



GREENSKY POWER®

杭州绿天新能源科技有限公司
Greensky Power Company Limited

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GREENSKY POWER®



AC GEAR MOTOR

交流减速电机

杭州绿天新能源科技有限公司
Greensky Power Company Limited

绿天新能源

GREENSKY POWER
PROFESSIONAL MOTOR AND CONTROLLER SUPPLIER

15年机电生产和销售经验

15 YEARS EXPERIENCE IN ELECTROMECHANIC PRODUCTION AND SALE

“一次即永久”的质量原则

“ONCE AND FOREVER” QUALITY PRINCIPAL

中德领先品牌




A SINO-GERMAN LEADING BRAND

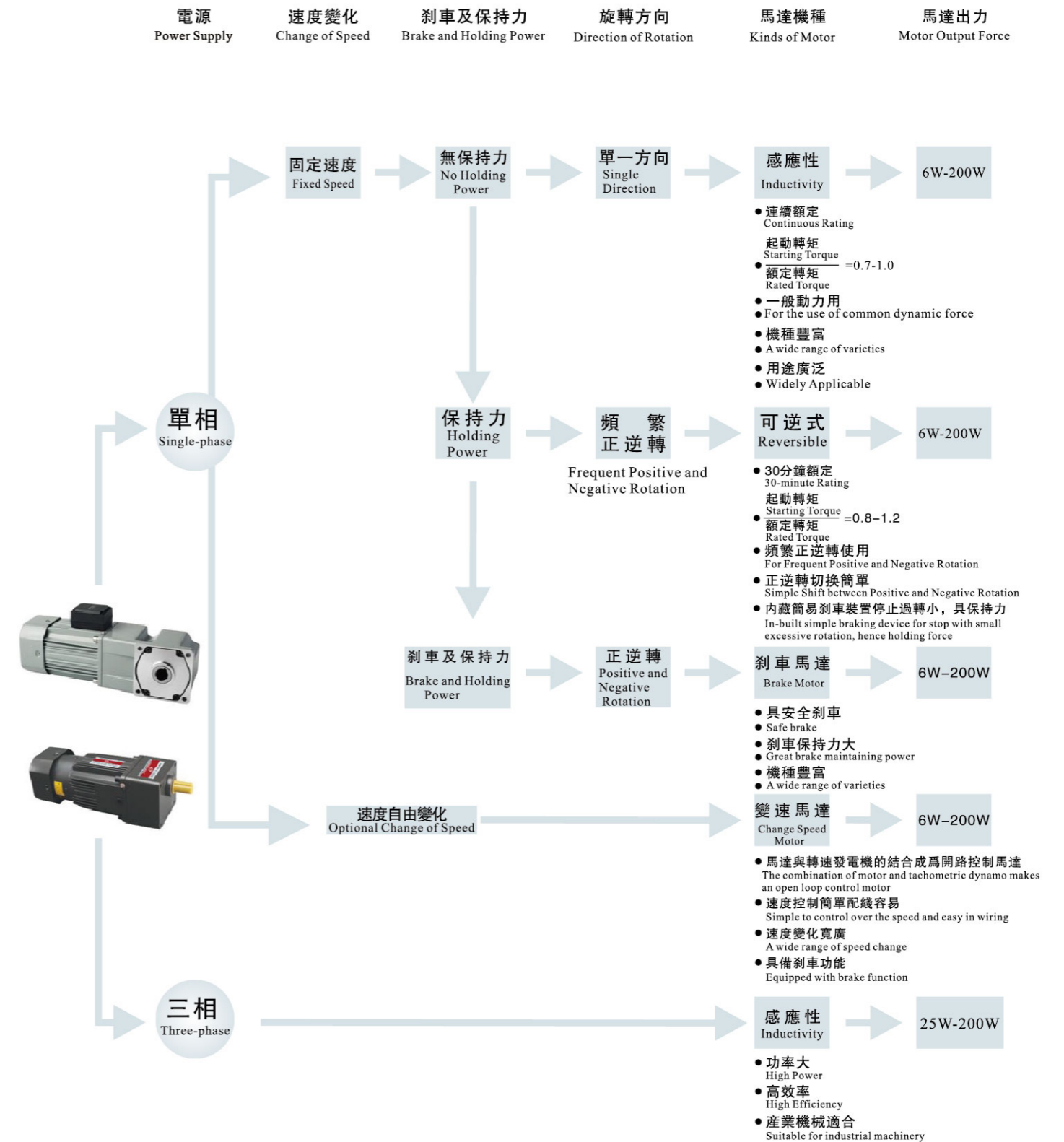
绿天新能源科技有限公司自2011年以来，专业设计和制造微型电机和控制器。我们的产品主要应用于电动自行车，电动皮划艇，割草机器人，直流无刷泵，颗粒锅炉，传动机械等。2022年，我们产能达到150万台减速电机和400万台控制器。开发复杂的控制系统和质量一致性管理是我们的主要优势。正如公司标语“一次即永久”所言，我们的核心价值是与客户建立长期合作伙伴关系。

Greensky Power Company Limited specializes in design and manufacturing micro electric motor and controller since 2011. The main applications of our products are E-bike, Electric kayak, lawn mower, BLDC pump, pellet boiler, transmission machines, etc. In 2022, our production capacity is 1.5 million gearmotors and 4 million controllers. Development of complexed controlling system and quality conformance management are our main strengths. As our slogan “once and forever” stated, our core value is to build long term partnership with our customers.



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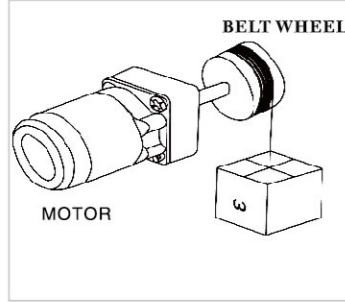


馬達容量的具體計算方法

Method for calculating motor capacity

- 1、求馬達所需的容量時，如下列標示。此處為一般的基本式。
 - 2、實際使用時應考慮到加速時，巨大的瞬間負荷所需的動力，或者設計上的安全，電壓的變化所造成的影響之後，再選擇馬達
- 1、The method for calculating the required capacity of the motor is shown as below. The general basic form is introduced here.
 - 2、The power for the enormous instantaneous load under acceleration during actual operation and the design safety and influence caused by the voltage change should be taken into consideration before selecting the motor

(1) 卷起荷重物時
(1) When rolling up the load

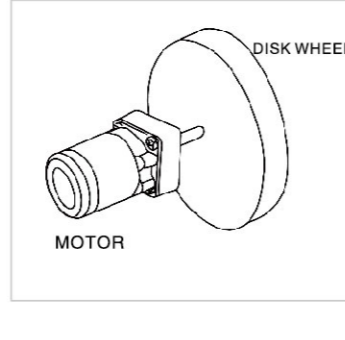


BELT WHEEL
MOTOR

$$Pg = \frac{\omega V}{6.12} \times \frac{100}{\eta} [W]$$

ω: 荷重[kgf]
ω: Load weight[kgf]
V: 速度[m/min]
V: Speed[m/min]
η: 效率[%]
η: Efficiency[%]

(2) 驅動慣性體時
(2) When driving the coasting body



DISK WHEEL
MOTOR

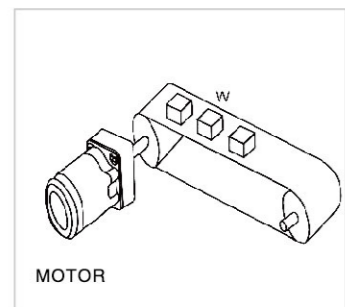
$$Pg = 1.027nT [W]$$

Gd²包括回轉體的圓輪效果
Gd² includes the round wheel effect of the rotational part

$$T = \frac{GD^2}{375} \times \frac{n}{T} (kg/m \times 10^3)$$

n: 回轉數[rpm]
n: revolutions per[rpm]
T: 轉矩[kg·m]
T: Torque[kg·m]
GD²: 飛輪效率[kg·m²]
GD²: Flywheel efficiency[kg·m²]
t: 時間[sec]
t: Time[sec]

(3) 皮帶輸送時
(3) When conveying with belt



MOTOR

$$Pg = (P1 + P2 + P3) \times \frac{100}{\eta} [W]$$

無負荷動力 P1 = 9.8 μ ω VL [W]
No load Dynamic power P1 = 9.8 μ ω VL [W]

$$P2 = \frac{\mu QL}{367} [W]$$

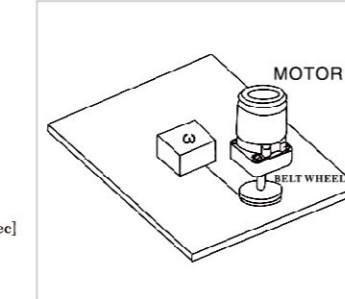
水平動力 P2 = μ QL / 367 [W]
Horizontal Dynamic power P2 = μ QL / 367 [W]

$$P2 = \pm \frac{QH}{367} [W]$$

垂直動力 P2 = ± QH / 367 [W]
Vertical dynamic power P2 = ± QH / 367 [W]

L: 運送帶的長度[m]
L: The length of conveying belt [m]
ω: 環狀帶比量[kgf/m]
ω: The specific flow of the loop-shaped belt [kgf/m]
μ: 摩擦係數
μ: Coefficient of Friction
V: 環狀帶的速度[m/sec]
V: The speed of the loop-shaped belt [m/sec]
Q: 運送量[kgf/h]
Q: The conveying volume [kgf/h]
η: 效率[%]
η: Efficiency[%]
H: 傾斜運送機的两端高低差[m]
H: height difference between the two ends of slop conveyer [m]

(4) 把接觸面水平移動時
(4) When moving the contact surface horizontally



MOTOR

$$Pg = \frac{\mu \omega V}{6.12} [W]$$

ω: 荷重[kgf]
ω: Load weight[kgf]
V: 速度[m/min]
V: Speed[m/min]
μ: 摩擦係數
μ: Coefficient of friction
Pg: 所需動力[W]
Pg: Required Dynamic power [W]

(5) 驅動導螺桿時
(5) Drive the leadscrew

1) 水平移動時
1) When moving horizontally

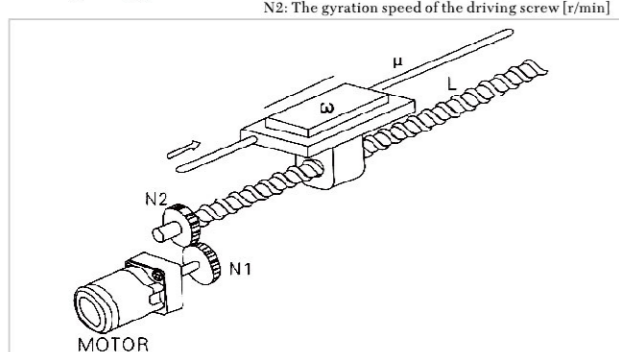
$$Pg = (P1 + P2) [W]$$

外部負荷
External load
 $Pg = 1.027N2K \frac{(F + \mu \omega)}{2\pi \eta} [W]$

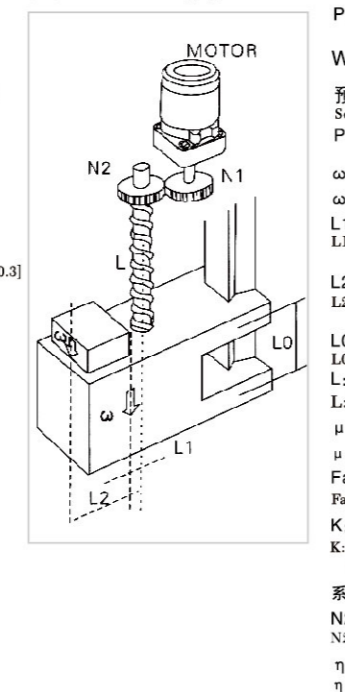
預壓負荷
Setting load
 $P2 = 1.027N2K \frac{Fao \cdot L}{2\pi} [W]$

F: 切削力[kgf]
F: Cutting force [kgf]

ω: 工作質量+工作臺質量[kgf/m]
ω: Work quality+Workbench Quality[kgf/m]
μ: 滾動裝置的摩擦係數[0.01]
μ: The frictional coefficient of the rolling device [0.01]
L: 導螺桿的LEAD[m]
L: The LEAD of driving screw [m]
η: 導螺桿效率[0.9]
η: The efficiency of driving screw [0.9]
Fao: 預壓荷重[kgf]
Fao: Setting load [kgf]
K: 預壓螺帽的內部摩擦係數[0.1-0.3]
K: The internal frictional coefficient of the driving cap [0.1-0.3]
N2: 導螺桿的回旋速度[r/min]
N2: The gyration speed of the driving screw [r/min]



(6) 上下移動時
(6) When moving up and down



MOTOR

$$Pa = (P1 + P2) [W]$$

在此，外部負荷
Here, external load
 $P1 = 1.027N2 \frac{(F + \mu \omega) L}{2\pi \eta} [W]$

$$W = \frac{(\omega_1 L_1 + \omega_2 L_2)}{L0} [kgf]$$

預壓負荷
Setting load
 $P2 = 1.027N2K \frac{Fao \cdot L}{2\pi} [W]$

ω1: 工作質量 Work quality
ω2: 工作臺質量 Workbench Quality
L1: 導螺桿中心與工作重心的距離[m]
L1: The distance between the center of the driving screw and the center of working gravity [m]
L2: 導螺桿中心與工作重心的距離[m]
L2: The distance between the center of the driving screw and the center of working gravity [m]
L0: 工作臺腳之間的距離[m]
L0: The distance between the working table feet [m]
L: 導螺桿的LEAD[m]
L: The LEAD of driving screw [m]
μ: 滾動裝置的摩擦係數[0.01]
μ: The frictional coefficient of the rolling device [0.01]
Fao: 預壓荷重
Fao: Setting load [kgf]
K: 預壓螺帽的內部摩擦
K: The internal frictional coefficient of the driving cap [0.1-0.3]

係數 coefficient [0.1-0.3]
N2: 導螺桿的回旋速度[r/min]
N2: The gyration speed of the driving screw [r/min]
η: 導螺桿效率[0.9]
η: The efficiency of driving screw [0.9]

