6K250GU-UF A6K250A-UF	—	250	三相 3-phase 380	50	1.3	2022	20220	1840	18400	1350	—
A6K250GU-UF A6K250A-UF	—			60	1.2	1760	17600	1600	16000	1550	—
A6K250GU-SF A6K250A-SF	—	250	三相 3-phase 220	50	1.21	2022	20220	1840	18400	1350	—
A6K250GU-SF A6K250A-SF	—			60	1.15	1760	17600	1600	16000	1550	—

● 上表参数指电机额定值，不附加任何负载装置。
● 电机额定转速、额定电流允许在 ±5% 范围内变动。

● Parameters in above table refer to motor alone, without any load device.
● Permissible change in rated speed and rated current of the motor is within the range of ±5%.

减速电机允许负载

Allowable load for the gear motor

减速参数 Geared-down parameter	同步转速/r/m Synchronous speed	转速比 ratio																							
		5	3	5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250		
最大允许负载 Max allowable load	200W	kg.cm N.m	39.4 3.86	66 6.44	89.8 8.8	119 11.7	149 14.5	189 18.5	214 21.0	239 23.4	289 29.3	358 35.1	435 42.6												440 43
	250W	kg.cm N.m	49.3 4.83	82.1 8.1	112 11	149 14.6	189 18.3	224 22.2	268 26.4	298 29.3	375 36.6	438 43												440 43	

● 转速是以电机的同步转速为基准除以减速比而算出的数值。实际转速随负载大小变化而比所示数值减少2-15%左右。
● 希望以上表格的减速比进一步减速时，可在电机轴端或减速机内安装减速比为100的中阻减速器。
● 当负载扭矩超过减速电机最大允许负载扭矩时，并有增转矩及存在时，请在减速机输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
● The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2-15%.
● Hope in the table of the reduction ratio is greater than the further reduction, it will be installed between the motor and the reducer reduction ratio of 10 of the middle of the reducer.
● When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

370W

□100mm



电机特性

List of motor characteristics

电机型号 Motor model	规格 Specs	输出功率 Output Power W	电源电压 Voltage V	频率 Frequency Hz	电流 Current A	启动扭矩 Starting Torque mNm gf.cm	额定扭矩 Rated Torque mNm gf.cm	额定转速 Rated Revolution r/min	容量系数/阻 Capacity/Re		
公司型号 JWD types									μ F/VAC		
A6K370GU-CF A6K370A-CF	感应 Induction	370	单相 1-phase 220	50	2.3	2944	29440	2560	25600	1350	15/450
A6K370GU-CF A6K370A-CF	可逆 Reversible			60	2.1	2622	26220	2280	22880	1550	15/450
A6K370GU-CF A6K370A-CF	可逆 Reversible	370	单相 1-phase 110	50	2.3	2944	29440	2560	25600	1350	15/450
A6K370GU-CF A6K370A-CF	可逆 Reversible			60	2.1	2622	26220	2280	22880	1550	15/450
A6K370GU-AF A6K370A-AF	感应 Induction	370	单相 1-phase 110	50	3.0	2944	29440	2560	25600	1350	32/250
A6K370GU-AF A6K370A-AF	可逆 Reversible			60	2.8	2622	26220	2280	22880	1550	30/250
A6K370GU-AF A6K370A-AF	可逆 Reversible	370	三相 3-phase 380	50	3.0	2944	29440	2560	25600	1350	40/250
A6K370GU-AF A6K370A-AF	可逆 Reversible			60	2.8	2622	26220	2280	22880	1550	36/250
A6K370GU-UF A6K370A-UF	—	370	三相 3-phase 380	50	1.4	3018	30180	2624	26240	1350	—
A6K370GU-UF A6K370A-UF	—			60	1.2	2680	26800	2330	23300	1550	—
A6K370GU-SF A6K370A-SF	—	370	三相 3-phase 220	50	2.5	3018	30180	2624	26240	1350	—
A6K370GU-SF A6K370A-SF	—			60	2.0	2680	26800	2330	23300	1550	—

● 上表参数指电机额定值，不附加任何负载装置。
● 电机额定转速、额定电流允许在 ±5% 范围内变动。

● Parameters in above table refer to motor alone, without any load device.
● Permissible change in rated speed and rated current of the motor is within the range of ±5%.

减速电机允许负载

Allowable load for the gear motor

减速参数 Geared-down parameter	同步转速/r/m Synchronous speed	转速比 ratio																				
		3	5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250
最大允许负载 Max allowable load	370W	kg.cm N.m	62.2 6.22	106 10.4	142 14.0	190 18.6	238 23.3	285 28	342 33.6	418 41.3												440 43

● 转速是以电机的同步转速为基准除以减速比而算出的数值。实际转速随负载大小变化而比所示数值减少2-15%左右。
● 希望以上表格的减速比进一步减速时，可在电机轴端或减速机内安装减速比为100的中阻减速器。
● 当负载扭矩超过减速电机最大允许负载扭矩时，并有增转矩及存在时，请在减速机输出轴和负载连接处加装扭矩限制装置，确保齿轮减速箱正常运行。
● The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of Actual speed will vary the size of the load changes in less than the values shown in 2-15%.
● Hope in the table of the reduction ratio is greater than the further reduction, it will be installed between the motor and the reducer reduction ratio of 10 of the middle of the reducer.
● When the load torque exceeds the maximum allowable load torque gear motor, and a locked rotor situation exists, please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

直角中实减速箱

Right angle solid-shaft reduction gear box



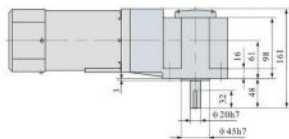
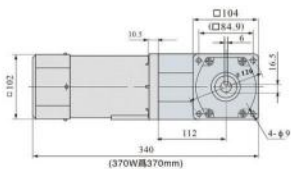
型号: 6GU □ RT-K Model: 6GU □ RT-K

100型 CAD 尺寸 Model 100 CAD size

组合: 定速电机+直角中实减速箱

质量: 8.8kg

Combination: fixed speed motor + right angle solid reduction gear box
Mass: 8.8kg



直角中空减速箱

Right angle hollow-shaft reduction gear box



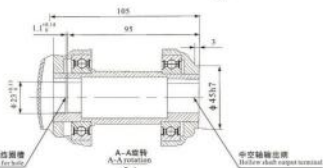
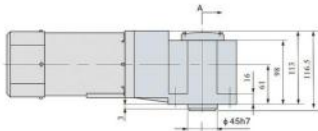
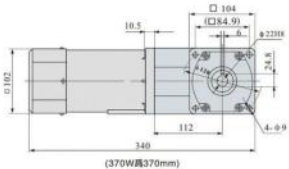
型号: 6GU □ RC-K Model: 6GU □ RC-K

100型 CAD 尺寸 Model 100 CAD size

组合: 定速电机+直角中空减速箱

质量: 8.7kg

Combination: fixed speed motor + right angle hollow reduction gear box
Mass: 8.7kg

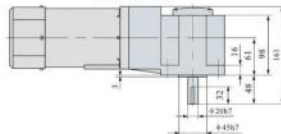
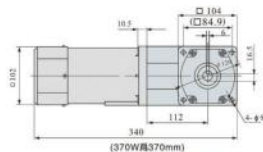


100型 CAD 尺寸 Model 100 CAD size

组合: 调速电机+直角中实减速箱

质量: 8.9kg

Combination: adjustable speed motor + right angle solid reduction gear box
Mass: 8.9kg

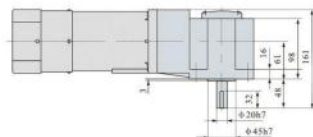


100型 CAD 尺寸 Model 100 CAD size

组合: 调速定速调速电机+直角中实减速箱

质量: 9.5kg

Combination: fixed speed / adjustable speed brake motor + right angle solid reduction gear box
Mass: 9.5kg

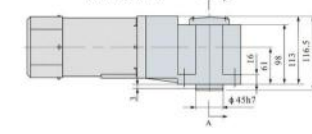
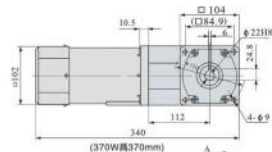


100型 CAD 尺寸 Model 100 CAD size

组合: 调速电机+直角中空减速箱

质量: 8.8kg

Combination: adjustable speed motor + right angle hollow deceleration gear box
Mass: 8.8kg

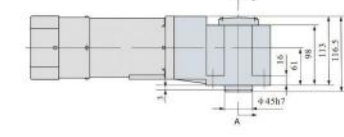
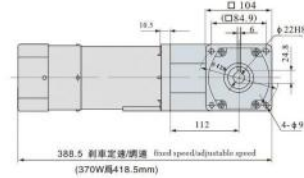