交流馬達型號之選定
The selection for AC motor and gear

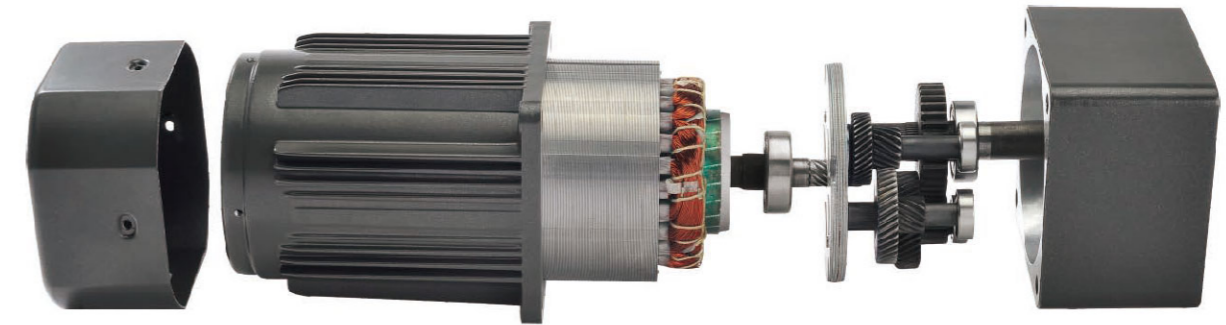
4	R	K	25	GN	A	□
外形尺寸 Overall Dimensions	機種 Kinds	馬達系列 Motor Series	出力 Output Force	馬達軸形狀 Motor Axis Shape	電壓極數 Voltage Poles	其它附件 Other Accessories
2:60mm 3:70mm 4:80mm 5:90mm 6:100mm 7:120mm	I:感應式 R:可逆式 T:轉矩馬達	I: Inductive R: Reversible T: Torque Motor K系列 K Series	6=10W 15=15W 20=20W 25=25W 30=30W 40=40W 60=60W 90=90W 120=120W 140=140W 160=160W 180=180W 200=200W 250=250W 370=370W 400=400W 750=750W	A圓柱軸型 A Cylinder Axis A1圓柱軸銑扁型 A2圓柱軸銑槽型 GN螺旋齒軸 (匹配GN齒箱) GN Spiral Tothing Axis (match with GN gear box) GU螺旋齒軸 (匹配GU齒箱) GU Spiral Tothing Axis (match with GU gear box)	A=1 φ 110V4P B=1 φ 110V2P C=1 φ 220V4P D=1 φ 220V2P S=3 φ 220V4P S1= 3 φ 220V2P U=3 φ 380V4P W=3 φ 440V4P Y=3 φ 220/380V4P Z=3 φ 220/440V4P H=3 φ 380V2P	F:風扇 F: Fan M:电磁刹车 M: Electromagnetic Brake Z:机械阻尼 Z: Mechanical damping T:接线盒 T: Terminal Box P:温度开关 P: Temperature Switch

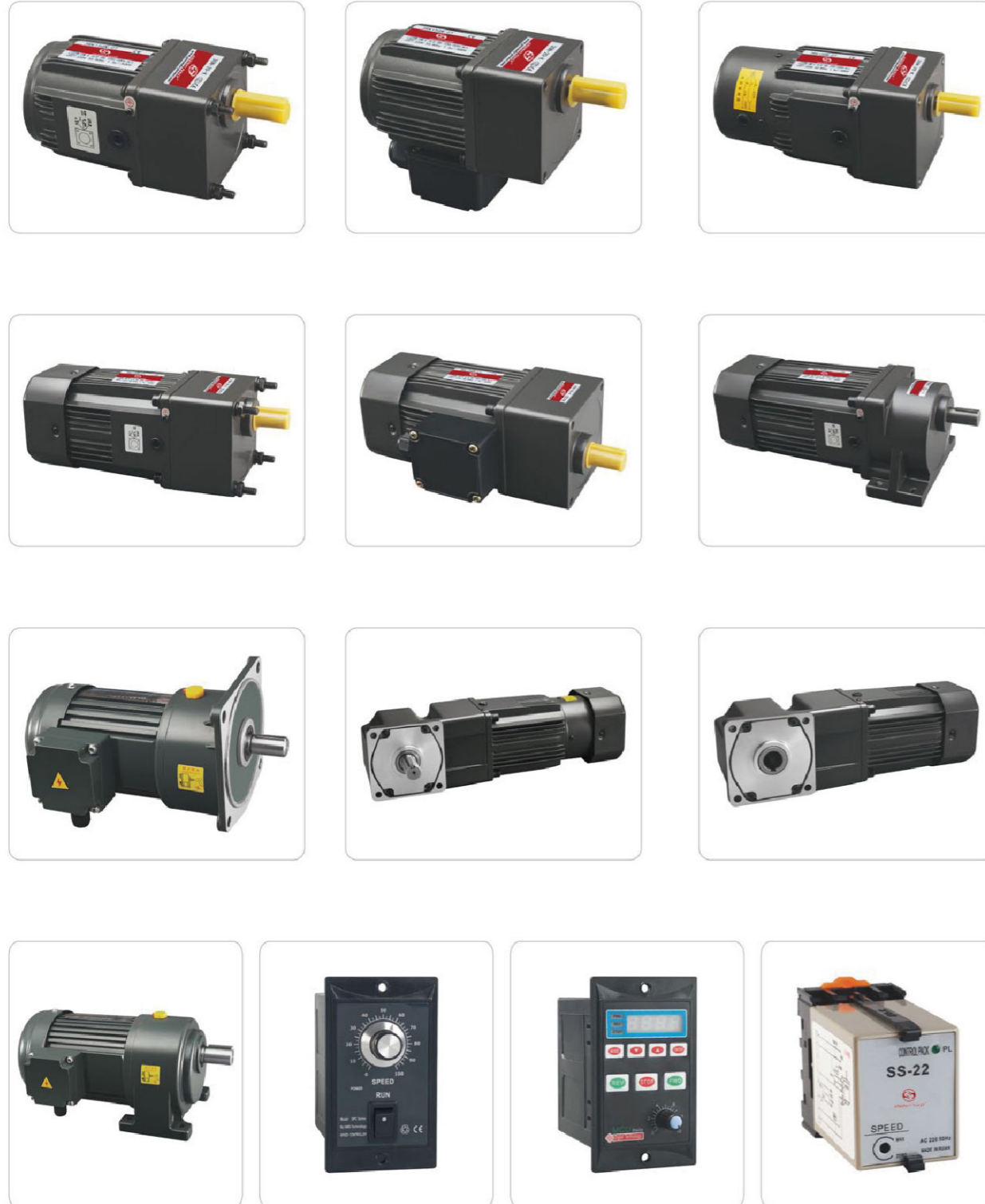
馬達軸形狀前加R為調速馬達
Plus "R" before the axis shape of the motor stands for the speed regulation motor

齒輪型號之選定
The selection for AC motor

4	GN	100	K
外形尺寸 Overall Dimensions	出力軸種類	減速比 Speed Reducing Ratio	齒輪軸承種類 Kinds of Gear Bearings
2:60mm 3:70mm 4:80mm 5:90mm 6:100mm 7:120mm	GN:出力軸 ≤ φ 12 GU:出力軸 ≥ φ 14 GS:出力軸 ≥ φ 15	1/100 10x表示中間齒輪 10x stands for the intermediate gear	K=滾珠培林軸承 K= Ball Bearing B=含油軸承 (合銅) B= Oil-retaining Bearing (copper contained) copper alloy

綠天產品模塊化組合體系
MODULAR COMBINED SYSTEM OF "Greensky" PRODUCT





AC GEAR MOTOR

6 / 10W / 60MM
交流減速電機



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	電容容量/耐壓 Capacity/Ve μF/VAC
2RK-6GN-A	可逆式 Reversible	6	單相 1-phase 110	50	0.26	60	47	1200	4μF/250V
2IK-6GN-A	感應 Induction			60	0.23	55	38	1450	
				50	0.24	55	47	1200	
				60	0.25	50	38	1450	
2RK-6GN-C	可逆式 Reversible	6	單相 1-phase 220	50	0.14	55	48	1200	1.0μF/450V
2IK-6GN-C	感應 Induction			50	0.13	50	48	1200	0.8μF/450V
2RK-10GN-C	可逆式 Reversible	10	單相 1-phase 220	50	0.2	80	79	1200	1.0μF/450V
2IK-10GN-C	感應 Induction			60	0.23	75	69	1450	
				50	0.16	80	79	1200	
				60	0.2	75	69	1450	
2RK-10GN-A	可逆式 Reversible	10	單相 1-phase 110	50	0.28	85	78	1200	4.5μF/250V
2IK-10GN-A	感應 Induction			60	0.31	80	71	1450	
				50	0.25	85	78	1200	
				60	0.29	80	71	1450	

- 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/mn Synchronous speed	500	417	300	250	200	150	120	100	83	75	60	50	41	37	30	25	20							
	減速比i ratio	3	3.6	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75							
最大允許負載 Max allowable load	6W	kg.cm N.m	1.3 0.13	1.6 0.16	2.32 0.22	2.67 0.26	3.3 0.32	4.5 0.43	5.5 0.53	6.2 0.6	7.3 0.72	8.1 0.8	9.7 0.96	11.2 1.1	13.8 1.38	15.2 1.5	17.1 1.7	21.2 2.1	25.3 2.5						
	10W	kg.cm N.m	2.1 0.2	2.51 0.25	3.42 0.34	4.1 0.4	5.3 0.51	6.7 0.67	8.7 0.86	10.1 1.0	11.6 1.15	12.9 1.28	16.2 1.6	19.2 1.92	23.1 2.3	26.2 2.6	28.2 2.8								

- 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，可在電動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，并有堵轉情況存在時，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.

AC GEAR MOTOR

15 / 20W / 70MM

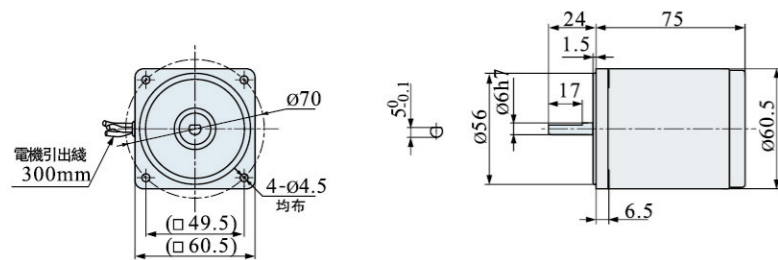
交流減速電機



圓軸型

Circular shaft type

2IK-6A-C 2RK-6A-C
2IK-6A-A 2RK-6A-C



結構：電動機
重量：0.85kg

Structure: Electric motor
Weight: 0.85kg

定速型

Optical axis type

齒輪品名

Name of Gear

2GN □K

2IK-6GN-C 2RK-6GN-C
2IK-6GN-A 2RK-6GN-A

調速型

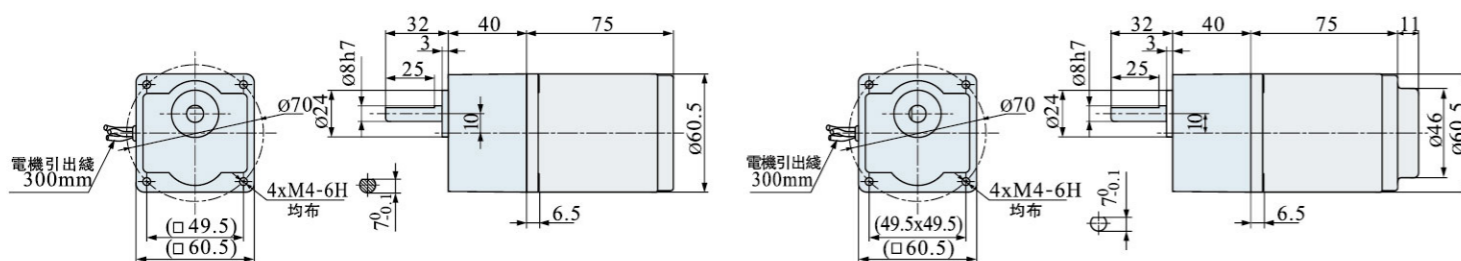
Speed regulation type

齒輪品名

Name of Gear

2GN □K

2IK-6RGN-C 2RK-6RGN-C
2IK-6RGN-A 2RK-6RGN-A



結構：減速器+電動機
重量：1.17kg
減速比：1:3-1:200

Structure: Reducer+Electric motor
Weight: 1.17kg
Speed Reducing Ratio: 1:3-1:200

結構：減速器+電動機+調速器
重量：1.2kg
減速比：1:3-1:200

Structure: Reducer+Electric motor+Speed governor
Weight: 1.2kg
Speed Reducing Ratio: 1:3-1:200

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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
3IK15GN-C 3IK15A-C	感應 Induction	15	單相 1-phase 220	50	0.15	143	1430	115	1150	1250	1.2/450
3RK15GN-C 3RK15A-C	可逆 Reversible			60	0.14	120	1200	95.5	955	1500	1.2/450
3IK15GN-A 3IK15A-A	感應 Induction	15	單相 1-phase 110	50	0.16	187	1870	150	1500	1250	1.5/450
3RK15GN-A 3RK15A-A	可逆 Reversible			60	0.18	158	1580	127	1270	1500	1.5/450
3IK15GN-U 3IK15A-U	—	15	三相 3-phase 380	50	0.33	143	1430	115	1150	1250	5/250
3RK15GN-S 3RK15A-S	—			60	0.30	120	1200	95.5	955	1500	5/250
3IK20GN-C 3IK20A-C	感應 Induction	20	單相 1-phase 220	50	0.36	187	1870	150	1500	1250	6/250
3RK20GN-C 3RK20A-C	可逆 Reversible			60	0.38	158	1580	127	1270	1500	6/250
3IK20GN-A 3IK20N-A	感應 Induction	20	三相 3-phase 220	50	0.06	143	1430	115	1150	1250	—
3RK20GN-A 3RK20A-A	可逆 Reversible			60	0.055	120	1200	95.5	955	1500	—
3IK20GN-A 3IK20N-A	感應 Induction	20	單相 1-phase 110	50	0.1	143	1430	115	1150	1250	—
3RK20GN-A 3RK20A-A	可逆 Reversible			60	0.1	120	1200	95.5	955	1500	—
3IK20GN-C 3IK20A-C	感應 Induction	20	單相 1-phase 220	50	0.22	187	1870	150	1500	1250	2/450
3RK20GN-C 3RK20A-C	可逆 Reversible			60	0.22	158	1580	127	1270	1500	2/450
3IK20GN-A 3IK20N-A	感應 Induction	20	單相 1-phase 110	50	0.26	187	1870	150	1500	1300	2.5/450
3RK20GN-A 3RK20A-A	可逆 Reversible			60	0.28	158	1580	127	1270	1550	2.5/450
3IK20GN-A 3IK20N-A	感應 Induction	20	單相 1-phase 110	50	0.45	187	1870	150	1500	1250	8/250
3RK20GN-A 3RK20A-A	可逆 Reversible			60	0.46	158	1580	127	1270	1500	8/250
3IK20GN-A 3IK20N-A	感應 Induction	20	單相 1-phase 110	50	0.54	187	1870	150	1500	1300	10/250
3RK20GN-A 3RK20A-A	可逆 Reversible			60	0.58	158	1580	127	1270	1550	9/250

- 上表參數是指電機單體，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

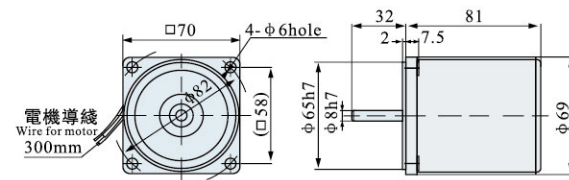
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	減速比i ratio																										
		500	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	7.5	6	5					
最大允許負載 Max allowable load	15W	kg.cm	2.86	4.81	5.67	7.51	9.46	11.8	14.7	17	21.5	23.5	30.6	34.1	39.27	47.1	50						4.9					
		N.m	0.28	0.48	0.56	0.75	0.93	1.18	1.47	1.67	2.15	2.35	3.01	3.34	3.92	4.7	50						4.9					
	20W	kg.cm	3.52	5.80	7.56	8.74	12.6	14.5	17.15	22.6	26.1	30.4	40.8	45.5	50						4.9							
		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	50						4.9							

- 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，可在電動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，并有堵轉情況存在時，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 ratiio 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

3IK15A-A 3RK15A-A
3IK15A-C 3RK15A-C
3IK15A-Y 3RK15A-Y



結構：電動機 Structure: Electric motor
重量：1.1kg Weight: 1.1kg

定速型

Optical axis type

齒輪品名

Name of Gear

3GN□K

3IK15GN-A 3RK15GN-A
3IK15GN-C 3RK15GN-C
3IK15GN-CZ 3RK15GN-CZ
3IK15GN-Y 3RK15GN-Y

調速型

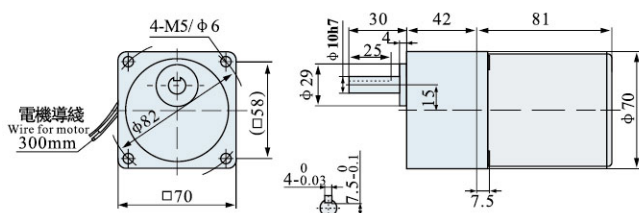
Speed regulation type

齒輪品名

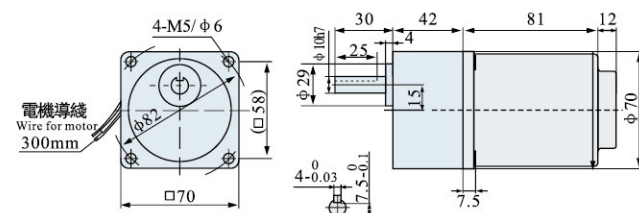
Name of Gear

3GN□K

3RK15RGN-A 3IK15RGN-A
3IK15RGN-C 3IK15RGN-C



結構：減速器+電動機 Structure: Reducer+Electric motor
重量：1.6kg Weight: 1.6kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250



結構：減速器+電動機+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量：1.7kg Weight: 1.7kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250

剎車定速型

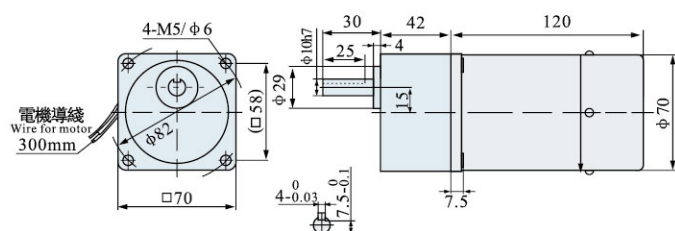
Brake Optical axis type

齒輪品名

Name of Gear

3GN□K

3IK15GN-AM 3RK15GN-AM
3IK15GN-CM 3RK15GN-CM
3IK15GN-YM 3RK15GN-YM



結構：減速器+電動機+剎車器 Structure: Reducer+Electric motor+Brake
重量：1.9kg Weight: 1.9kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250

剎車調速型

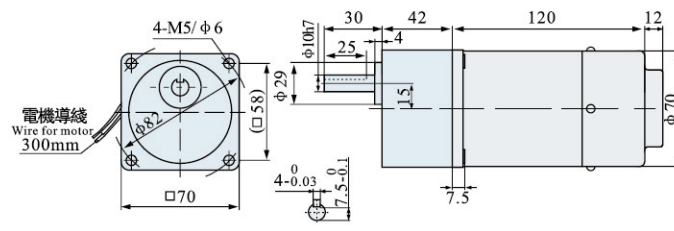
Brake Speed regulation type

齒輪品名

Name of Gear

3GN□K

3IK15RGN-CM 3RK15RGN-CM
3IK15RGN-AM 3RK15RGN-AM



結構：減速器+電動機+剎車器+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量：2.0kg Weight: 2.0kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250

AC GEAR MOTOR

25 / 30W / 80MM

交流減速电机



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
4IK25GN-C 4IK25A-C	感應 Induction	25	單相 1-phase 220	50	0.22	231	2310	185	1850	1250	1.5/450
4RK25GN-C 4RK25A-C				可逆 Reversible	60	0.21	192	1920	154	1540	1550
4IK25GN-A 4IK25A-A	感應 Induction	25	單相 1-phase 110	50	0.24	231	2310	185	1850	1250	2/450
4RK25GN-A 4RK25A-A				可逆 Reversible	60	0.26	192	1920	154	1540	1550
4IK25GN-U 4IK25A-U	—	25	三相 3-phase 380	50	0.48	231	2310	185	1850	1250	6/250
4RK25GN-S 4RK25A-S				可逆 Reversible	60	0.46	192	1920	154	1540	1550
4IK25GN-U 4IK25A-U	—	25	三相 3-phase 220	50	0.50	231	2310	185	1850	1250	8/250
4RK25GN-S 4RK25A-S				可逆 Reversible	60	0.56	192	1920	154	1540	1550
4IK30GN-C 4IK30A-C	感應 Induction	30	單相 1-phase 220	50	0.14	231	2310	185	1850	1250	—
4RK30GN-C 4RK30A-C				可逆 Reversible	60	0.12	192	1920	154	1540	1550
4IK30GN-A 4IK30A-A	感應 Induction	30	單相 1-phase 110	50	0.24	231	2310	185	1850	1250	—
4RK30GN-A 4RK30A-A				可逆 Reversible	60	0.225	192	1920	154	1540	1550
4IK30GN-C 4IK30A-C	感應 Induction	30	單相 1-phase 220	50	0.28	275	2750	220	2200	1250	2.2/450
4RK30GN-C 4RK30A-C				可逆 Reversible	60	0.3	231	2310	185	1850	1550
4IK30GN-A 4IK30A-A	感應 Induction	30	單相 1-phase 110	50	0.3	275	2750	220	2200	1250	2.5/450
4RK30GN-A 4RK30A-A				可逆 Reversible	60	0.32	231	2310	185	1850	1550
4IK30GN-A 4IK30A-A	感應 Induction	30	單相 1-phase 110	50	0.58	275	2750	220	2200	1250	8/250
4RK30GN-A 4RK30A-A				可逆 Reversible	60	0.60	231	2310	185	1850	1550
4IK30GN-A 4IK30A-A	感應 Induction	30	單相 1-phase 110	50	0.60	275	2750	220	2200	1250	10/250
4RK30GN-A 4RK30A-A				可逆 Reversible	60	0.65	231	2310	185	1850	1550

● 上表參數是指電機單體，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

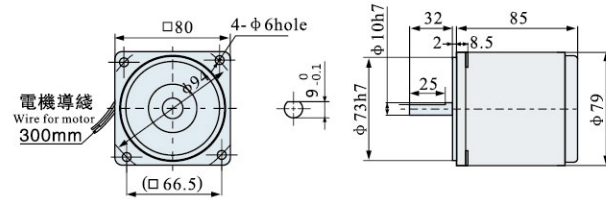
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	500	300	250	200	150	120	100	83	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5					
		減速比i ratio																											
最大允許負載 Max allowable load	25W	kg.cm	4.5	7.9	9.46	12	15.7	19	23	28.4	31.5	35	42	51.1	56.7	62	76.6	80											
	N.m	0.45	0.79	0.93	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	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	7.84														

- 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，可在電動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，并有堵轉情況存在時，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

4IK25A-A 4RK25A-A
4IK25A-C 4RK25A-C
4IK25A-Y 4RK25A-Y



結構：電動機 Structure: Electric motor
重量：1.5kg Weight: 1.5kg

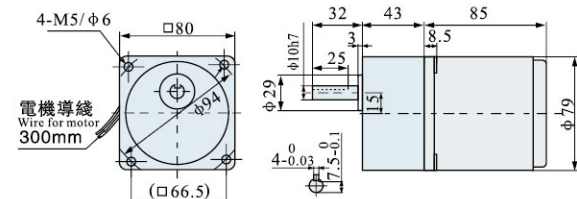
定速型

Optical axis type

齒輪品名

Name of Gear 4GN□K

4IK25GN-A 4RK25GN-A
4IK25GN-C 4RK25GN-C
4IK25GN-CZ 4RK25GN-CZ
4IK25GN-Y 4RK25GN-Y



結構：減速器+電動機 Structure: Reducer+Electric motor
重量：2.1kg Weight: 2.1kg
減速比：1:3-1:300 Speed Reducing Ratio : 1:3-1:300

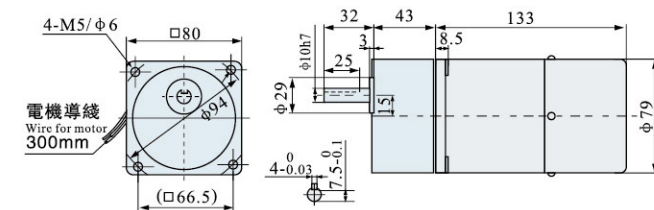
剎車定速型

Brake Optical axis type

齒輪品名

Name of Gear 4GN□K

4IK25GN-AM 4RK25GN-AM
4IK25GN-CM 4RK25GN-CM
4IK25GN-YM 4RK25GN-YM



結構：減速器+電動機+剎車器 Structure: Reducer+Electric motor+Brake
重量：2.4kg Weight: 2.4kg
減速比：1:3-1:300 Speed Reducing Ratio : 1:3-1:300

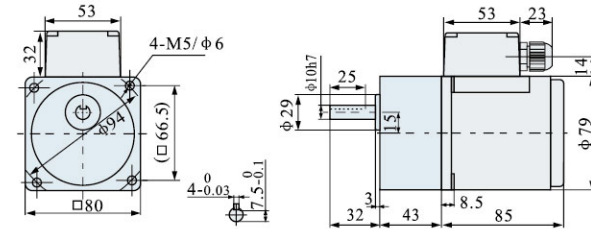
帶端子箱型

With terminal box type

齒輪品名

Name of Gear 4GN□K

4IK25GN-AT 4RK25GN-AT
4IK25GN-CT 4RK25GN-CT
4IK25GN-UT 4RK25GN-UT
4IK25GN-ST 4RK25GN-ST



結構：減速器+電動機+端子箱 Structure: Reducer+Electric motor+Terminal box
重量：2.2kg Weight: 2.2kg
減速比：1:3-1:300 Speed Reducing Ratio : 1:3-1:300

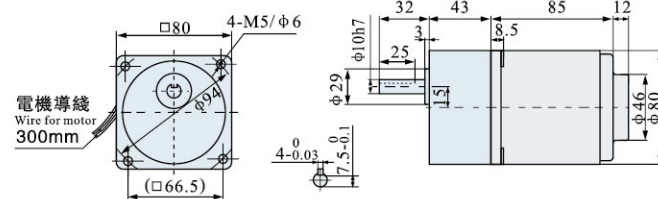
調速型

Speed regulation type

齒輪品名

Name of Gear 4GN□K

4IK25RGN-A 4RK25RGN-A
4IK25RGN-C 4RK25RGN-C



結構：減速器+電動機+調速器 Structure: Reducer+Electric motor+Speed governor
重量：2.2kg Weight: 2.2kg
減速比：1:3-1:300 Speed Reducing Ratio : 1:3-1:300

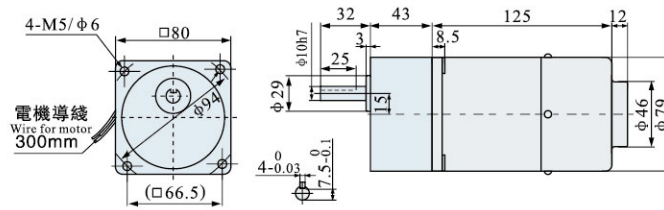
剎車調速型

Brake Speed regulation type

齒輪品名

Name of Gear 4GN□K

4IK25RGN-AM 4RK25RGN-AM
4IK25RGN-CM 4RK25RGN-CM



結構：減速器+電動機+剎車器+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量：2.5kg Weight: 2.5kg
減速比：1:3-1:300 Speed Reducing Ratio : 1:3-1:300

AC GEAR MOTOR

40W / 90MM

交流減速電機



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	電容容量/耐壓 Capacity/Ve μF/VAC		
						mN.m	gf.cm	mN.m	gf.cm				
5IK40GN-C 5IK40A-C	感應 Induction	40	單相 1-phase 220	50	0.35	367	3670	294	2940	1300	2.5/450		
5RK40GN-C 5RK40A-C	可逆 Reversible			60	0.33	307	3070	246	2460	1550	2.5/450		
5IK40GN-A 5IK40A-A	感應 Induction			50	0.38	367	3670	294	2940	1300	3.0/450		
				60	0.4	307	3070	246	2460	1550	3.0/450		
5IK40GN-U 5IK40A-U	可逆 Reversible	40	單相 1-phase 110	50	0.70	367	3670	294	2940	1300	10/250		
				60	0.72	307	3070	246	2460	1550	10/250		
5RK40GN-A 5RK40A-A	可逆 Reversible			50	0.76	367	3670	294	2940	1300	12/250		
				60	0.80	307	3070	246	2460	1550	12/250		
5IK40GN-S 5RK40A-S	—	40	三相 3-phase 380	50	0.24	367	3670	294	2940	1300	—		
				60	0.22	307	3070	246	2460	1550	—		
5RK40GN-S 5RK40A-S	—			40	三相 3-phase 220	50	0.42	367	3670	294	2940	1300	—
						60	0.38	307	3070	246	2460	1550	—

- 上表參數是指電機單體，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

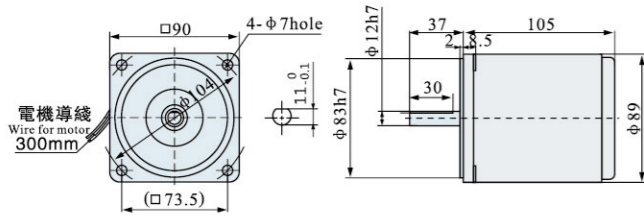
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	500	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5	3								
		減速比i ratio																														
最大允許負載 Max allowable load	40W	kg.cm	7.3	12	14.5	18	24.2	30	36	43.6	55	65.5	78	87	98	100																
		N.m	0.72	1.18	1.43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