100型 CAD 尺寸 Model 100 CAD size

组合: 调速定速调速电机+直角中空减速箱

质量: 9.4kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Mass: 9.4kg



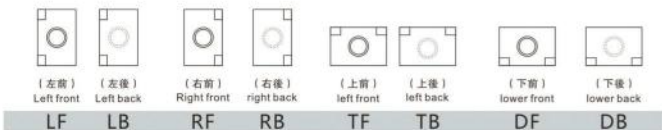
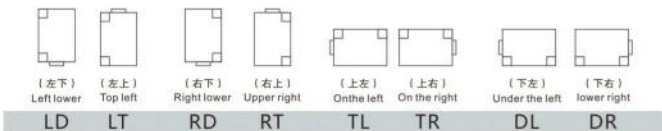
微特馬達配線盒方向選定

Micro motor wiring box direction selected



入線口方向

Wire inlet direction



二極電機

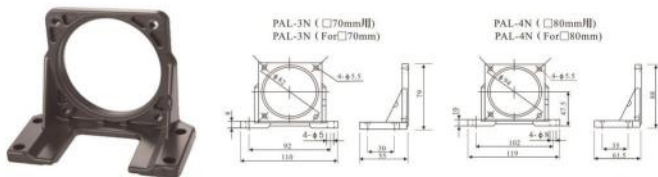
Two-pole motor

電機性能參數 Motor performance parameter

機種 Kind	出力 Output Force (kg·cm)	電壓 Voltage (V)	頻率 Frequency (Hz)	極數 Poles (P)	額定轉速 Rated Revolution (rpm)	起動轉矩 Starting Torque (kg·cm)	額定轉矩 Rated Torque (kg·cm)	額定電流 Rated Current (A)	電容量 Capacitance (μF)	額定時間 Rated Time
A41K25A-D	25	1 φ 220	50	2	2800	1.1	0.85	0.25	2.5/450	連續 Continuum
A51K40A-D	40	1 φ 220	50	2	2800	1.5	1.39	0.28	3.0/450	連續 Continuum
A51K60A-DF	60	1 φ 220	50	2	2800	1.9	2.1	0.49	4.0/450	連續 Continuum
A51K90A-DF	90	1 φ 220	50	2	2800	4.2	2.95	0.94	8.0/450	連續 Continuum
A51K90A-EF	90	3 φ 220/380	50	2	2800	10.8	3.13	0.28	—	連續 Continuum
A51K120A-DF	120	1 φ 220	50	2	2800	4.0	3.13	0.82	8.0/450	連續 Continuum

特殊配件 Special accessories

馬達安裝用L型腳座 L shape foot seat installed for motor



延長綫

Prolonging line

使用于速度馬達和控制器之間的延長綫

Prolonging line used between speed motor and controller

馬達外銷產品

Additional sale product

買控制櫃時，附有0.5m的延長綫。如需要加長時，請額外購買。

When buying the controller, there will be prolonging line with 0.5 m. If it needs to be prolonged, please buy it additionally.

延長綫的長度及產品名稱，請參照如下圖。
The length of prolonging line and the name of the product, please refer to the following figure.

產品名稱

The name of the product

產品名稱 The name of the product	L (延長綫長度) L (the length of the prolonging line)
MC-01	1.0m
MC-02	2.0m
MC-03	3.0m

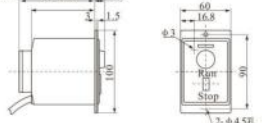
DIMENSION 單位: m Unit: m



US-52 速度控制器
US-52 Speed controller

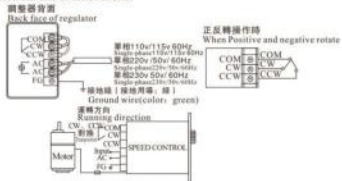


尺寸圖 Dimensions 97max. 11.5



控制器接線圖

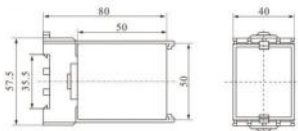
Connection diagrams of the controller



SS-22 速度控制器
SS-22 Speed controller

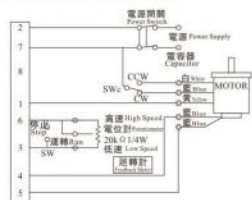


尺寸圖 Dimensions



控制器接線圖

Connection diagrams of the controller



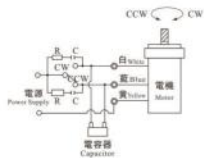
注：以上“接線圖”僅供參考
Note: "Connection diagrams" is for reference only.

接線方式

Wiring method

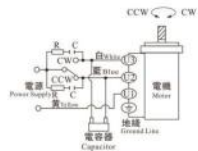
單相電機接線圖

Single-phase motor wiring diagram



單相配端子箱電機接線圖

Single-phase motor with terminal box wiring diagram



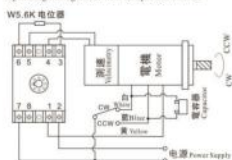
單相制車馬達接線圖

Single-phase brake motor wiring diagram



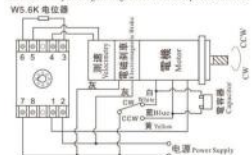
調速電機配SS速度控制器

Speed regulating motor with SS speed controller



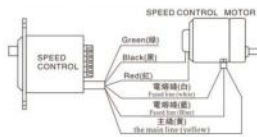
制車帶調速電機配SS速度控制器

Brake band speed regulating motor with SS speed controller



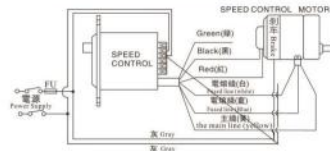
調速電機配US速度控制器

Speed regulating motor with US speed controller



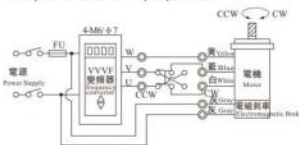
制車帶調速電機配US速度控制器

Brake band speed regulating motor with US speed controller



三相制車電機配變頻器

Three-phase brake motor with frequency converter



三相制車馬達接線圖

Three-phase brake motor wiring diagram



圖中R、C為阻容吸收回路，確保電機及相關控制部件可靠工作

The R and C circuit is resistance-capacitance absorption circuit, which ensures the reliable operation of the motor and relative control components.
(R: 5-510Ω C: 0.1-0.22 F 250VAC/450VAC)

AH	18	400	30	SZ	B	G1	LB
機型代號 Model code	出力軸直徑 Output shaft dia	馬力 Horsepower	減速比 Speed-reducing ratio	電壓極數 voltage/pole	附件 Accessory	入線口方向 WIRE INLET	
AH: 卧式 AH: horizontal AV: 立式 AV: vertical	18 200W 22 400W 28 550W 32 750W 40 1100W 50 1500W 2200W 3700W	100W 200W 400W 550W 750W 1100W 1500W 2200W 3700W	1.3...1:1800	A-1 φ110V4P C-1 φ220V4P S-3 φ220V4P U-3 φ380V4P W-3 φ440V4P Y-3 φ220-240/ 380-440V4P Z- 縮短型減速電機 Light load type	B: DC90V安全剎車器 BRAKE UNIT YB: 手釋放剎車器 WITH RELEASE BRAKE UNIT D: DC24V送電剎車器 DC24V BRAKE	T: 向上 TOP D: 向下 DOWN F: 向前 FORWARD B: 向後 BACK L: 向左 LEFT R: 向右 RIGHT	
						依出力軸看配線盒方向 VIEW FROM OUTPUT SHAFT	
						G1: 左方向 LEFT (STD) G2: 右方向 RIGHT G3: 上方角 UPPER G4: 下方角 LOWER	



配線盒方向選定
(TERMINAL BOX DIRECTION)

TYPE	G1-左方向 LEFT SIDE	G2-右方向 RIGHT SIDE	G3-上方角 UPPER SIDE	G4-下方角 LOWER SIDE
AH型 AH TYPE				
AV型 AV TYPE				

入線口方向
(WIRE INLET DIRECTION)

LD	LT	RD	RT	TL	TR	DL	DR
LF	LB	RF	RB	TF	TB	DF	DB

減速機與透氣塞安裝位置示意圖
(REDUCER AND VENTILATION INSTALLATION)

AH 機殼透氣塞安裝 EXAMPLES			
AV 機殼透氣塞安裝 EXAMPLES			



0.1KW

AH 型卧式三相鋁殼 (剎車) 馬達減速機

AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

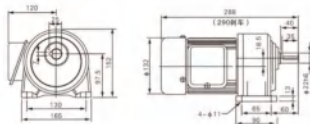
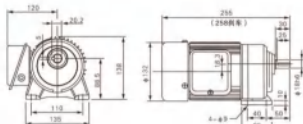
單位: mm

標準型 AH-18-100-3-60

Duty Type AH-18-100-3-60
輕負載縮框型 AH-18-100-70-200
Light load miniature frame AH-18-100-70-200

標準型 AH-22-100-60-200

Normal Duty Type AH-22-100-60-200



0.2KW

馬達尺寸圖 Dimensions chart

單位: mm

AH 型卧式三相鋁殼 (剎車) 馬達減速機

AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

標準型 AH-18-200-3-10

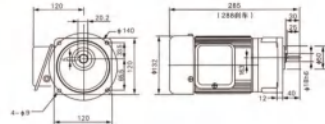
Normal Duty Type AH-18-200-3-10
輕負載縮框型 AH-18-200-15-90
Light load miniature frame AH-18-200-15-90