- 5IK40A-A 5RK40A-A
- 5IK40A-C 5RK40A-C
- 5IK40A-Y 5RK40A-Y



結構: 電動機 Structure: Electric motor
重量: 2.3kg Weight: 2.3kg

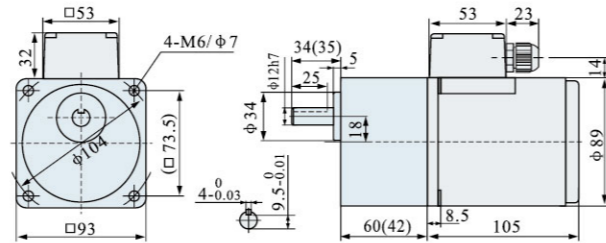
帶端子箱型

With terminal box type

齒輪品名

Name of Gear 5GN(GU) □K

- 5IK40GM-AT 5RK40GM-AT
- 5IK40GM-CT 5RK40GM-CT
- 5IK40GM-U(Y)T 5RK40GM-U(Y)T
- 5IK40GM-ST 5RK40GM-ST



結構: 減速器+電動機+端子箱 Structure: Reducer+Electric motor+Terminal box
重量: 3.5kg Weight: 3.5kg
減速比: 1:3-1:500 Speed Reducing Ratio : 1:3-1:500

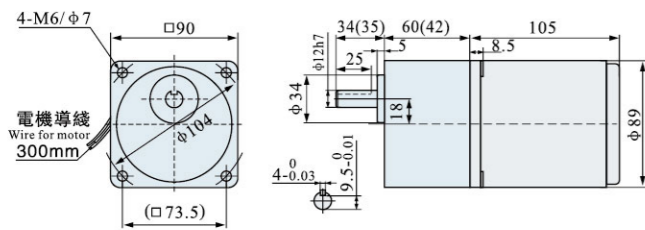
定速型

Optical axis type

齒輪品名

Name of Gear 5GN(GU) □K

- 5IK40GN-A 5RK40GN-A
- 5IK40GN-C 5RK40GN-C
- 5IK40GN-CZ 5RK40GN-CZ
- 5IK40GN-Y 5RK40GN-Y



結構: 減速器+電動機 Structure: Reducer+Electric motor
重量: 3.4kg Weight: 3.4kg
減速比: 1:3-1:500 Speed Reducing Ratio : 1:3-1:500

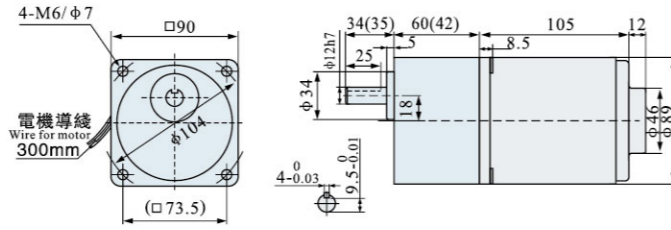
調速型

Speed regulation type

齒輪品名

Name of Gear 5GN(GU) □K

- 5IK40RGN-A 5RK40RGN-A
- 5IK40RGN-C 5RK40RGN-C



結構: 減速器+電動機+調速器 Structure: Reducer+Electric motor+Speed governor
重量: 3.5kg Weight: 3.5kg
減速比: 1:3-1:500 Speed Reducing Ratio : 1:3-1:500

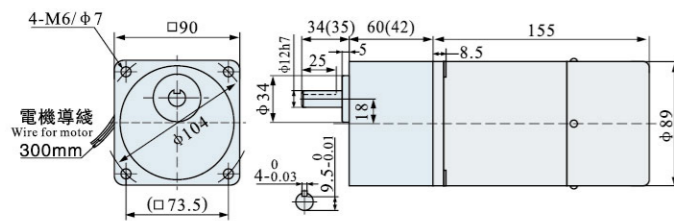
剎車定速型

Brake Optical axis type

齒輪品名

Name of Gear 5GN(GU) □K

- 5IK40GN-AM 5RK40GN-AM
- 5IK40GN-CM 5RK40GN-CM
- 5IK40GN-YM 5RK40GN-YM



結構: 減速器+電動機+剎車器 Structure: Reducer+Electric motor+Brake
重量: 3.7kg Weight: 3.7kg
減速比: 1:3-1:500 Speed Reducing Ratio : 1:3-1:500

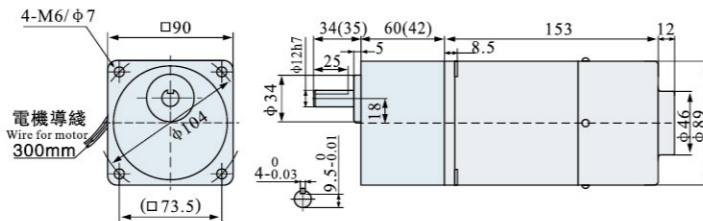
剎車調速型

Brake Speed regulation type

齒輪品名

Name of Gear 5GN(GU) □K

- 5IK40RGN-AM 5RK40RGN-AM
- 5IK40RGN-CM 5RK40RGN-CM



結構: 減速器+電動機+剎車器+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量: 3.8kg Weight: 3.8kg
減速比: 1:3-1:500 Speed Reducing Ratio : 1:3-1:500

AC GEAR MOTOR

60W / 90MM

交流減速電機



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	電容量/耐壓 Capacity/Ve
						mN.m	gf.cm	mN.m	gf.cm		
5IK60GU-CF 5IK60A-CF	感應 Induction	60	單相 1-phase 220	50	0.45	551	5510	441	4410	1350	3.5/450
60				0.48	462	4620	370	3700	1550	3.5/450	
50				0.5	837	8370	670	6700	1350	4/450	
5RK60GU-CF 5RK60A-CF	可逆 Reversible	60	單相 1-phase 110	50	0.52	692	6920	554	5540	1550	4/450
60				0.90	551	5510	441	4410	1350	14/250	
50				0.88	462	4620	370	3700	1550	14/250	
5RIK60GU-AF 5RIK60A-AF	可逆 Reversible	60	單相 1-phase 110	50	1.0	837	8370	670	6700	1350	16/250
60				1.2	692	6920	554	5540	1550	16/250	
50				0.30	551	5510	441	4410	1350	—	
5IK60GU-UF 5IK60A-UF	—	60	三相 3-phase 380	50	0.28	462	4620	370	3700	1550	—
60				0.52	551	5510	441	4410	1350	—	
50				0.48	462	4620	370	3700	1550	—	
5RK60GU-SF 5RK60A-SF	—	60	三相 3-phase 220	50	0.48	462	4620	370	3700	1550	—
60				0.48	462	4620	370	3700	1550	—	
50				0.48	462	4620	370	3700	1550	—	

- 上表參數是指電機單體, 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

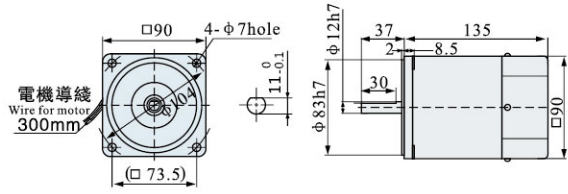
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	減速比 ratio																								
		500	375	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5	3	
最大允許負載 Max allowable load	60W	kg.cm	11	14.6	18	21.8	27	36	41	50	65	81	98	117	130	147	200									
		N.m	1.08	1.42	1.77	2.14	2.64	3.57	4.02	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, 可在電動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, 并有堵轉情況存在時, 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

5IK60A-AF 5RK60A-AF
5IK60A-CF 5RK60A-CF
5IK60A-YF 5RK60A-YF

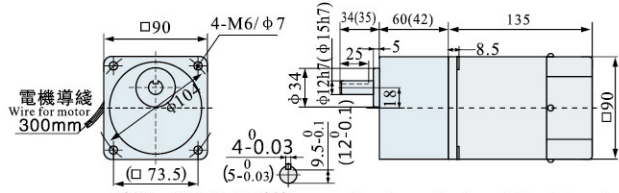


結構: 電動機 Structure: Electric motor
重量: 2.6kg Weight: 2.6kg

定速型

Optical axis type

5IK60GU-AF 5RK60GU-AF
5IK60GU-CF 5RK60GU-CF
5IK60GU-YF 5RK60GU-YF

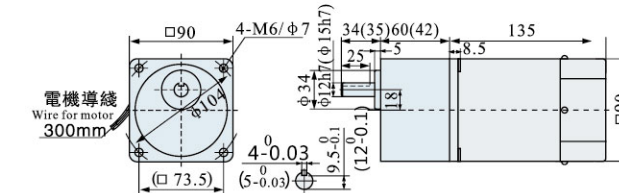


結構: 減速器+電動機 Structure: Reducer+Electric motor
重量: 3.8kg Weight: 3.8kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

調速型

Speed regulation type

5IK60RGU-AF 5RK60RGU-AF
5IK60RGU-CF 5RK60RGU-CF

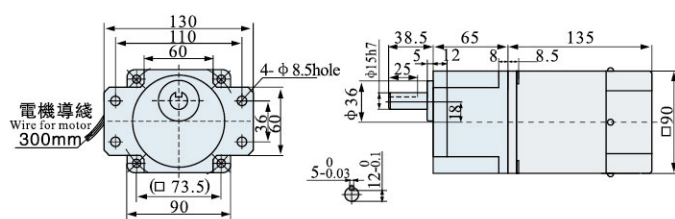


結構: 減速器+電動機+調速器 Structure: Reducer+Electric motor+Speed governor
重量: 3.9kg Weight: 3.9kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

90GS定速型

Optical axis type

5IK60GU-AF 5RK60GU-AF
5IK60GU-CF 5RK60GU-CF
5IK60GU-YF 5RK60GU-YF
5IK60GU-SF 5RK60GU-SF

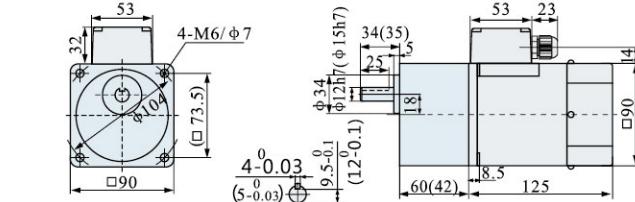


結構: 減速器+電動機+調速器 Structure: Reducer+Electric motor+Speed governor
重量: 3.9kg Weight: 3.9kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

帶端子箱型

With terminal box type

5IK60GU-AFT 5RK60GU-AFT
5IK60GU-CFT 5RK60GU-CFT
5IK60GU-U(Y)FT 5RK60GU-U(Y)FT
5IK60GU-SFT 5RK60GU-SFT

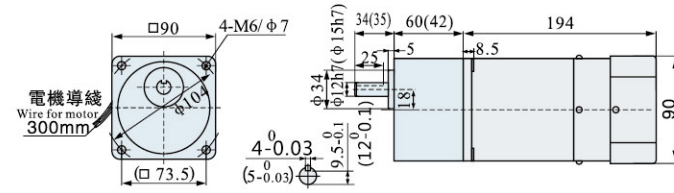


結構: 減速器+電動機+端子箱 Structure: Reducer+Electric motor+Terminal box
重量: 3.9kg Weight: 3.9kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

剎車定速型

Brake Optical axis type

5IK60GU-AFM 5RK60GU-AFM
5IK60GU-CFM 5RK60GU-CF
5IK60GU-YFM 5RK60GU-YFM

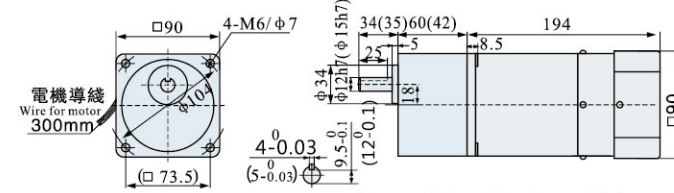


結構: 減速器+電動機+剎車器 Structure: Reducer+Electric motor+Brake
重量: 4kg Weight: 4kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

剎車調速型

Brake Speed regulation type

5IK60RGU-AFM 5RK60RGU-AFM
5IK60RGU-CFM 5RK60RGU-CF

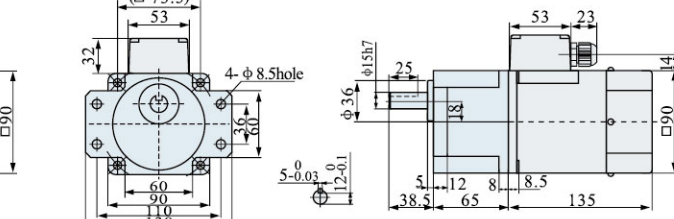


結構: 減速器+電動機+剎車器+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量: 4.1kg Weight: 4.1kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

90GS帶端子箱型

With terminal box type

5IK60GU-AFT 5RK60GU-AFT
5IK60GU-CFT 5RK60GU-CF
5IK60GU-U(Y)FT 5RK60GU-U(Y)FT
5IK60GU-SFT 5RK60GU-SFT



結構: 減速器+電動機+端子箱 Structure: Reducer+Electric motor+Terminal box
重量: 4kg Weight: 4kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

AC GEAR MOTOR

90 / 120W / 90MM

交流減速电机



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	電容量/耐壓 Capacity/Ve µF/VAC	
						mN.m	gf.cm	mN.m	gf.cm			
5IK90GU-CF 5IK90A-CF 5RK90GU-CF 5RK90A-CF	感應 Induction	90	單相 1-phase 220	50	0.62	837	8370	670	6700	1350	5/450	
				60	0.60	692	6920	554	5540	1550	5/450	
	可逆 Reversible			50	0.68	837	8370	670	6700	1350	6/450	
				60	0.72	692	6920	554	5540	1550	6/450	
				感應 Induction	50	1.25	837	8370	670	6700	1350	20/250
					60	1.2	692	6920	554	5540	1550	18/250
可逆 Reversible	50	1.38	837	8370	670	6700	1350	24/250				
	60	1.5	692	6920	554	5540	1550	24/250				
5IK90GU-AF 5IK90A-AF 5RK90GU-AF 5RK90A-AF	感應 Induction	90	單相 1-phase 110	50	0.32	837	8370	670	6700	1350	—	
				60	0.3	692	6920	554	5540	1500	—	
	可逆 Reversible			50	0.55	837	8370	670	6700	1350	—	
				60	0.48	692	6920	554	5540	1500	—	
				感應 Induction	50	0.85	1137	11370	910	9100	1350	6/450
					60	0.82	955	9550	764	7640	1500	6/450
可逆 Reversible	50	0.95	1137	11370	910	9100	1350	8/450				
	60	1.0	955	9550	764	7640	1500	8/450				
5IK120GU-CF 5IK120A-CF 5RK120GU-CF 5RK120A-CF	感應 Induction	120	單相 1-phase 220	50	1.7	1137	11370	910	9100	1350	24/250	
				60	1.65	955	9550	764	7640	1500	24/250	
	可逆 Reversible			50	1.9	1137	11370	910	9100	1350	30/250	
				60	2.1	955	9550	764	7640	1500	30/250	
				感應 Induction	50	0.34	1137	11370	910	9100	1350	—
					60	0.31	955	9550	764	7640	1500	—
可逆 Reversible	50	0.59	1137	11370	910	9100	1350	—				
	60	0.54	955	9550	764	7640	1500	—				