AV 型立式三相鋁殼 (剎車) 馬達減速機

AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

標準型 AV-18-200-3-10

Normal Duty Type AV-18-200-3-10
輕負載縮框型 AV-18-200-15-90
Light load miniature frame AV-18-200-15-90

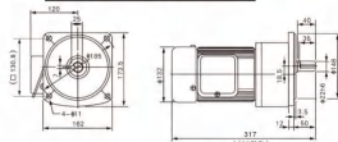
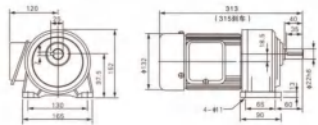


標準型 AH-22-200-15-90

Normal Duty Type AH-22-200-15-90
輕負載縮框型 AH-22-200-100-200
Light load miniature frame AH-22-200-100-200

標準型 AV-22-200-15-90

Normal Duty Type AV-22-200-15-90
輕負載縮框型 AV-22-200-100-200
Light load miniature frame AV-22-200-100-200



AV 型立式三相鋁殼 (剎車) 馬達減速機

AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

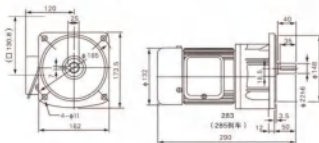
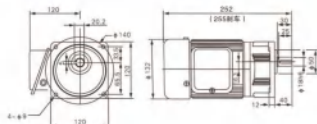
馬達尺寸圖 Dimensions chart

標準型 AV-18-100-3-60

Normal Duty Type AV-18-100-3-60
輕負載縮框型 AV-18-100-70-200
Light load miniature frame AV-18-100-70-200

標準型 AV-22-100-60-200

Normal Duty Type AV-22-100-60-200

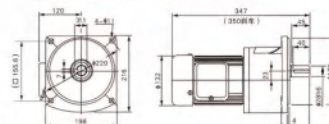
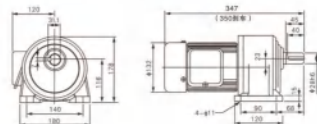


標準型 AH-28-200-100-200

Normal Duty Type AH-28-200-100-200

標準型 AV-28-200-100-200

Normal Duty Type AV-28-200-100-200





0.4KW

AH 型卧式三相铝壳 (刹车) 马达减速机

AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

马达尺寸图 Dimensions chart

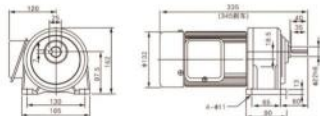
单位: mm

标准型 AH-22-400-3-10

Normal Duty Type AH-22-400-3-10

轻负载缩框型 AH-22-400-15-90

Light load miniature frame AH-22-400-15-90

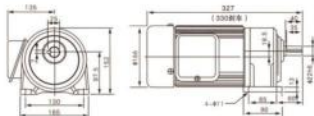


标准型 AH-22-400-3-10

Normal Duty Type AH-22-400-3-10

轻负载缩框型 AH-22-400-15-90

Light load miniature frame AH-22-400-15-90

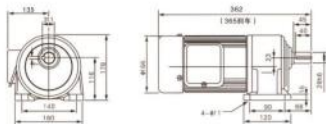


标准型 AH-28-400-15-90

Normal Duty Type AH-28-400-15-90

轻负载缩框型 AH-28-400-100-200

Light load miniature frame AH-28-400-100-200



标准型 AH-32-400-100-200

Normal Duty Type AH-32-400-100-200



注: 缩框型为轻负载, 在大惯性场合中使用, 属不正规设计, 如非必要请勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



0.4KW

AV 型立式三相铝壳 (刹车) 马达减速机

AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

马达尺寸图 Dimensions chart

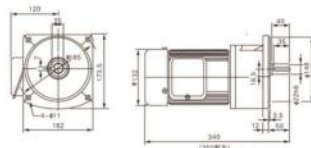
单位: mm

标准型 AV-22-400-3-10

Normal Duty Type AV-22-400-3-10

轻负载缩框型 AV-22-400-15-90

Light load miniature frame AV-22-400-15-90

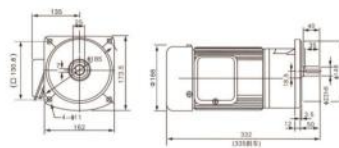


标准型 AV-22-400-3-10

Normal Duty Type AV-22-400-3-10

轻负载缩框型 AV-22-400-15-90

Light load miniature frame AV-22-400-15-90

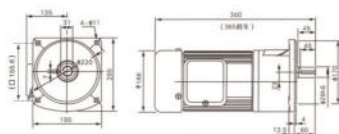


标准型 AV-28-400-15-90

Normal Duty Type AV-28-400-15-90

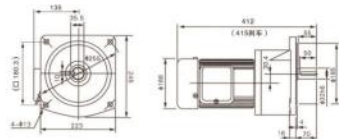
轻负载缩框型 AV-28-400-100-200

Light load miniature frame AV-28-400-100-200



标准型 AV-32-400-100-200

Normal Duty Type AV-32-400-100-200



注: 缩框型为轻负载, 在大惯性场合中使用, 属不正规设计, 如非必要请勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



0.55KW

AH 型卧式三相鋁殼 (剎車) 馬達減速機

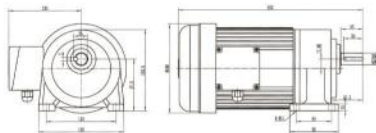
AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位: mm

輕負載縮框型 AH-22-550-3~25

Light load miniature frame AH-22-550-3~25

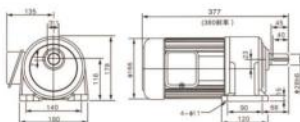


標準型 AH-28-550-3~25

Normal Duty Type AH-28-550-3~25

輕負載縮框型 AH-28-550-30~120

Light load miniature frame AH-28-550-30~120



標準型 AH-32-550-30~120

Normal Duty Type AH-32-550-30~120

輕負載縮框型 AH-32-550-130~200

Light load miniature frame AH-32-550-130~200



注: 縮框型為輕負載, 無大慣性場合中使用。為不正當設計, 如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



0.55KW

AV 型立式三相鋁殼 (剎車) 馬達減速機

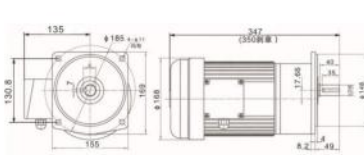
AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位: mm

輕負載縮框型 AV-22-550-3~25

Light load miniature frame AV-22-550-3~25

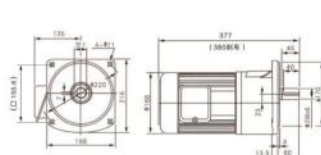


標準型 AV-28-550-3~25

Normal Duty Type AV-28-550-3~25

輕負載縮框型 AV-28-550-30~120

Light load miniature frame AV-28-550-30~120

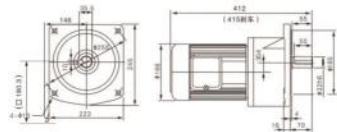


標準型 AV-32-550-30~120

Normal Duty Type AV-32-550-30~120

輕負載縮框型 AV-32-550-130~200

Light load miniature frame AV-32-550-130~200



注: 縮框型為輕負載, 無大慣性場合中使用。為不正當設計, 如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



0.75KW

AH 型卧式三相鋁殼 (剎車) 馬達減速機

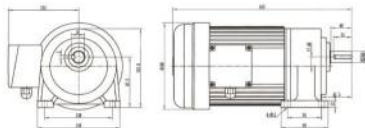
AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE) GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位: mm

輕負載縮短框型 AH-22-750-3-25

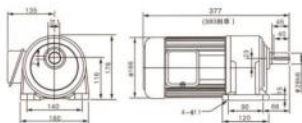
Light load miniature frame AH-22-750-3-25



標準型 AH-28-750-3-25

輕負載縮短框型 AH-28-750-30-120

Light load miniature frame AH-28-750-30-120

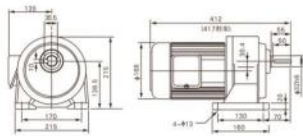


標準型 AH-32-750-30-120

Normal Duty Type AH-32-750-30-120

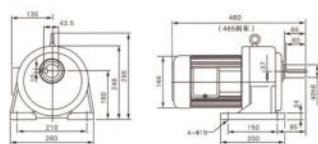
輕負載縮短框型 AH-32-750-130-200

Light load miniature frame AH-32-750-130-200



標準型 AH-40-750-130-200

Normal Duty Type AH-40-750-130-200



注: 縮短型為輕負載, 無大慣性場合中使用, 非不當設計, 如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



0.75KW

AV 型立式三相鋁殼 (剎車) 馬達減速機

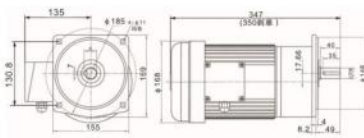
AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE) GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位: mm