● 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

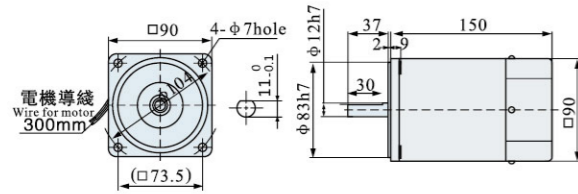
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	500	300	250	200	150	120	100	75	60	50	45	37.5	30	25	20	15	12.5	10	8	7.5	6	5	3	
		減速比i ratio																							
最大允許負載 Max allowable load	90W	kg.cm	15.7	26.5	31.5	39.4	52.5	65.7	71	94.6	118	141	170	189											200
		N.m	1.54	2.6	3.1	3.86	5.15	6.44	6.96	9.28	11.6	13.9	16.7	18.5											19.6
	120W	kg.cm	21.5	36	42	54	70	87.5	98	126	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，可在電動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，并有堵轉情況存在時，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

5IK90(120)A-AF 5RK90(120)A-AF
5IK90(120)A-CF 5RK90(120)A-CF
5IK90(120)A-YF 5RK90(120)A-YF



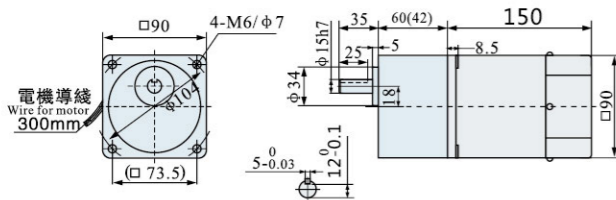
結構：電動機 Structure: Electric motor
重量：3.1kg Weight: 3.1kg

定速型

Optical axis type

齒輪品名 5GU □K
Name of Gear

5IK90(120)GU-AF 5RK90(120)GU-AF
5IK90(120)GU-CF 5RK90(120)GU-CF
5IK90(120)GU-U(Y)F 5RK90(120)GU-U(Y)F
5IK90(120)GU-SF 5RK90(120)GU-SF



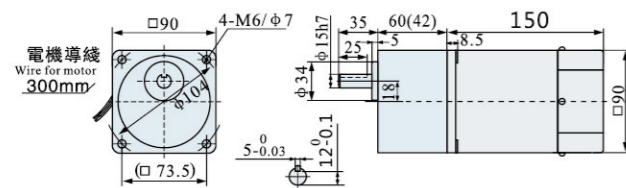
結構：減速器+電動機 Structure: Reducer+Electric motor
重量：3.8kg Weight: 3.8kg
減速比：1:3-1:500 Speed Reducing Ratio : 1:3-1:500

調速型

Speed regulation type

齒輪品名 5GU □K
Name of Gear

5IK90(120)RGU-AF 5RK90(120)RGU-AF
5IK90(120)RGU-CF 5RK90(120)RGU-CF



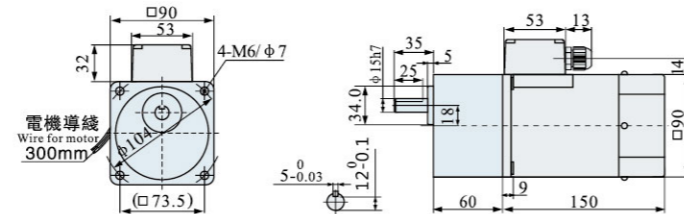
結構：減速器+電動機+調速器 Structure: Reducer+Electric motor+Speed governor
重量：3.9kg Weight: 3.9kg
減速比：1:3-1:500 Speed Reducing Ratio : 1:3-1:500

90GU帶端子箱型

With terminal box type

齒輪品名 5GU □K
Name of Gear

5IK90(120)GU-AFT 5RK90(120)GU-AFT
5IK90(120)GU-CFT 5RK90(120)GU-CFT
5IK90(120)GU-U(Y)FT 5RK90(120)GU-U(Y)FT
5IK90(120)GU-SFT 5RK90(120)GU-SFT



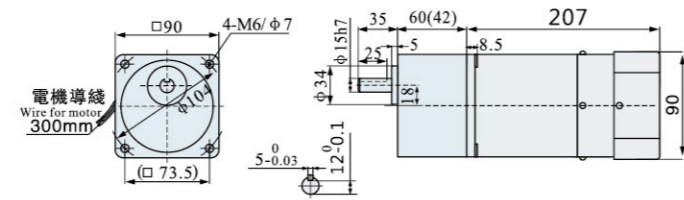
結構：減速器+電動機+端子箱 Structure: Reducer+Electric motor+Terminal box
重量：4.3kg Weight: 4.3kg
減速比：1:3-1:500 Speed Reducing Ratio : 1:3-1:500

剎車定速型

Brake Optical axis type

齒輪品名 5GU □K
Name of Gear

5IK90(120)GU-AFM 5RK90(120)GU-AFM
5IK90(120)GU-CFM 5RK90(120)GU-CFM
5IK90(120)GU-U(Y)FM 5RK90(120)GU-U(Y)FM
5IK90(120)GU-SFM 5RK90(120)GU-SFM



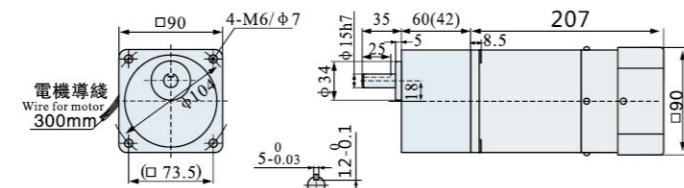
結構：減速器+電動機+剎車器 Structure: Reducer+Electric motor+Brake
重量：4kg Weight: 4kg
減速比：1:3-1:500 Speed Reducing Ratio : 1:3-1:500

剎車調速型

Brake Speed regulation type

齒輪品名 5GU □K
Name of Gear

5IK90(120)RGU-AFM 5RK90(120)RGU-AFM
5IK90(120)RGU-CFM 5RK90(120)RGU-CFM



結構：減速器+電動機+剎車器+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量：4.1kg Weight: 4.1kg
減速比：1:3-1:500 Speed Reducing Ratio : 1:3-1:500

AC GEAR MOTOR

90 / 120W / 90MM

交流減速電機



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
5IK90GU-CF 5IK90A-CF	感應 Induction	90	單相 1-phase 220	50	0.62	837	8370	670	6700	1350	5/450
				60	0.60	692	6920	554	5540	1550	5/450
5RK90GU-CF 5RK90A-CF	可逆 Reversible	90	單相 1-phase 220	50	0.68	837	8370	670	6700	1350	6/450
				60	0.72	692	6920	554	5540	1550	6/450
5IK90GU-AF 5IK90A-AF	感應 Induction	90	單相 1-phase 110	50	1.25	837	8370	670	6700	1350	20/250
				60	1.2	692	6920	554	5540	1550	18/250
5RK90GU-AF 5RK90A-AF	可逆 Reversible	90	單相 1-phase 110	50	1.38	837	8370	670	6700	1350	24/250
				60	1.5	692	6920	554	5540	1550	24/250
5IK90GU-UF 5IK90A-UF	—	90	三相 3-phase 380	50	0.32	837	8370	670	6700	1350	—
				60	0.3	692	6920	554	5540	1500	—
5RK90GU-SF 5RK90A-SF	—	90	三相 3-phase 220	50	0.55	837	8370	670	6700	1350	—
				60	0.48	692	6920	554	5540	1500	—
5IK120GU-CF 5IK120A-CF	感應 Induction	120	單相 1-phase 220	50	0.85	1137	11370	910	9100	1350	6/450
				60	0.82	955	9550	764	7640	1500	6/450
5RK120GU-CF 5RK120A-CF	可逆 Reversible	120	單相 1-phase 220	50	0.95	1137	11370	910	9100	1350	8/450
				60	1.0	955	9550	764	7640	1500	8/450
5IK120GU-AF 5IK120A-AF	感應 Induction	120	單相 1-phase 110	50	1.7	1137	11370	910	9100	1350	24/250
				60	1.65	955	9550	764	7640	1500	24/250
5RK120GU-AF 5RK120A-AF	可逆 Reversible	120	單相 1-phase 110	50	1.9	1137	11370	910	9100	1350	30/250
				60	2.1	955	9550	764	7640	1500	30/250
5RK120GU-UF 5RK120A-UF	—	120	三相 3-phase 380	50	0.34	1137	11370	910	9100	1350	—
				60	0.31	955	9550	764	7640	1500	—
5RK120GU-SF 5RK120A-SF	—	120	三相 3-phase 220	50	0.59	1137	11370	910	9100	1350	—
				60	0.54	955	9550	764	7640	1500	—

- 上表參數是指電機單體，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

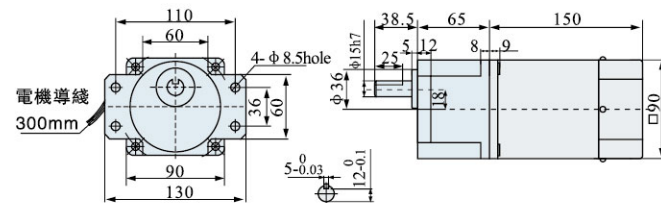
Allowable load for the gear motor

減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	減速比i ratio																							
		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	
最大允許負載 Max allowable load	90W	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	
120W	kg.cm	21.5	36	42	54	70	87.57	98	126	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，可在電動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，并有堵轉情況存在時，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.

定速型 齒輪品名 5GS□K
Optical axis type Name of Gear

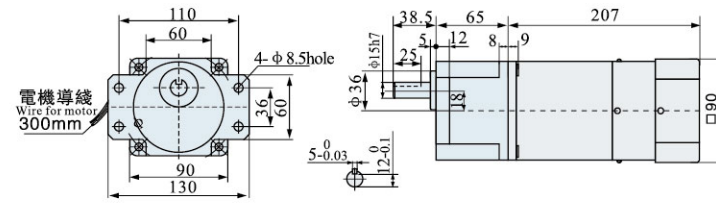
51K90(120)GU-AF 5RK90(120)GU-AF
51K90(120)GU-CF 5RK90(120)GU-CF
51K90(120)GU-U(Y)F 5RK90(120)GU-U(Y)F
51K90(120)GU-SF 5RK90(120)GU-SF



結構: 減速器+電動機 Structure: Reducer+Electric motor
重量: 4.4kg Weight: 4.4kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

剎車定速型 齒輪品名 5GS□K
Brake Optical axis type Name of Gear

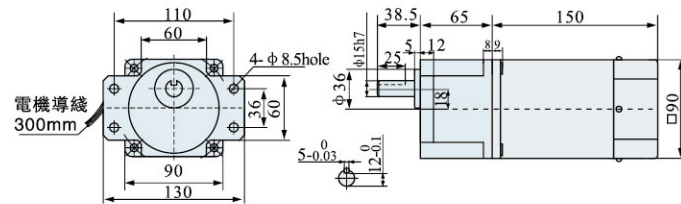
51K90(120)GU-AFM 5RK90(120)GU-AFM
51K90(120)GU-CFM 5RK90(120)GU-CFM
51K90(120)GU-U(Y)FM 5RK90(120)GU-U(Y)FM
51K90(120)GU-SFM 5RK90(120)GU-SFM



結構: 減速器+電動機+剎車器 Structure: Reducer+Electric motor+Brake
重量: 4.9kg Weight: 4.9kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

調速型 齒輪品名 5GS□K
Speed regulation type Name of Gear

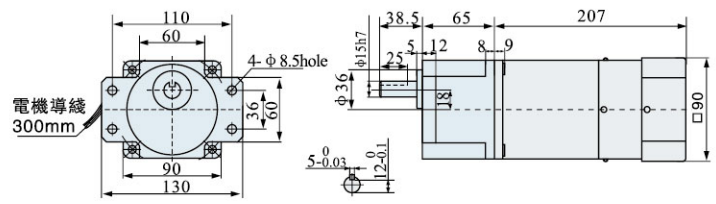
51K90(120)RGU-AF 5RK90(120)RGU-AF
51K90(120)RGU-CF 5RK90(120)RGU-CF



結構: 減速器+電動機+調速器 Structure: Reducer+Electric motor+Speed governor
重量: 4.5kg Weight: 4.5kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

剎車調速型 齒輪品名 5GS□K
Brake Speed regulation type Name of Gear

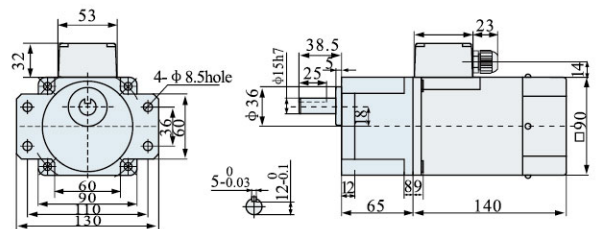
51K90(120)RGU-AFM 5RK90(120)RGU-AFM
51K90(120)RGU-CFM 5RK90(120)RGU-CFM



結構: 減速器+電動機+剎車器+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量: 4.9kg Weight: 4.9kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

帶端子箱型 齒輪品名 5GS□K
With terminal box type Name of Gear

51K90(120)GU-AFT 5RK90(120)GU-AFT
51K90(120)GU-CFT 5RK90(120)GU-CFT
51K90(120)GU-U(Y)FT 5RK90(120)GU-U(Y)FT
51K90(120)GU-SFT 5RK90(120)GU-SFT



結構: 減速器+電動機+端子箱 Structure: Reducer+Electric motor+Terminal box
重量: 4.5kg Weight: 4.5kg
減速比: 1:3-1:500 Speed Reducing Ratio: 1:3-1:500

AC GEAR MOTOR

140W / 90MM
交流減速电机



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	電容量/耐壓 Capacity/Ve μF/VAC
公司型號 JWD types									
5RK-140GU-CF	可逆式 Reversible	140	單相 1-phase 220	50	1.02	1188	990	1350	10μF/500V
51K-140GU-CF	感應 Induction			60	1.25	1034	862	1550	
5RK-140GU-AF	可逆式 Reversible	140	單相 1-phase 110	50	3.6	1188	990	1350	30μF/250V
51K-140GU-AF	感應 Induction			60	4.0	1034	862	1550	
5RK-140GU-UF	—	140	三相 3-phase 380	50	0.5	1016	990	1350	—
51K-140GU-UF	—			60	0.63	1034	862	1550	
5RK-140GU-SF	—	140	三相 3-phase 220	50	1.72	1188	990	1350	—
51K-140GU-SF	—			60	1.85	1034	862	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

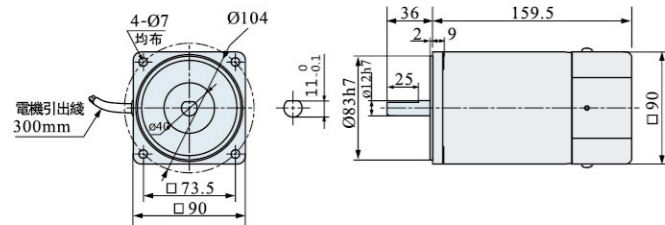
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	500	375	300	250	200	150	120	100	83	75	60	50	40	35	30	25	20
	減速比 ratio	3	4	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75
最大允許負載 Max allowable load	140W	kg.cm	26.9	35.2	44.2	54.3	65.1	86.1	111.3	130.1	155.2	168.3						
		N.m	2.68	3.5	4.4	5.4	6.5	8.5	11.1	12.7	15.2	16.7						

- 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, 可在電動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, 并有堵轉情況存在時, 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 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

51K140A-AF 5RK140A-AF
51K140A-CF 5RK140A-CF
51K140A-YF 5RK140A-YF



結構：電動機
重量：3.5kg
Structure: Electric motor
Weight: 3.5kg

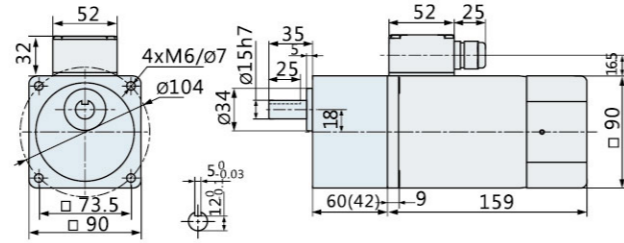
帶端子箱型

With terminal box type

齒輪品名 5GU □K

Name of Gear

51K140GU-AFT 5RK140GU-AFT
51K140GU-CFT 5RK140GU-CFT
51K140GU-U(Y)FT 5RK140GU-U(Y)FT
51K140GU-SFT 5RK140GU-SFT



結構：減速器+電動機+端子箱
重量：4.9kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Terminal box
Weight: 4.9kg
Speed Reducing Ratio: 1:3-1:500

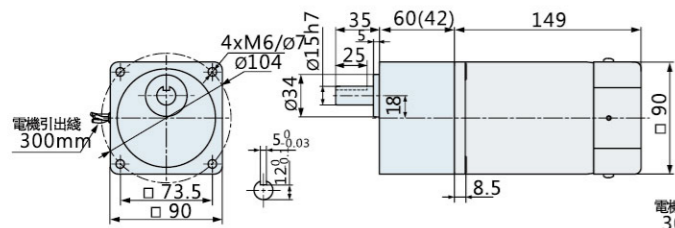
定速型

Optical axis type

齒輪品名 5GU □K

Name of Gear

51K140GU-AF 5RK140GU-AF
51K140GU-CF 5RK140GU-CF
51K140GU-U(Y)F 5RK140GU-U(Y)F
51K140GU-SF 5RK140GU-SF



結構：減速器+電動機
重量：4.7kg
減速比：1:3-1:500
Structure: Reducer+Electric motor
Weight: 4.7kg
Speed Reducing Ratio: 1:3-1:500

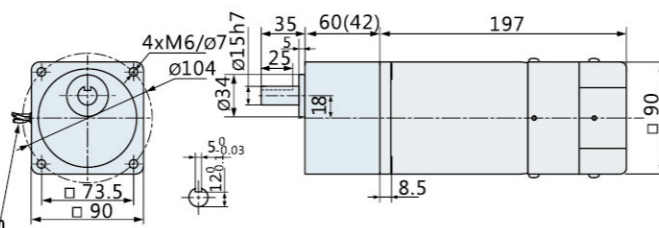
剎車定速型

Brake Optical axis type

齒輪品名 5GU □K

Name of Gear

51K140GU-AFM 5RK140GU-AFM
51K140GU-CFM 5RK140GU-CFM
51K140GU-U(Y)FM 5RK140GU-U(Y)FM
51K140GU-SFM 5RK140GU-SFM



結構：減速器+電動機+剎車器
重量：5.1kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Brake
Weight: 5.1kg
Speed Reducing Ratio: 1:3-1:500

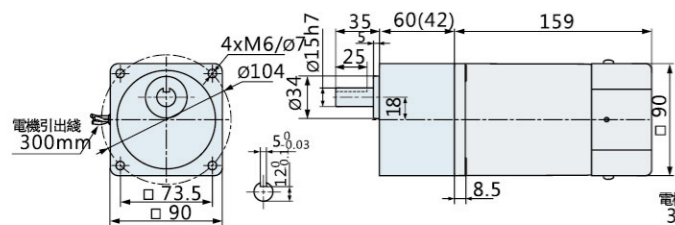
調速型

Speed regulation type

齒輪品名 5GU □K

Name of Gear

51K140RGU-AF 5RK140RGU-AF
51K140RGU-CF 5RK140RGU-CF



結構：減速器+電動機+調速器
重量：4.8kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Speed governor
Weight: 4.8kg
Speed Reducing Ratio: 1:3-1:500

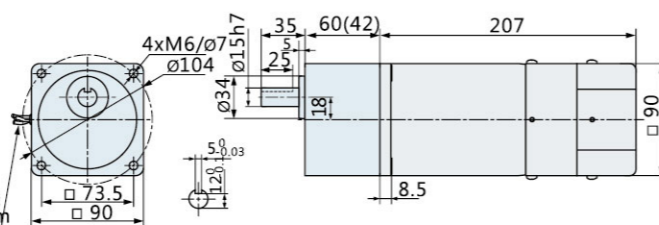
剎車調速型

Brake Speed regulation type

齒輪品名 5GU □K

Name of Gear

51K140RGU-AFM 5RK140RGU-AFM
51K140RGU-CFM 5RK140RGU-CFM



結構：減速器+電動機+剎車器+調速器
重量：5.2kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Brake+Speed governor
Weight: 5.2kg
Speed Reducing Ratio: 1:3-1:500

AC GEAR MOTOR

180W / 90MM

交流減速電機



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	電容量/耐壓 Capacity/Ve µF/VAC
公司型號 JWD types									
5RK-180GU-CF	可逆式 Reversible	180	單相 1-phase 220	50	1.3	1528	1273	1350	10µF/500V
51K-180GU-CF	感應 Induction			60	1.47	1331	1109	1550	
5RK-180GU-AF	可逆式 Reversible	180	單相 1-phase 110	50	1.9	1528	1273	1350	30µF/250V
51K-180GU-AF	感應 Induction			60	2.4	1331	1109	1550	
5RK-180GU-UF	—	180	三相 3-phase 380	50	0.6	1284	1228	1400	—
51K-180GU-UF	—			60	0.8	1331	1109	1550	
5RK-180GU-SF	—	180	三相 3-phase 220	50	1.5	1284	1228	1400	—
51K-180GU-SF	—			60	1.7	1331	1109	1550	

- 上表參數是指電機單體，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

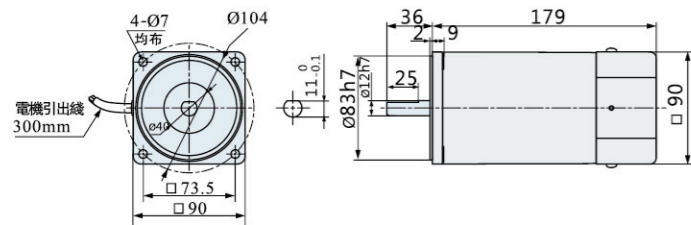
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	500	375	300	250	200	150	120	100	83	75	60	50	40	35	30	25	20	
		減速比 ratio																	
最大允許負載 Max allowable load	180W	kg.cm	35.2	45.2	56.1	68.3	87.1	113.3	143.5	163.2									
		N.m	3.4	4.5	5.5	6.7	8.6	11.3	14.3	16.3									

- 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，可在電動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，并有堵轉情況存在時，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

51K180A-AF 5RK180A-AF
51K180A-CF 5RK180A-CF
51K180A-YF 5RK180A-YF



結構：電動機
重量：3.8kg
Structure: Electric motor
Weight: 3.8kg

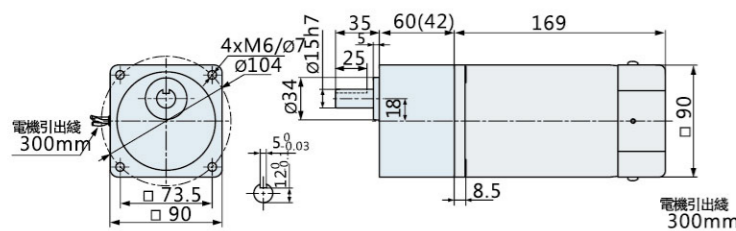
定速型

Optical axis type

齒輪品名

Name of Gear 5GU □K

51K180GU-AF 5RK180GU-AF
51K180GU-CF 5RK180GU-CF
51K180GU-U(Y)F 5RK180GU-U(Y)F
51K180GU-SF 5RK180GU-SF



結構：減速器+電動機
重量：5.3kg
減速比：1:3-1:500
Structure: Reducer+Electric motor
Weight: 5.3kg
Speed Reducing Ratio: 1:3-1:500

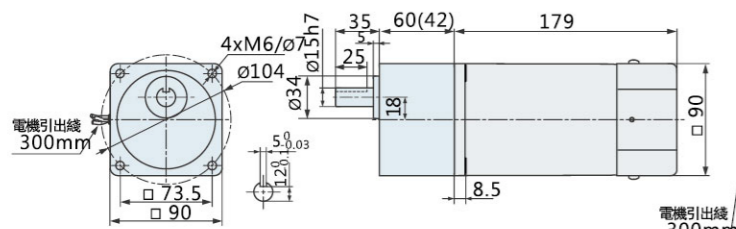
調速型

Speed regulation type

齒輪品名

Name of Gear 5GU □K

51K180RGU-AF 5RK180RGU-AF
51K180RGU-CF 5RK180RGU-CF



結構：減速器+電動機+調速器
重量：5.4kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Speed governor
Weight: 5.4kg
Speed Reducing Ratio: 1:3-1:500

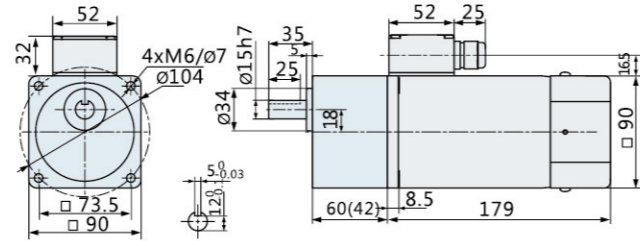
帶端子箱型

With terminal box type

齒輪品名

Name of Gear 5GU □K

51K180GU-AFT 5RK180GU-AFT
51K180GU-CFT 5RK180GU-CFT
51K180GU-U(Y)FT 5RK180GU-U(Y)FT
51K180GU-SFT 5RK180GU-SFT



結構：減速器+電動機+端子箱
重量：5.5kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Terminal box
Weight: 5.5kg
Speed Reducing Ratio: 1:3-1:500

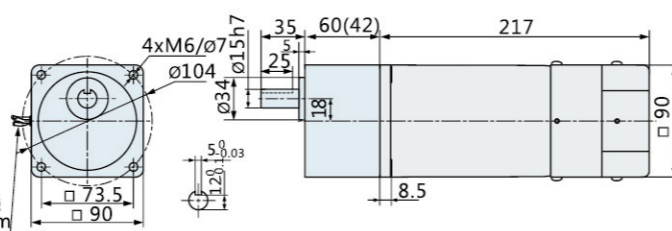
剎車定速型

Brake Optical axis type

齒輪品名

Name of Gear 5GU □K

51K180GU-AFM 5RK180GU-AFM
51K180GU-CFM 5RK180GU-CFM
51K180GU-U(Y)FM 5RK180GU-U(Y)FM
51K180GU-SFM 5RK180GU-SFM



結構：減速器+電動機+剎車器
重量：5.7kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Brake
Weight: 5.7kg
Speed Reducing Ratio: 1:3-1:500

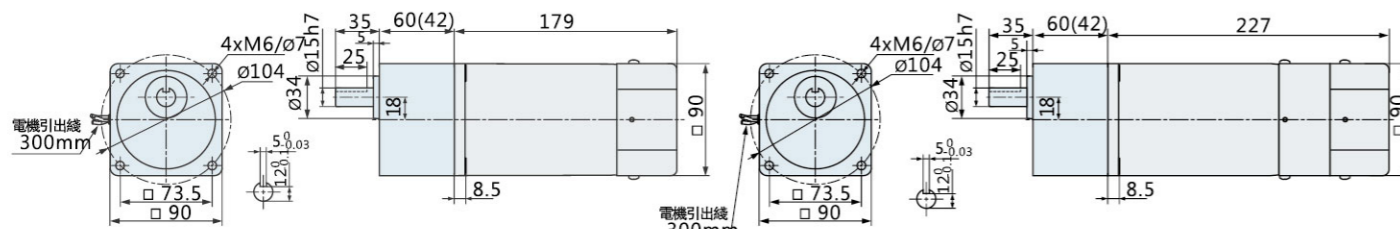
剎車調速型

Brake Speed regulation type

齒輪品名

Name of Gear 5GU □K

51K180RGU-AFM 5RK180RGU-AFM
51K180RGU-CFM 5RK180RGU-CFM



結構：減速器+電動機+剎車器+調速器
重量：5.8kg
減速比：1:3-1:500
Structure: Reducer+Electric motor+Brake+Speed governor
Weight: 5.8kg
Speed Reducing Ratio: 1:3-1:500