輕負載縮短框型 AV-22-750-3-25

Light load miniature frame AV-22-750-3-25

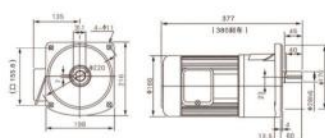


標準型 AV-28-750-3-25

Normal Duty Type AV-28-750-3-25

輕負載縮短框型 AV-28-750-30-120

Light load miniature frame AV-28-750-30-120

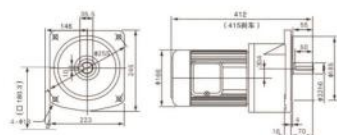


標準型 AV-32-750-30-120

Normal Duty Type AV-32-750-30-120

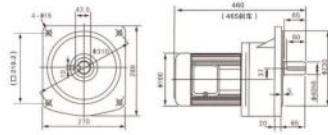
輕負載縮短框型 AV-32-750-130-200

Light load miniature frame AV-32-750-130-200



標準型 AV-40-750-100-200

Normal Duty Type AV-40-750-100-200



注: 縮短型為輕負載, 無大慣性場合中使用, 非不當設計, 如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



1.1 KW

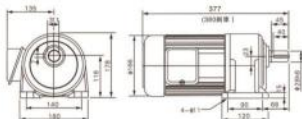
AH 型卧式三相鋁殼（剎車）馬達減速機

AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位: mm

標準型 AH-28-1100-3-25
Normal Duty Type AH-28-1100-3-25
輕負載縮短型 AH-28-1100-30-100
Light load miniature frame AH-28-1100-30-100



標準型 AH-32-1100-30-50
Normal Duty Type AH-32-1100-30-50
輕負載縮短型 AH-32-1100-60-160
Light load miniature frame AH-32-1100-60-160



標準型 AH-40-1100-130-200

Normal Duty Type AH-40-1100-130-200



注：縮短型為輕負載，無大慣性場合中使用。為不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



1.1 KW

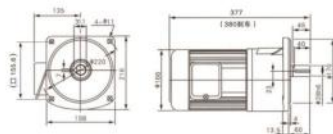
AV 型立式三相鋁殼（剎車）馬達減速機

AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

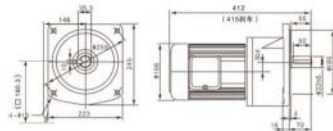
馬達尺寸圖 Dimensions chart

單位: mm

標準型 AV-28-1100-3-25
Normal Duty Type AV-28-1100-3-25
輕負載縮短型 AV-28-1100-30-100
Light load miniature frame AV-28-1100-30-100

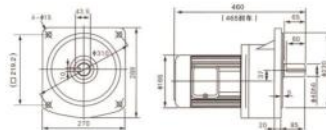


標準型 AV-32-1100-30-50
Normal Duty Type AV-32-1100-30-50
輕負載縮短型 AV-32-1100-60-160
Light load miniature frame AV-32-1100-60-160



標準型 AV-40-1100-130-200

Normal Duty Type AV-40-1100-130-200



注：縮短型為輕負載，無大慣性場合中使用。為不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



1.5KW

AH 型卧式三相铝壳 (刹车) 马达减速机

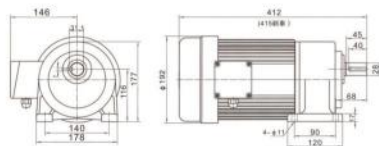
AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE) GEAR MOTOR

马达尺寸图 Dimensions chart

单位: mm

轻负载缩框型 AH-28-1500-3-25

Light load miniature frame AH-28-1500-3-25

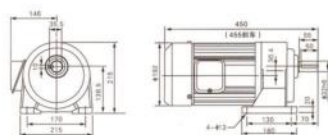


标准型 AH-32-1500-3-30

Normal Duty Type AH-32-1500-3-30

轻负载缩框型 AH-32-1500-40-90

Light load miniature frame AH-32-1500-40-90



标准型 AH-40-1500-35~100

Normal Duty Type AH-40-1500-35~100

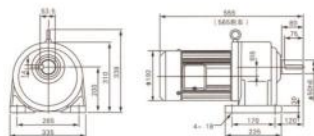
轻负载缩框型 AH-40-1500-110-200

Light load miniature frame AH-40-1500-110-200



标准型 AH-50-1500-110-200

Normal Duty Type AH-50-1500-110-200



注: 缩框型为轻负载, 在大惯性场合中使用, 属不正交设计, 如非必要请勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



1.5KW

AV 型立式三相铝壳 (刹车) 马达减速机

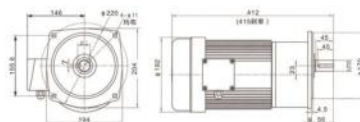
AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE) GEAR MOTOR

马达尺寸图 Dimensions chart

单位: mm

轻负载缩框型 AV-28-1500-3-25

Light load miniature frame AV-28-1500-3-25

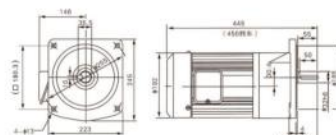


标准型 AV-32-1500-3-30

Normal Duty Type AV-32-1500-3-30

轻负载缩框型 AV-32-1500-40-100

Light load miniature frame AV-32-1500-40-100

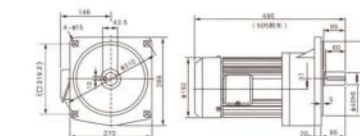


标准型 AV-40-1500-35~100

Normal Duty Type AV-40-1500-35~100

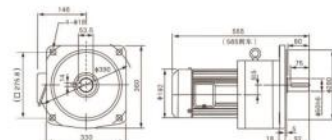
轻负载缩框型 AV-40-1500-110-200

Light load miniature frame AV-40-1500-110-200



标准型 AV-50-1500-110-200

Normal Duty Type AV-50-1500-110-200



注: 缩框型为轻负载, 在大惯性场合中使用, 属不正交设计, 如非必要请勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.



2.2KW

AH 型卧式三相铝壳 (刹车) 马达减速机

AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

马达尺寸图 Dimensions chart

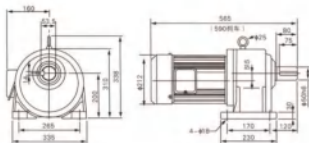
单位: mm

标准型 AH-40-2200-3-40

Normal Duty Type AH-40-2200-3-40
轻负载缩框型 AH-40-2200-50-80
Light load miniature frame AH-40-2200-50-80

标准型 AH-50-2200-50-100

Normal Duty Type AH-50-2200-50-100
轻负载缩框型 AH-50-2200-100-200
Light load miniature frame AH-50-2200-100-200



AV 型立式三相铝壳 (刹车) 马达减速机

AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

马达尺寸图 Dimensions chart

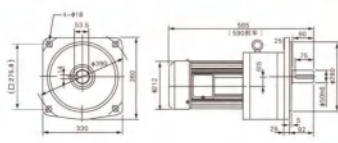
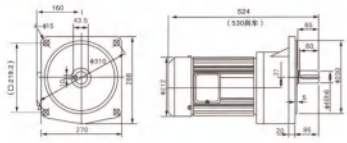
单位: mm

标准型 AV-40-2200-3-40

Normal Duty Type AV-40-2200-3-40
轻负载缩框型 AV-40-2200-50-80
Light load miniature frame AV-40-2200-50-80

标准型 AV-50-2200-50-100

Normal Duty Type AV-50-2200-50-100
轻负载缩框型 AV-50-2200-110-200
Light load miniature frame AV-50-2200-110-200



3.7KW

AH 型卧式三相铝壳 (刹车) 马达减速机

AH HORIZONTAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

马达尺寸图 Dimensions chart

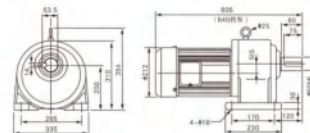
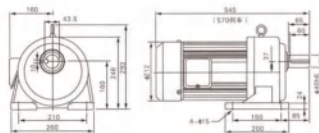
单位: mm

标准型 AH-40-3700-3-10

Normal Duty Type AH-40-3700-3-10
轻负载缩框型 AH-40-15-60
Light load miniature frame AH-40-15-60

标准型 AH-50-3700-15-60

Normal Duty Type AH-50-3700-15-60
轻负载缩框型 AH-50-3700-70-200
Light load miniature frame AH-50-3700-70-200



AV 型立式三相铝壳 (刹车) 马达减速机

AV VERTICAL TYPE WITH ALUMINUM PLATE 3PHASE(BRAKE)GEAR MOTOR

马达尺寸图 Dimensions chart

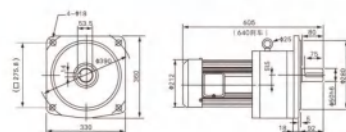
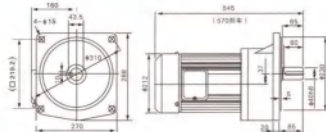
单位: mm

标准型 AV-40-3700-3-10

Normal Duty Type AV-40-3700-3-10
轻负载缩框型 AV-50-3700-15-60
Light load miniature frame AV-50-3700-15-60

标准型 AV-50-3700-15-60

Normal Duty Type AV-50-3700-15-60
轻负载缩框型 AV-50-3700-70-200
Light load miniature frame AV-50-3700-70-200

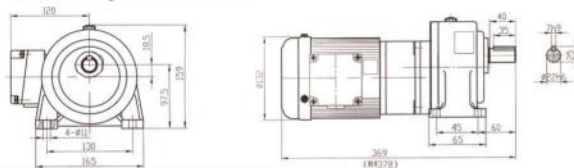


AH、AV组合型三相铝壳(刹车)马达减速机

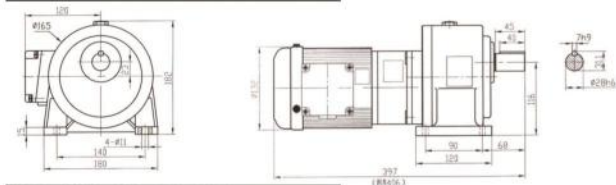
AH、AV combined three-phase aluminum(brake) motor speed reducer

马达尺寸图 Dimensions chart

轻负载缩框型 Light load miniature frame

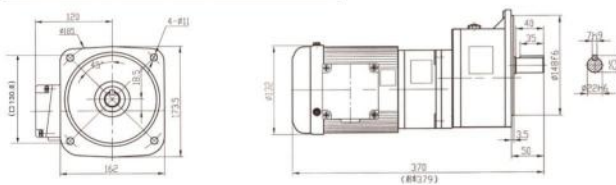


AH28+AH18-100-250-1800



AV22+AV18-100-250-1800

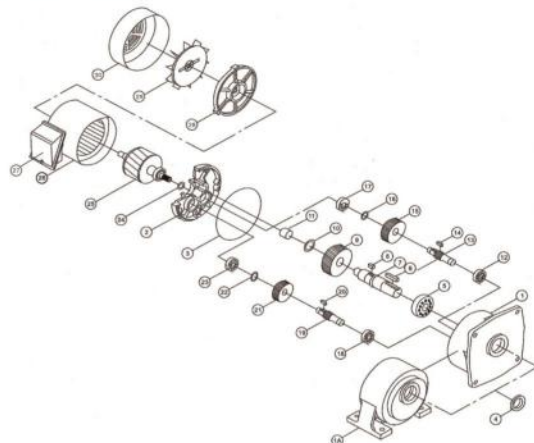
轻负载缩框型 Light load miniature frame



AV28+AV18-100-250-1800



产品结构图 Product Structure Drawing

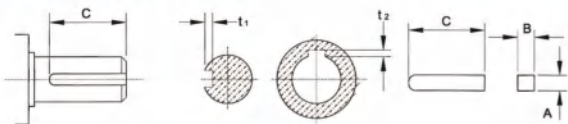


序号 Item	品名 denomination
1	本体 housing
2	本体盖 housing cover
3	O型环 o-ring
4	出力轴油封 oil seal
5	培林 ball bearing
6	键 key
7	出力轴 out put shaft
8	键 key
9	三段大齿轮 3rd main gear
10	扣环 snap ring

序号 Item	品名 denomination
11	培林 ball bearing
12	培林 ball bearing
13	三段大齿轮 3rd main gear
14	键 key
15	二段大齿轮 2rd main gear
16	扣环 snap ring
17	培林 ball bearing
18	培林 ball bearing
19	二段大齿轮 2rd main gear
20	键 key

序号 Item	品名 denomination
21	一段大齿轮 1rd main gear
22	扣环 snap ring
23	培林 ball bearing
24	入力轴油封 oil seal
25	马达轴及转子 motor shaft
26	线圈总成 coil assembly
27	接线盒 wire box
28	马达后盖 Rear cover motor
29	风扇 Fan
30	风罩 Fan cover

键/键槽加工尺寸 (KEY/KEY WAY DIMENSION)



轴径 SHAFT DIA	键 KEY		键槽 KEYWAY			
	新JIS规格 NEW JIS SPEC	旧JIS规格 OLD JIS SPEC	新JIS规格 NEW JIS SPEC (SHAFT/HOLE)	t2	t1	t2
S	AxBxC	AxBxC	t1	t2	t1	t2
φ 11.0	4x4xC	4x4xC	2.5 ⁺⁰ _{+0.1}	1.8 ⁺⁰ _{+0.1}	2.5 ⁺⁰ _{+0.1}	2.0 ⁺⁰ _{+0.1}
φ 14.0	5x5xC	5x5xC	3.0 ⁺⁰ _{+0.1}	2.3 ⁺⁰ _{+0.1}	3.0 ⁺⁰ _{+0.1}	2.5 ⁺⁰ _{+0.1}
φ 18.0	6x6xC	6x6xC	3.5 ⁺⁰ _{+0.1}	2.8 ⁺⁰ _{+0.1}	3.5 ⁺⁰ _{+0.1}	3.0 ⁺⁰ _{+0.1}
φ 19.0	6x6xC	6x6xC	3.5 ⁺⁰ _{+0.1}	2.8 ⁺⁰ _{+0.1}	3.5 ⁺⁰ _{+0.1}	3.0 ⁺⁰ _{+0.1}
φ 22.0	8x7xC	7x7xC	4.0 ⁺⁰ _{+0.1}	3.3 ⁺⁰ _{+0.2}	4.0 ⁺⁰ _{+0.1}	3.5 ⁺⁰ _{+0.1}
φ 24.0	8x7xC	8x7xC	4.0 ⁺⁰ _{+0.2}	3.3 ⁺⁰ _{+0.2}	4.0 ⁺⁰ _{+0.2}	3.5 ⁺⁰ _{+0.2}
φ 28.0	8x7xC	8x7xC	4.0 ⁺⁰ _{+0.2}	3.3 ⁺⁰ _{+0.2}	4.0 ⁺⁰ _{+0.2}	3.5 ⁺⁰ _{+0.2}
φ 32.0	10x8xC	10x8xC	5.0 ⁺⁰ _{+0.2}	3.3 ⁺⁰ _{+0.2}	4.5 ⁺⁰ _{+0.2}	4.0 ⁺⁰ _{+0.2}
φ 40.0	12x8xC	12x8xC	5.0 ⁺⁰ _{+0.2}	3.3 ⁺⁰ _{+0.2}	4.5 ⁺⁰ _{+0.2}	4.0 ⁺⁰ _{+0.2}
φ 45.0	14x9xC	12x8xC	5.5 ⁺⁰ _{+0.2}	3.8 ⁺⁰ _{+0.2}	4.5 ⁺⁰ _{+0.2}	4.0 ⁺⁰ _{+0.2}
φ 50.0	14x9xC	15x10xC	5.5 ⁺⁰ _{+0.2}	3.8 ⁺⁰ _{+0.2}	5.0 ⁺⁰ _{+0.2}	5.0 ⁺⁰ _{+0.2}
φ 55.0	16x10xC	15x10xC	6.0 ⁺⁰ _{+0.2}	4.3 ⁺⁰ _{+0.2}	5.0 ⁺⁰ _{+0.2}	5.5 ⁺⁰ _{+0.2}
φ 65.0	18x11xC	18x12xC	7.0 ⁺⁰ _{+0.2}	4.4 ⁺⁰ _{+0.2}	6.0 ⁺⁰ _{+0.2}	6.5 ⁺⁰ _{+0.2}
φ 75.0	20x12xC	20x13xC	7.5 ⁺⁰ _{+0.2}	4.9 ⁺⁰ _{+0.2}	7.0 ⁺⁰ _{+0.2}	6.5 ⁺⁰ _{+0.2}
φ 90.0	25x14xC	24x16xC	9.0 ⁺⁰ _{+0.2}	5.4 ⁺⁰ _{+0.2}	8.0 ⁺⁰ _{+0.2}	8.5 ⁺⁰ _{+0.2}
φ 100.0	28x16xC	28x18xC	10.0 ⁺⁰ _{+0.2}	6.4 ⁺⁰ _{+0.2}	9.0 ⁺⁰ _{+0.2}	10.0 ⁺⁰ _{+0.2}
φ 115.0	28x16xC	28x18xC	10.0 ⁺⁰ _{+0.2}	6.4 ⁺⁰ _{+0.2}	9.0 ⁺⁰ _{+0.2}	10.0 ⁺⁰ _{+0.2}

相关计算 CALCULATE DATA

(A) 连接系数表 (CONNECTION FACTOR)

链轮 SPROCKET	1.00
齿轮 GEAR	1.25
三角皮带BELT	1.50
平皮带FLAT BELT	2.50

(B) 荷重系数表 (SERVICE FACTOR)

减速机电载等级 LOAD GRADE	每日运转时间(HRS) DAILY OPERATING HOURS			
	1-2	3-8	9-15	16-24
均一负载 UNIFORM LOAD	0.80	0.90	1.20	1.30
中载重冲击负载 MEDIUM IMPACT LOAD	1.00	1.20	1.30	1.50
重载重冲击负载 HEAVY IMPACT LOAD	1.20	1.50	1.75	2.00

(C) 符号说明 (CODE DETAILS)