AC GEAR MOTOR

120 / 140W / 100MM

交流減速電機



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	電容量/耐壓 Capacity/Ve µF/VAC
6IK120GU-CF 6IK120A-CF	感應 Induction	120	單相 1-phase 220	50	1.0	1100	11000	1350	6/450
6RK120GU-CF 6RK120A-CF	可逆 Reversible			60	1.0	925	9250	740	7400
6IK120GU-AF 6IK120A-AF	感應 Induction	120	單相 1-phase 110	50	1.2	1575	15750	1350	8/450
6RK120GU-AF 6RK120A-AF	可逆 Reversible			60	1.4	1225	12250	980	9800
6IK120GU-UF 6IK120A-UF	—	120	三相 3-phase 380	50	1.7	1100	11000	1350	30/250
6RK120GU-UF 6RK120A-UF	—			60	1.6	925	9250	740	7400
6IK120GU-SF 6IK120A-SF	—	120	三相 3-phase 220	50	1.8	1575	15750	1350	32/250
6RK120GU-SF 6RK120A-SF	—			60	2.0	1225	12250	980	9800
6IK140GU-CF 6IK140A-CF	感應 Induction	140	單相 1-phase 220	50	0.46	1100	11000	1350	—
6RK140GU-CF 6RK140A-CF	可逆 Reversible			60	0.42	925	9250	740	7400
6IK140GU-AF 6IK140A-AF	感應 Induction	140	單相 1-phase 110	50	0.8	1100	11000	1350	—
6RK140GU-AF 6RK140A-AF	可逆 Reversible			60	0.73	925	9250	740	7400
6IK140GU-UF 6IK140A-UF	—	140	三相 3-phase 380	50	1.23	1285	12850	1350	8/450
6RK140GU-UF 6RK140A-UF	—			60	1.12	1078	10780	863	8630
6IK140GU-SF 6IK140A-SF	—	140	三相 3-phase 220	50	1.3	1285	12850	1350	10/450
6RK140GU-SF 6RK140A-SF	—			60	1.43	1078	10780	863	8630
6IK140GU-UF 6IK140A-UF	—	140	三相 3-phase 380	50	2.05	1285	12850	1350	32/250
6RK140GU-UF 6RK140A-UF	—			60	1.9	1078	10780	863	8630
6IK140GU-SF 6IK140A-SF	—	140	三相 3-phase 220	50	2.2	1285	12850	1350	40/250
6RK140GU-SF 6RK140A-SF	—			60	2.4	1078	10780	863	8630

- 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

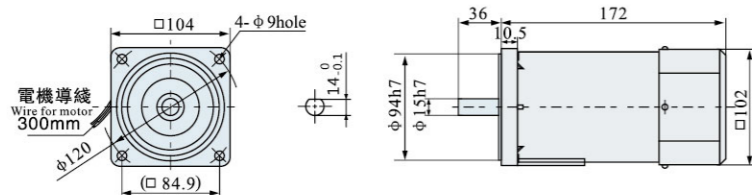
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	減速比i ratio																								
		500	300	200	150	120	100	83	75	60	50	41	37	30	25	20	15	12	10	8	7	6	5	3		
最大允許負載 Max allowable load	120W	kg.cm N.m	21.5	36	54	69.8	85	103	125	139	172	209	226	251											315	31
	140W	kg.cm N.m	25.1	42	63	73.5	99.2	120	132	147	200.7	221	238	265											330	32.5

- 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，可在電動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，并有堵轉情況存在時，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

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



結構：電動機 Structure: Electric motor
重量：4.8kg Weight: 4.8kg

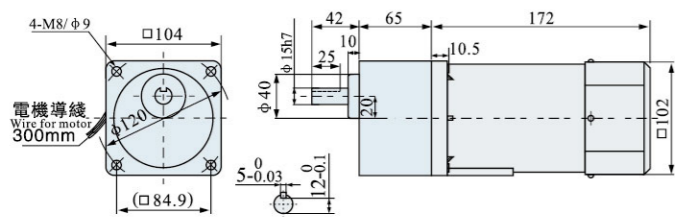
定速型

Optical axis type

齒輪品名

Name of Gear 6GU□K

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



結構：減速器+電動機 Structure: Reducer+Electric motor
重量：6.4kg Weight: 6.4kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250

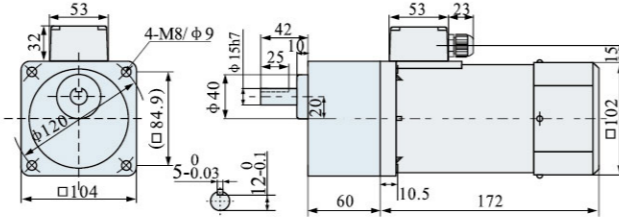
帶端子箱型

With terminal box type

齒輪品名

Name of Gear 6GU□K

6IK120(140)GU-AFT 6RK120(140)GU-AFT
6IK120(140)GU-CFT 6RK120(140)GU-CFT
6IK120(140)GU-U(Y)FT 6RK120(140)GU-U(Y)FT
6IK120(140)GU-SFT 6RK120(140)GU-SFT



結構：減速器+電動機+端子箱 Structure: Reducer+Electric motor+Terminal box
重量：6.5kg Weight: 6.5kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250

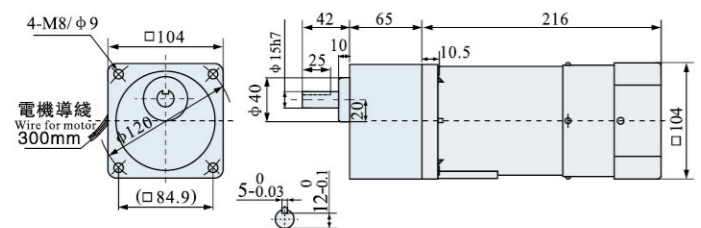
剎車定速型

Brake Optical axis type

齒輪品名

Name of Gear 6GU□K

6IK120(140)GU-AFM 6RK120(140)GU-AFM
6IK120(140)GU-CFM 6RK120(140)GU-CFM
6IK120(140)GU-YFM 6RK120(140)GU-YFM



結構：減速器+電動機+剎車器 Structure: Reducer+Electric motor+Brake
重量：6.9kg Weight: 6.9kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250

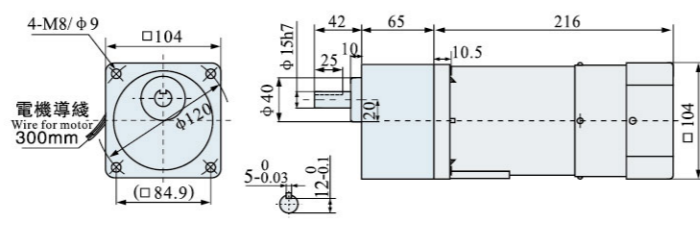
剎車調速型

Brake Speed regulation type

齒輪品名

Name of Gear 6GU□K

6IK120(140)RGU-AFM 6RK120(140)RGU-AFM
6IK120(140)RGU-CFM 6RK120(140)RGU-CFM



結構：減速器+電動機+剎車器+調速器 Structure: Reducer+Electric motor+Brake+Speed governor
重量：6.9kg Weight: 6.9kg
減速比：1:3-1:250 Speed Reducing Ratio : 1:3-1:250

AC GEAR MOTOR

160 / 180W / 100MM

交流減速电机



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
6IK160GU-CF 6IK160A-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
6RK160GU-CF 6RK160A-CF	可逆 Reversible			50	1.4	1575	15750	1260	12600	1350	10/450
				60	1.46	1225	12250	980	9800	1550	10/450
6IK160GU-AF 6IK160A-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
6RK160GU-AF 6RK160A-AF	可逆 Reversible			50	2.6	1575	15750	1260	12600	1350	40/250
				60	2.8	1225	12250	980	9800	1550	36/250
6IK160GU-UF 6IK160A-UF	—	160	三相 3-phase 380	50	0.55	1468	14680	1175	11750	1350	—
				60	0.50	1232	12320	986	9860	1550	—
6RK160GU-SF 6RK160A-SF	—			50	0.95	1468	14680	1175	11750	1350	—
				60	0.86	1232	12320	986	9860	1550	—
6IK180GU-CF 6IK180A-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
6RK180GU-CF 6RK180A-CF	可逆 Reversible			50	1.50	1837	18370	1470	14700	1350	12/450
				60	1.46	1540	15400	1232	12320	1550	12/450
6IK180GU-AF 6IK180A-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
6RK180GU-AF 6RK180A-AF	可逆 Reversible			50	2.8	1837	18370	1470	14700	1350	48/250
				60	2.6	1540	15400	1232	12320	1550	48/250
6RK180GU-UF 6RK180A-UF	—	180	三相 3-phase 380	50	0.80	1825	18250	1460	14600	1350	—
				60	0.75	1475	14750	1180	11800	1550	—
6RK180GU-SF 6RK180A-SF	—			50	1.05	1825	18250	1460	14600	1350	—
				60	1.0	1475	14750	1180	11800	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

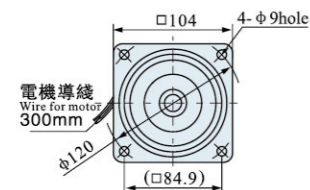
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	減速比i ratio																					
		500	300	200	150	120	100	83	75	60	50	41	37	30	25	20	15	12	10	8	7	6	5
最大允許負載 Max allowable load	160W	kg.cm	28.7	48	72	87	113.3	137.3	157	174	229	261	285	317	396							440	
	N.m	2.81	4.69	7.04	8.53	11.27	13.53	15.4	17	22.6	25.6	28	31.1	38.8							43		
180W	kg.cm	32.3	54	81	94.7	127.5	154.5	170	189	237	284	310	344	430							440		
	N.m	3.17	5.28	7.92	9.28	12.68	15.23	16.7	18.7	23.2	27.8	30.1	33.4	42.2							43		

● 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，可在電動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，且有堵轉情況存在時，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

6IK160(180)A-AF 6RK160(180)A-AF
6IK160(180)A-CF 6RK160(180)A-CF
6IK160(180)A-YF 6RK160(180)A-YF



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

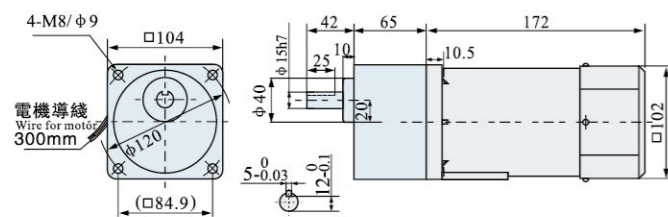
定速型

Optical axis type

齒輪品名

Name of Gear 6GU□K

6IK160(180)GU-AF 6RK160(180)GU-AF
6IK160(180)GU-CF 6RK160(180)GU-CF
6IK160(180)GU-YF 6RK160(180)GU-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

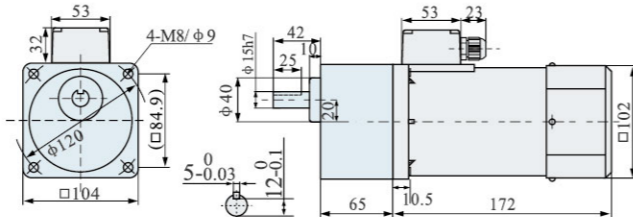
帶端子箱型

With terminal box type

齒輪品名

Name of Gear 6GU□K

6IK160(180)GU-AFT 6RK160(180)GU-AFT
6IK160(180)GU-CFT 6RK160(180)GU-CFT
6IK160(180)GU-U(Y)FT 6RK160(180)GU-U(Y)FT
6IK160(180)GU-SFT 6RK160(180)GU-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

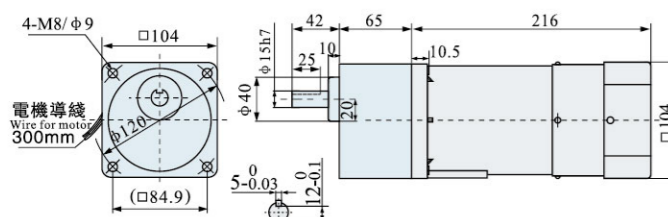
剎車定速型

Brake Optical axis type

齒輪品名

Name of Gear 6GU□K

6IK160(180)GU-AFM 6RK160(180)GU-AFM
6IK160(180)GU-CFM 6RK160(180)GU-CFM
6IK160(180)GU-YFM 6RK160(180)GU-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

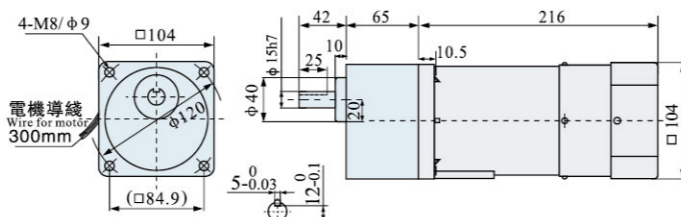
剎車調速型

Brake Speed regulation type

齒輪品名

Name of Gear 6GU□K

6IK160(180)RGU-AFM 6RK160(180)RGU-AFM
6IK160(180)RGU-CFM 6RK160(180)RGU-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

AC GEAR MOTOR

200 / 250W / 100MM

交流減速電機



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	電容容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
6IK200GU-CF 6IK200A-CF	感應 Induction	200	單相 1-phase 220	50	1.55	1485	14850	1414	14140	1350	8/450
				60	1.5	1294	12940	1232	12320	1550	8/450
				50	1.55	1485	14850	1414	14140	1350	10/450
6RK200GU-CF 6RK200A-CF	可逆 Reversible	200	單相 1-phase 110	50	1.5	1294	12940	1232	12320	1550	10/450
				60	1.5	1294	12940	1232	12320	1550	10/450
				50	3.0	1485	14850	1414	14140	1350	32/250
6IK200GU-AF 6IK200A-AF	感應 Induction	200	單相 1-phase 110	60	2.8	1294	12940	1232	12320	1550	30/250
				50	3.0	1485	14850	1414	14140	1350	40/250
				60	2.8	1294	12940	1232	12320	1550	36/250
6RK200GU-AF 6RK200A-AF	可逆 Reversible	200	三相 3-phase 380	50	0.9	1600	16000	1450	14500	1350	—
				60	0.87	1386	13860	1260	12600	1550	—
				50	1.15	1600	16000	1450	14500	1350	—
6RK200GU-SF 6RK200A-SF	—	200	三相 3-phase 220	60	1.1	1386	13860	1260	12600	1550	—
				50	1.6	2020	20200	1837	18370	1350	10/450
				60	1.55	1700	17000	1540	15400	1550	10/450
6IK250GU-CF 6IK250A-CF	感應 Induction	250	單相 1-phase 220	50	1.6	2020	20200	1837	18370	1350	10/450
				60	1.6	2020	20200	1837	18370	1350	12/450
				60	1.55	1700	17000	1540	15400	1550	12/450
6RK250GU-CF 6RK250A-CF	可逆 Reversible	250	單相 1-phase 110	50	3.2	2020	20200	1837	18370	1350	40/250
				60	3.0	1700	17000	1540	15400	1550	40/250
				50	3.3	2020	20200	1837	18370	1350	48/250
6IK250GU-AF 6IK250A-AF	感應 Induction	250	單相 1-phase 110	60	3.2	1700	17000	1540	15400	1550	48/250
				50	1.3	2022	20220	1840	18400	1350	—
				60	1.2	1760	17600	1600	16000	1550	—
6RK250GU-AF 6RK250A-AF	可逆 Reversible	250	三相 3-phase 380	50	1.21	2022	20220	1840	18400	1350	—
				60	1.15	1760	17600	1600	16000	1550	—
				50	1.21	2022	20220	1840	18400	1350	—
6RK250GU-UF 6RK250A-UF	—	250	三相 3-phase 220	60	1.15	1760	17600	1600	16000	1550	—
				50	1.21	2022	20220	1840	18400	1350	—
				60	1.15	1760	17600	1600	16000	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