V=速度 SPEED (M/MIN)	E=效率 EFFICIENCY (%)	1 INCH=2.54cm
I=减速比 RATIO	N2=出力轴转速 (RPM) OUTPUT SHAFT SPEED	1 FOOT=12 INCH
T=输出扭力 (KG-M) OUTPUT TORQUE	D=滚轮直径 (mm) ROLLER DIAMETER	1KW=1000W 1KG=1.34HP
K=连接系数 CONNECTING FACTOR	R=滚轮半径 (mm) ROLLER RADIUS	1KG-M=7.233 FT-LB 1KG-M=86.8 IN-LB
F=荷重系数 SERVICE FACTOR	KW1 (HP1)=入力马力 INPUT CAPACITY	1KG=2.2 LB 1 LB=0.4536KG
W=荷重 (KG) LOAD	KW2 (HP2)=出力马力 OUTPUT CAPACITY	N1=入力轴转速 (r/min) INPUT SHAFT ROTATION SPEED

(D) 基本传动公式 (BASIC FORMULAR)

减速比 RATIO	I=N2/N1
回转速度 ROTATION SPEED (r/min)	N2=V/rD
输出扭矩 OUTPUT TORQUE (KG-M)	T=WxRxK
输入马力 INPUT HORSEPOWER (公制 METRIC)	KW1=NxTx974
输入马力 INPUT HORSEPOWER (英制 INCH)	HP1=NxTx716
输出马力 OUTPUT HORSEPOWER (公制 METRIC)	KW2=KW1xF/E
输出马力 OUTPUT HORSEPOWER (英制 INCH)	HP2=HP1xF/E

(E) 减速机电水平输送场合符号说明及传动公式 (DESCRIPTION AND TRANSMISSION)

输送速度 (r/min) TRANSMISSION SPEED	V	输送带摩擦系数 BELT FRICTION COEFFICIENT	μ
滚轮直径 (mm) ROLLER DIAMETER	D	链轮传动效率 (%) CHAIN DRIVE EFFICIENCY	η1
载重量 (KG) LOAD	W	减速机传动效率 (%) REDUCER TRANSMISSION	η2=0.9
出力轴主链轮齿数 OUTPUT SHAFT TEETH	T1	输送带被动链轮齿数 CONVEYOR PASSIVE SPROCKET TEETH	T2
输送带所需扭力 (KG-M) BELT TORQUE	T1	减速机减速比 REDUCER RATIO	I
减速机出力 (KG-M) REDUCER TORQUE	T2	减速机出力轴回转速度 (r/min) REDUCER OUTPUT SHAFT ROTATION SPEED	N2
荷重系数 SERVICE FACTOR		F 查4-13表 (B) F 输出4-13 TABLE(B)	

输送机回转速度 (r/min) TRANSMISSION SPEED	N1=V/rD
减速机出力轴回转速度 (r/min) REDUCER OUTPUT SHAFT ROTATION SPEED	N2=N2X(I2/T1)
减速机减速比 (1) REDUCER RATIO	50HZ I=1500/N2 60HZ I=1800/N2
输送带所需扭力 (KG-M) BELT TORQUE	T1=WxD/2Xμ/η1
减速机所需扭力 (KG-M) REDUCER TORQUE	T2=I1X(I2/I1)/η2
考虑荷重系数减速电机扭力 GEAR MOTOR TORQUE (SERVICE FACTOR BE CONSIDER)	T3=I3XF
马力 (HP) CAPACITY	HP=I3XN2/716.2

4-2 输出扭矩表 OUTPUT TORQUE

标准型 (NORMAL DUTY TYPE)

KG-M

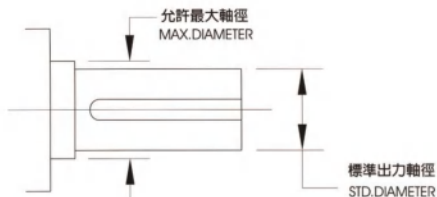
减速比 RATIO	输出转速 OUTPUT R.P.M		输出扭矩 OUTPUT TORQUE																			
			1/8HP 0.1KW		1/4HP 0.2KW		1/2HP 0.4KW		3/4HP 0.55KW		1HP 0.75KW		3/2HP 1.1KW		2HP 1.5KW		3HP 2.2KW		5HP 3.7KW			
	HZ																					
	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60		
3	500	600	0.19	0.16	0.37	0.31	0.70	0.60	0.96	0.83	1.30	1.10	1.91	1.61	2.60	2.20	3.80	3.20	6.00	5.50		
5	300	360	0.31	0.26	0.62	0.52	1.20	1.00	1.65	1.38	2.20	1.90	3.22	2.78	4.50	3.80	6.72	5.60	11.0	10.0		
10	150	180	0.62	0.52	1.24	1.04	2.40	2.00	3.30	2.75	4.50	3.80	6.60	5.7	9.10	7.60	13.7	11.2	22.0	20.0		
15	100	120	0.91	0.76	1.80	1.50	3.60	3.00	4.95	4.13	6.80	5.70	9.70	8.36	13.5	11.3	20.1	16.8	32.6	29.8		
20	75	90	1.20	1.00	2.40	2.00	4.80	4.00	6.60	5.50	9.00	7.50	13.20	11.0	18.1	15.1	26.8	22.4	43.6	36.0		
25	60	72	1.40	1.20	3.00	2.50	6.00	5.00	8.25	6.88	11.2	9.40	16.43	13.79	22.6	18.9	33.6	28.0	53.9	49.53		
30	50	60	1.80	1.50	3.60	3.00	7.20	6.00	9.90	8.25	13.5	11.3	19.80	16.57	27.1	22.6	40.3	33.6	64.7	58.8		
40	37	45	2.20	1.90	4.60	3.90	9.30	7.80	12.79	10.73	17.5	14.6	25.66	21.41	34.9	29.1	52.0	43.4	86.3	78.4		
45	33	40	2.70	2.20	5.40	4.40	10.9	9.10	14.99	12.51	20.6	17.0	30.21	24.93	41.1	34.0	59.8	49.6	98.5	81.7		
50	30	36	2.80	2.40	5.70	4.80	11.6	9.70	15.95	13.34	21.9	18.3	32.12	26.84	43.6	36.4	65.1	54.3	107	97.0		
60	25	30	3.40	2.90	6.90	5.80	13.9	11.6	19.11	15.95	26.2	21.9	38.43	30.21	52.4	43.7	78.1	65.1	127	115		
70	21	25	4.30	3.60	8.00	6.80	16.2	13.5	22.28	18.56	31.5	26.3	46.20	38.57	62.4	52.0	92.5	77.1				
80	19	23	4.80	4.00	9.20	7.70	18.4	15.4	25.30	21.18	35.5	29.6	52.07	43.41	70.8	59.0	105	87.5				
90	17	20	5.20	4.40	10.3	8.60	20.7	17.3	28.46	23.79	39.3	32.8	57.64	48.10	77.1	64.3	113	94.3				
100	15	18	5.80	4.90	11.5	9.60	23.0	19.2	31.63	26.40	43.2	36.0	63.36	52.8	83.7	69.8	126	105				
120	12	15	6.90	5.80	13.8	11.5	27.7	23.1	38.09	31.76	51.8	43.2	75.97	63.36	101	83.7						
140	11	13	8.00	6.70	16.0	13.4	32.0	26.7	44.0	36.71	59.7	49.8	87.56	73.04	116	96.8						
160	9	11	9.10	7.60	18.3	15.3	36.3	30.3	49.91	41.66	68.0	56.7	99.73	83.16	132	110						
180	8	10	10.3	8.60	20.7	17.3	40.8	34.0	56.10	46.78	76.8	64.0	112.6	93.87	148	123						
200	7	9	11.6	9.70	22.9	19.1	43.2	36.0	59.40	49.5	82.8	69.0										

4-3 出力轉應重荷重 OVERHUNG LOAD

KG

减速比 RATIO	输出转速 OUTPUT R.P.M		1/8HP	1/4HP	1/2HP	3/4HP	1HP	3/2HP	2HP	3HP	5HP									
			0.1KW	0.2KW	0.4KW	0.55KW	0.75KW	1.1KW	1.5KW	2.2KW	3.7KW									
	HZ																			
	50	60	50	60	50	60	50	60	50	60	50	60								
3	500	600	30	25	30	25	54	45	54	60	50	145	130	145	130	165	150	200	180	
5	300	360	36	30	36	30	78	70	78	70	85	75	165	150	165	150	210	180	270	225
10	150	180	70	60	70	60	150	130	150	130	180	150	280	250	280	250	430	360	570	550
15	100	120	110	90	110	100	175	160	175	160	165	160	355	348	355	348	490	450	780	750
20	75	90	150	125	135	125	190	170	190	170	175	170	369	365	369	365	540	500	850	830
25	60	72	155	140	150	140	210	180	210	180	185	180	450	430	450	430	650	630	1100	1050
30	50	60	160	150	170	165	235	220	235	220	415	400	480	450	480	450	690	650	1200	1100
40	38	45	160	160	180	180	270	260	270	260	430	420	580	550	580	550	710	670	1280	1200
45	33	40	170	170	180	180	335	328	335	328	440	430	590	570	590	570	820	780	1300	1250
50	30	36	170	170	180	180	350	335	350	335	450	440	600	580	600	580	850	820	1400	1350
60	25	30	180	180	180	180	350	350	350	350	450	450	630	610	630	610	900	900	1400	1400
70	21	25	180	180	180	180	350	350	350	350	460	460	670	650	670	650	1100	1100		
80	18	22	180	180	180	180	350	350	350	350	460	460	680	680	680	680	1100	1100		
90	16	20	180	180	180	180	350	350	350	350	500	500	850	850	850	850	1200	1200		
100	15	18	200	200	250	250	380	380	380	380	590	590	900	900	900	900	1200	1200		
120	12	15	200	200	320	320	390	390	390	390	640	640	920	920	920	920				
140	11	13	200	200	320	320	400	400	400	400	679	679	920	920	920	920				
150	10	12	220	220	330	330	420	420	420	420	679	679	950	950	950	950				
160	9	11	220	220	330	330	420	420	420	420	700	700	950	950	950	950				
180	8	10	240	240	350	350	430	430	430	430	720	720	980	980	980	980				
200	7	9	240	240	350	350	430	430	430	430	720	720								
1/250-1/1800			300	300	480	480	720	720	720	720	1400	1400								

4-4 出力轴允许最大轴径 AVAILABLE MAX OUTPUT SHAFT DIAMETER



本體框號 HOUSING CODE	標準出力軸徑 STD OUTPUT SHAFT	出力軸培林 OUTPUT SHAFT BEARING	允許最大軸徑 MAX AVAILABLE SHAFT DIAMETER
1#	φ 18.0	6004	φ 20.0
2#	φ 22.0	6205	φ 25.0
3#	φ 28.0	6206	φ 30.0
4#	φ 32.0	6207	φ 35.0
5#	φ 40.0	6209	φ 45.0
5#	φ 45.0	6209	φ 45.0
6#	φ 50.0	6211	φ 55.0

4-5 出力轴轴径对照表 OUTPUT SHAFT DIAMETER TABLE

標準型 (NORMAL DUTY TYPE)

速比 RATIO	馬力 CAPACITY									
	1/8HP (100W)	1/4HP (200W)	1/2HP (400W)	3/4HP (550W)	1HP (750W)	3/2HP (1100W)	2HP (1500W)	3HP (2200W)	5HP (3700W)	
3	18	18	22	22	28	28	32	40	40	
5	18	18	22	22	28	28	32	40	40	
10	18	18	22	22	28	28	32	40	40	
15	18	22	28	28	28	28	32	40	40	
20	18	22	28	28	28	28	32	40	50	
25	18	22	28	28	28	28	32	40	50	
30	18	22	28	28	32	32	32	40	50	
40	18	22	28	28	32	32	32	40	50	
45	18	22	28	28	32	32	40	50	50	
50	18	22	28	28	32	32	40	50	50	
60	22	22	28	28	32	32	40	50	50	
70	22	22	28	28	32	32	40	50		
80	22	22	28	28	32	32	40	50		
90	22	22	28	28	32	32	40	50		
100	22	28	32	32	32	32	40	50		
120	22	28	32	32	32	32	40	50		
140	22	28	32	32	40	40	50	50		
150	22	28	32	32	40	40	*50			
160	22	28	32	32	40	40	*50			
180	22	28	32	32	40	40	*50			
200	22	28	32	32	40	40				
250-1800	28	32								

輕負載縮框型 LIGHT DUTY TYPE

速比 RATIO	馬力 CAPACITY									
	1/8HP (100W)	1/4HP (200W)	1/2HP (400W)	3/4HP (550W)	1HP (750W)	3/2HP (1100W)	2HP (1500W)	3HP (2200W)	5HP (3700W)	
3					22	22	28			
5					22	22	28			
10					22	22	28			
15		18	22	22	22	22	28		40	
20			22	22	22	22	28	40	40	
25			22	22	22	22	28	40	40	
30		18	22	22	28	28	28	40	40	
40		18	22	22	28	28	32	40	40	
45		18	22	22	28	28	32	40	40	
50		18	22	22	28	28	32	40	40	
60	18	18	22	22	28	28	32	40	40	
70	18	18	22	22	28	28	32	40		
80	18	18	22	22	28	28	32	40		
90	18	18	22	22	28	28	32			
100	18	22	28	28	28	28	32			
120	18	22	28	28	28	28	32	40		
140	18	22	28	28	32	32	40			
150	18	22	28	28	32	32	40			
160	18	22	28	28	32	32	40			
180	*18	22	28	28	32	32	*40			
200	*18	22	*28	*28	*32	*32				
250-1800	22	28	32	32	40	40				

備註
REMARK

1. 縮框機殼為不正當設計使用，如非必要請勿選用
LIGHT DUTY TYPE ARE NOT AVAILABLE FOR STANDARD APPLICATION DESIGN, ONLY SUITABLE FOR SPECIAL PROJECT DESIGN.
2. 縮框機殼機件提供一年保固，PROVIDE ONE YEAR GUARANTEE FOR MOTOR ONLY.
3. *請達到此速比時必須採用 6P 馬達使用。*IT NEED TO USE 6 POLE MOTOR TO REACH CERTAIN RATIO.

4-6公稱及實際速比 (NORMAL RATIO&ACTUAL RATIO)

標準型 (NORMAL DUTY TYPE)

公稱速比 NORMAL RATIO	低段實際減速比 ACTUAL RATIO								
	0.1KW	0.2KW	0.4KW	0.55KW	0.75KW	1.1KW	1.5KW	2.2KW	3.7KW
3	3.04	3.04	2.99	2.99	2.92	2.92	3.05	3.25	3.25
5	5.07	5.07	5.14	5.14	5.03	5.03	5.01	5.19	5.19
10	10.03	10.03	10.01	10.01	9.96	9.96	10.41	9.48	9.48
15	15.09	15.60	15.61	15.61	15.31	15.31	14.33	15.71	14.62
20	19.90	19.90	20.69	20.69	19.49	19.49	19.35	19.38	19.58
25	26.81	25.65	26.35	26.35	25.27	25.27	25.08	23.71	24.54
30	30.06	32.77	29.81	29.81	30.00	30.00	29.38	29.25	30.87
40	40.33	40.46	39.11	39.11	40.99	40.99	43.72	41.83	41.77
50	50.59	49.42	50.21	50.21	51.24	51.24	50.96	50.51	50.51
60	58.64	63.02	61.36	61.36	58.10	58.10	61.83	58.48	58.48
70	71.62	71.31	71.15	71.15	72.00	72.00	72.87	67.65	
80	80.19	81.23	77.13	77.13	79.99	79.99	80.30	81.18	
90	91.34	92.69	94.27	94.27	90.00	90.00	90.54	93.99	
100	102.27	104.62	103.70	103.70	99.99	99.99	103.05	98.17	
110		109.02			108.00	108.00	***109.20		
115	115.71						117.00		
120	117.73	123.33	116.66	116.66	120.00	120.00	122.20		
130	131.81	133.25	129.62	129.62	133.79	133.79	***126.30		
140	134.81	141.32	140.00	140.00					
150	150.41	150.74			150.41	150.41	***151.56		
160	162.73	162.86	155.55	155.55	160.70	160.70	***158.30		
170	168.40	172.73					***175.50		
180	182.19	182.32	175.00	175.00	180.01	180.01	***183.30		
200	192.83	193.37	194.44	194.44	216.22	216.22			
備注 REMARK	***為達到此速比時，必需搭配6P馬達使用 ***IT NEED USE 6 POLE MOTOR TO REACH CERTAIN RATIO								

公稱速比 NORMAL RATIO	低段實際減速比 ACTUAL RATIO								
	0.1KW	0.2KW	0.4KW	0.55KW	0.75KW	1.1KW	1.5KW	2.2KW	3.7KW
250	258.02	267.07	250.05	250.05	244.62	244.62			
	306.03	304.74	282.89	282.89	299.84	299.84			
350	354.98	367.70	357.57	357.57	359.81	359.81			
400	389.75	377.61	401.21	401.21	381.87	381.87			
450	468.00	435.77	468.71	468.71	458.24	458.24			
500	528.35	496.40	510.97	510.97	518.42	518.42			
600	600.78	566.42	605.37	605.37	602.14	602.14			
700	700.07	704.66	701.91	701.91	703.57	703.57			
800	825.28	805.32	810.36	810.36	814.66	814.66			
900	922.95	894.80	893.94	893.94	921.64	921.64			
1000	1008.09	1036.04	1014.40	1014.40	985.00	985.00			
1100	1097.55	1118.51	1102.53	1102.53	1114.35	1114.35			
1200	1224.82	1172.26	1214.91	1214.91	1199.37	1199.37			
1300	1329.80	1291.19	1298.22	1298.22					
1400	1374.44	1393.98							
1500	1517.32	1540.55	1484.89	1484.89	1492.43	1492.43			
1600	1582.76	1613.99	1574.88	1574.88	1612.36	1612.36			
1650									
1700	1711.73	1685.55	1728.08	1728.08					
1800	1775.20	1838.52	1821.00	1821.00	1832.99	1832.99			

輕負載縮短型 LIGHT DUTY

公稱速比 NORMAL RATIO	低段實際減速比 ACTUAL RATIO								
	0.1kW	0.2kW	0.4KW	0.55KW	0.75KW	1.1KW	1.5KW	2.2KW	3.7KW
3					2.99	2.99	2.93		
5					5.14	5.14	5.03		
10					10.01	10.01	9.96		
15		15.09	15.06	15.06	15.06	15.06	15.03		15.71
20		19.90	20.14	20.14	20.14	20.14	19.49		19.37
25		26.81	26.18	26.18	26.18	26.18	25.27		23.72
30		30.06	29.31	29.31	28.93	28.93	28.93		29.25
40		40.33	44.20	44.20	43.07	43.07	41.64		41.82
50		50.59	56.38	56.38	52.64	52.64	52.05	51.97	51.96
60	60.49	60.49	56.37	56.37	57.06	57.06	57.33	59.15	59.13
70			72.67	72.67	69.75	69.75	71.66	70.23	
80			82.92	82.92	82.22	82.22	77.40	79.93	
90	89.62	89.62	92.81	92.81	88.83	88.83	86.00		
100		103.78	98.24	98.24	100.49	100.49	107.50		
120	122.49	116.20	120.07	120.07	115.15	115.15	121.67		
140	140.41	133.05	135.83	135.83	135.00	135.00	136.26		
160	161.33	162.73	155.64	155.64	150.00	150.00	163.70		
180	***183.74	183.17	174.24	174.24	***180.00	***180.00	***182.50		
200	***210.62	215.87			***202.50	***202.50	***204.39		
備注 REMARK	***為達到此速比時，必需搭配6P馬達使用 ***IT NEED USE 6 POLE MOTOR TO REACH CERTAIN RATIO								

公稱速比 NORMAL RATIO	低段實際減速比 ACTUAL RATIO								
	0.1kW	0.2kW	0.4KW	0.55KW	0.75KW	1.1KW	1.5KW	2.2KW	3.7KW
250	255.98	258.02	255.16	255.16	264.54	264.54			
300	300.50	291.90	300.12	300.12	299.28	299.28			
350	340.03	354.98	344.47	344.47	356.29	356.29			
400	396.18	389.75	389.76	389.76	401.72	401.72			
450		467.84	443.98	443.98	457.24	457.24			
500	510.63	528.35	493.38	493.38	519.30	519.30			
600	610.64	600.78	594.88	594.88	599.53	599.53			
700	687.84		717.74	717.74	705.75	705.75			
800	802.78	825.28	800.32	800.32	815.69	815.69			
900	908.34		884.57	884.57	922.80	922.80			
1000	1007.13	1052.10	1000.40	1000.40	1016.86	1016.86			
1200	1321.92	1224.82	1200.48	1200.48	1210.37	1210.37			
1500	1485.90	1523.73	1500.61	1500.61	1484.37	1484.37			
1800	1810.42	1771.61	1775.94	1775.94	1775.2	1775.2			

4-7 潤滑油 LUBRICANT

本公司于出廠前已添加潤滑油脂 (BT-860-0), 在正常條件下運轉20,000小時可不必更換潤滑油脂, 但在特殊環境下運轉時, 如: 高溫, 長時間運轉, 動擊負荷等, 則換油頻率為10,000-15,000小時。

ALL REDUCERS FILLED WITH LUBRICANT(BT-860-0)BEFORE DELIVERY,NORMALLY,IT NO NEED TO REPLACE LUBRICANT FOR FIRST 20,000 HRS RUNNING,BUT IF WORKING IN SPECIAL APPLICATION,SUCH AS:HIGH TEMPERATURE, 24 HRS RUNNING,HEAVY DUTY IMPACT...etc,THEN LUBRICANT NEED TO BE CHANGED IN EVERY 10,000-15,000 WORKING HOURS.

油量表/重量表 (LUBRICANT/WEIGHT TABLE)

馬力 CAPACITY	出力軸 OUTPUT SHAFT	本體殼裝 HOUSING CODE	機型TYPE								
			油量表 (公升) LUBRICANT(L)			重量表 (公斤) WEIGHT(KG)					
			AH AHM AHD	AV AVM AVD	AH	AHM	AHD	AV	AVM	AVD	
100W 1/8HP	Φ18	1#	0.19	0.18	5.60	5.22	2.90	5.80	5.12	2.80	
	Φ22	2#	0.38	0.39	7.30	6.40	4.00	7.30	6.52	4.10	
	Φ28	1#+3#	0.8	0.85	14.6	12.4	11.3	14.6	12.52	11.4	
200W 1/4HP	Φ18	1#	0.18	0.18	7.00	5.22	2.90	7.00	5.12	2.80	
	Φ22	2#	0.38	0.39	8.60	6.42	4.00	8.80	6.52	4.10	
	Φ28	3#	0.63	0.68	11.0	9.12	8.30	10.8	8.92	8.10	
400W 1/2HP	Φ32	2#+4#	1.30	1.40	27.6	24.0	23.0	28.0	24.4	22.8	
	Φ22	2#	0.38	0.39	11.1	6.42	4.80	11.2	6.52	4.90	
	Φ28	3#	0.63	0.68	14.2	9.12	8.30	14.0	8.92	8.10	
550W 3/4HP	Φ32	4#	0.95	1.05	27.0	22.2	21.5	26.9	23.2	22.5	
	Φ22	2#	0.38	0.39	11.1	6.42	4.80	11.2	6.52	4.90	
	Φ28	3#	0.63	0.68	14.2	9.12	8.30	14.0	8.92	8.10	
750W 1HP	Φ32	4#	0.95	1.05	27.0	22.2	21.5	26.9	23.2	22.5	
	Φ28	3#	0.63	0.68	15.5	12.1	8.30	15.0	11.9	8.10	
	Φ40	5#	1.26	1.38	42.3	37.3	32.0	41.9	36.3	31.0	
1100W 3/2HP	Φ28	3#	0.63	0.68	15.5	12.1	8.30	15.0	11.9	8.10	
	Φ32	4#	0.95	1.05	27.6	25.1	21.5	28.0	26.1	22.5	
	Φ40	5#	1.26	1.38	42.3	37.3	32.0	41.9	36.3	31.0	
1500W 2HP	Φ32	4#	0.95	1.05	33.6	25.0	22.0	34.6	26.0	23.0	
	Φ40	5#	T	1.470	1.590	49.6	37.3	33.0	49.0	36.3	32.0
			TT	1.260	1.470						
Φ50	6#	2.520	2.600	94.0	74.3	70.0	94.0	71.3	67.0		
2200W 3HP	Φ50	4#+6#	3.470	3.650	105.0	--	--	106.0	--	--	
			D	1.680	1.800	49.0	40.8	36.5	51.0	39.8	35.5
	T	1.490	1.590								
3700W 5HP	Φ50	6#	2.520	2.600	92.5	77.8	73.5	88.5	74.8	70.5	
	Φ40	5#	1.680	1.800	54.8	43.8	39.5	55.3	42.8	38.5	
	Φ50	6#	2.520	2.600	98.5	78.8	74.5	94.5	75.8	71.5	

備注: 1、此表僅供參考, 具體以實物為準

1、THIS TABLE IS FOR REFERENCE ONLY, IT IS SUBJECT TO THE REAL PRODUCT

4-8 速比/段數使用表 RATIO/GEAR STAGE TABLE

馬力 CAPACITY	速比 RATIO	雙段 (D) 2 ND STAGE	三段 (T) 3 RD STAGE	雙本體 1#+3# TWIN HOUSING	雙本體 2#+4# TWIN HOUSING	雙本體 3#+5# TWIN HOUSING	雙本體 3#+6# TWIN HOUSING
1/8HP (100W)	1/3-1/50	D					
	1/60-1/200		T				
	1/150、 180、200		T				
1/4HP (200W)	1/250-1/1800			DD			
	1/3-1/35	D					
	1/40-1/200		T				
1/2HP (400W)	1/60、180、200		T				
	1/250-1/1800				DD		
	1/3-1/35	D					
3/4HP (550W)	1/40-1/200						
	1/250-1/1800				DD		
	1/3-1/35	D					
1HP (750W)	1/40-1/120		T				
	1/125-1/200		(TT)				
	1/250-1/1800						DD
3/2HP (1100W)	1/3-1/30	D					
	1/40-1/120		T				
	1/125-1/200		(TT)				
2HP (1500W)	1/250-1/1800						DD
	1/3-1/22	D					
	1/25-1/50		T				
	1/55-1/100						
	1/105、 115、120		T				
3HP (2200W)	1/100-1/180		T				
	1/3-1/15	D					
	1/20-1/100		T				
5HP (3700W)	1/3-1/25	D					
	1/30-1/60		T				
**馬速比以下速比時, 必需搭配6P馬速使用 TO REACH CERTAIN RATIO THAT NEED TO USE 6 POLE MOTOR							
2HP	1/130、1/150、1/160、1/170、1/180						