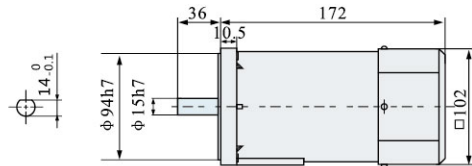
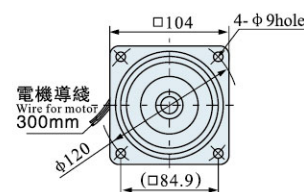
減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	減速比i ratio																				
		500	300	200	150	120	100	85	75	60	50	40	37	30	25	20	15	12	10	8	7	6
最大允許負載 Max allowable load	200W	kg.cm	39.4	66	89.8	119	149	180	214	239	299	358	392	435								440
	N.m	3.86	6.44	8.8	11.7	14.5	17.6	21.0	23.4	29.3	35.1	38.4	42.6								43	
250W	kg.cm	49.3	82.1	112	149	180	224	268	298	375	438											440
	N.m	4.83	8.1	11	14.6	18.3	22	26.4	29.3	36.6	43											43

● 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，可在電動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，并有堵轉情況存在時，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

6IK200(250)A-AF 6RK200(250)A-AF
6IK200(250)A-CF 6RK200(250)A-CF
6IK200(250)A-YF 6RK200(250)A-YF



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

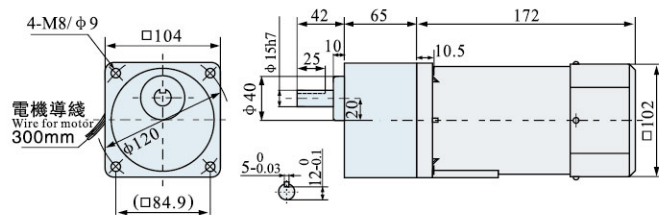
定速型

Optical axis type

齒輪品名

Name of Gear 6GU□K

6IK200(250)GU-AF 6RK200(250)GU-AF
6IK200(250)GU-CF 6RK200(250)GU-CF
6IK200(250)GU-YF 6RK200(250)GU-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

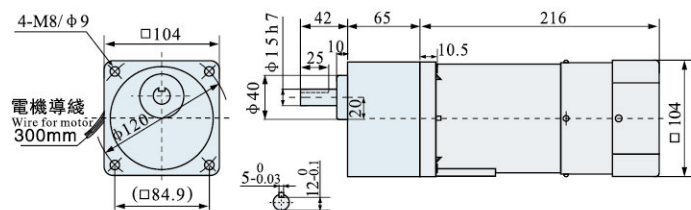
剎車定速型

Brake Optical axis type

齒輪品名

Name of Gear 6GU□K

6IK200(250)GU-AFM 6RK200(250)GU-AFM
6IK200(250)GU-CFM 6RK200(250)GU-CFM
6IK200(250)GU-YFM 6RK200(250)GU-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

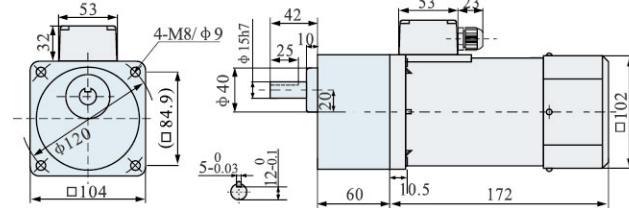
帶端子箱型

With terminal box type

齒輪品名

Name of Gear 6GU□K

6IK200(250)GU-AFT 6RK200(250)GU-AFT
6IK200(250)GU-CFT 6RK200(250)GU-CFT
6IK200(250)GU-U(Y)FT 6RK200(250)GU-U(Y)FT
6IK200(250)GU-SFT 6RK200(250)GU-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

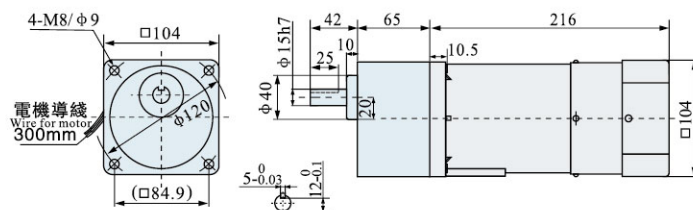
剎車調速型

Brake Speed regulation type

齒輪品名

Name of Gear 6GU□K

6IK200(250)RGU-AFM 6RK200(250)RGU-AFM
6IK200(250)RGU-CFM 6RK200(250)RGU-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

AC GEAR MOTOR

370W / 100MM

交流減速電機



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
6IK370GU-CF 6IK370A-CF	感應 Induction	370	單相 1-phase 220	50	2.3	2944	29440	2560	25660	1350	15/450
				60	2.1	2622	26220	2280	22880	1550	15/450
6RK370GU-CF 6RK370A-CF	可逆 Reversible	370	單相 1-phase 110	50	2.3	2944	29440	2560	25660	1350	15/450
				60	2.1	2622	26220	2280	22880	1550	15/450
6IK370GU-AF 6IK370A-AF	感應 Induction	370	單相 1-phase 110	50	3.0	2944	29440	2560	25660	1350	32/250
				60	2.8	2622	26220	2280	22880	1550	30/250
6RK370GU-AF 6RK370A-AF	可逆 Reversible	370	單相 1-phase 110	50	3.0	2944	29440	2560	25660	1350	40/250
				60	2.8	2622	26220	2280	22880	1550	36/250
6IK370GU-UF 6IK370A-UF	—	370	三相 3-phase 380	50	1.4	3018	30180	2624	26240	1350	—
				60	1.2	2680	26800	2330	23300	1550	—
6RK370GU-SF 6RK370A-SF	—	370	三相 3-phase 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/mn Synchronous speed	500	300	200	150	120	100	85	75	60	50	40	37	30	25	20	15	12	10	8	7	6					
		減速比i ratio																									
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	

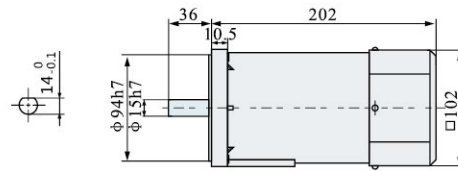
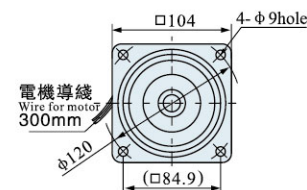
● 轉速是以電動機的同步轉速為基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2-15%左右。
● 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比為10的中間減速機。
● 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。
● The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of. Actual speed 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

6IK370A-AF 6RK370A-AF
6IK370A-CF 6RK370A-CF
6IK370A-YF 6RK370A-YF



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

定速型

Optical axis type

齒輪品名

Name of Gear 6GU□K

6IK370CU-AF 6RK370CU-AF
6IK370GU-CF 6RK370GU-CF
6IK370GU-YF 6RK370GU-YF

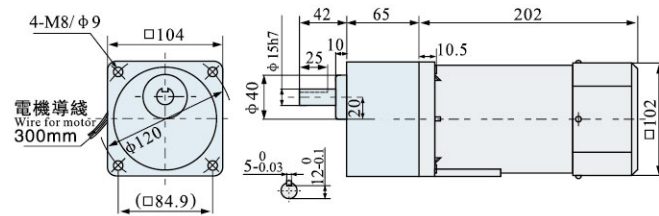
帶端子箱型

With terminal box type

齒輪品名

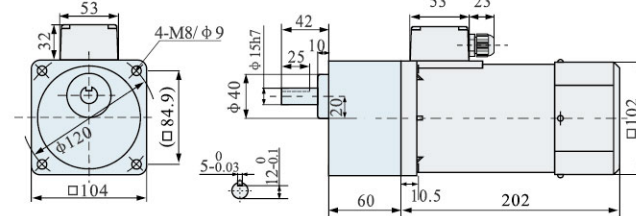
Name of Gear 6GU□K

6IK370CU-AFT 6RK370CU-AFT
6IK370GU-CFT 6RK370GU-CFT
6IK370GU-U(Y)YF 6RK370GU-U(Y)YF
6IK370GU-SFT 6RK370GU-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 Optical axis type

齒輪品名

Name of Gear 6GU□K

6IK370CU-AFM 6RK370CU-AFM
6IK370GU-CFM 6RK370GU-CFM
6IK370GU-YFM 6RK370GU-YFM

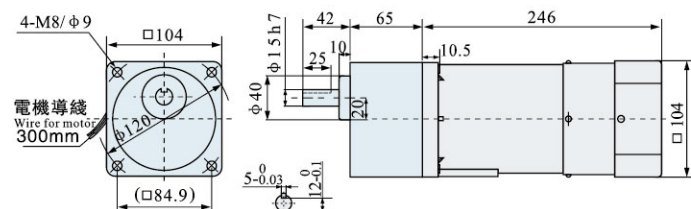
剎車調速型

Brake Speed regulation type

齒輪品名

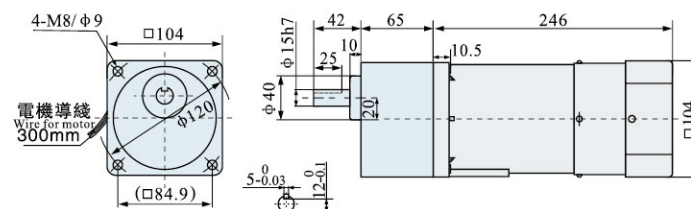
Name of Gear 6GU□K

6IK370RCU-AFM 6RK370RCU-AFM
6IK370RGU-CFM 6RK370RGU-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

AC GEAR MOTOR

400W / 120MM

交流減速电机

電機特性

List of motor characteristics

電機型號 Motor model	電機類型 Motor type	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 N.m	額定扭矩 Rated Torque N.m	額定轉速 Rated Revolution r/min	電容容量/耐壓 Capacity/Ve μF/VAC
7IK400GU-AF	感應 Induction	400	單相 1-phase 110	60	5.12	2.65	2.2	1650	90/250
7IK400GU-CF			單相 1-phase 220	50	2.65	3.3	2.7	1400	15/500
7IK400GU-UF	感應 Induction	400	三相 3-phase 380	50	1.07	6.75	2.7	1400	
7IK400GU-SF			三相 3-phase 220	60	1.85	5.5	2.2	1650	

- 上表參數是指電機單體，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。

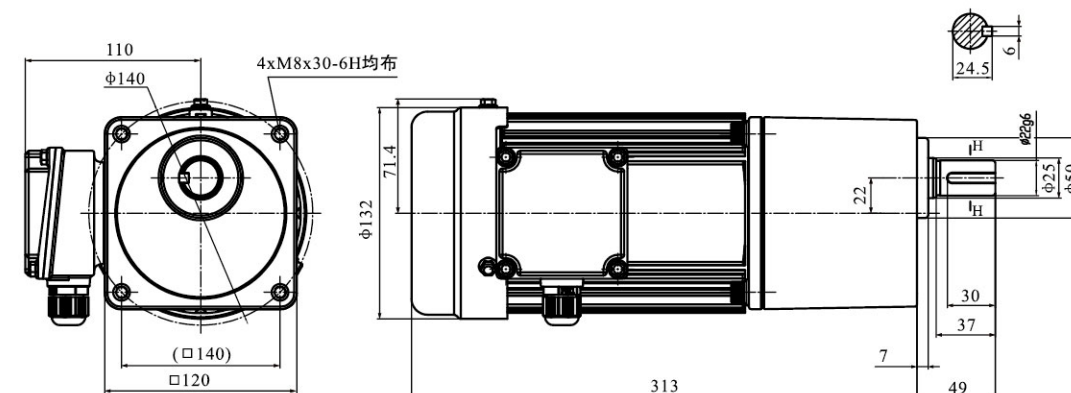
- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

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/mn Synchronous speed	300	200	150	120	100	83	75	60	50	41.7	37.5	30	25	20	16.7	15	12.5	10	8.3	
	減速比i ratio		5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180
輸出轉矩及 最大允許負載 Max allowable load	50Hz	kgf.cm	118.5	177.6	236.7	295.9	332.7	399	443.9	554.1	665.3	798.0	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5
		N.m	11.6	17.4	23.2	29.0	32.6	39.1	43.5	54.3	65.2	78.2	81	81	81	81	81	81	81	81	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。實際轉速將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，可在電動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，并有堵轉情況存在時，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.



AC GEAR MOTOR

750W / 120MM
交流减速电机



電機特性

List of motor characteristics

電機型號 Motor model	電機類型 Motor type	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 N.m	額定扭矩 Rated Torque N.m	額定轉速 Rated Revolution r/min
71K750GU-UF	感應 Induction	750	三相 3-phase 380	50	2.0	11.9	5.4	1400
71K750GU-SF			三相 3-phase 220	60	3.2	9.9	4.5	1650

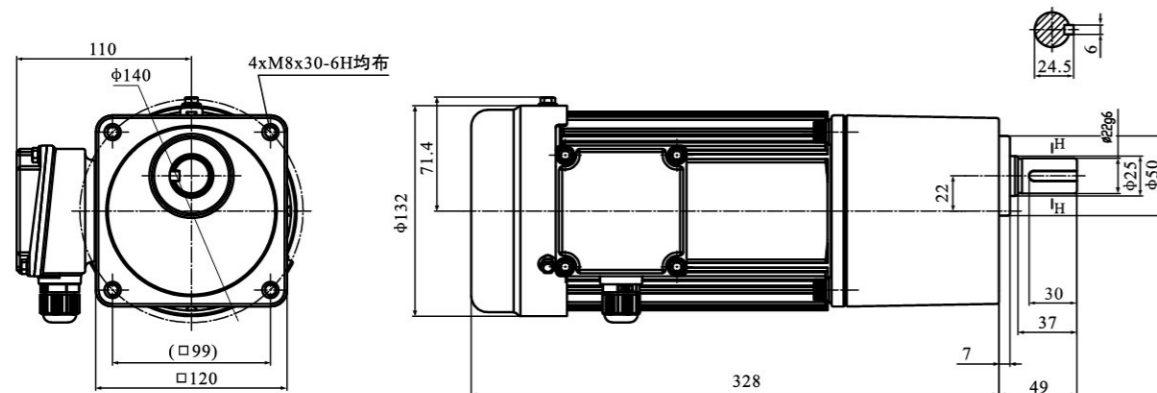
- 上表參數是指電機單獨，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。
- Parameters in above table refer to motor alone, without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

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/mn Synchronous speed	300	200	150	120	100	83	75	60	50	41.7	37.5	30	25	20	16.7	15	12.5	10	8.3
	減速比 ratio	5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180
輸出轉矩及 最大允許負載 Max allowable load	50Hz	kgf.cm	236.7	355.1	473.5	592.9	661.2	794.0	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5
		N.m	23.2	34.8	46.4	58.1	64.8	77.8	81	81	81	81	81	81	81	81	81	81	81	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。實際轉速將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，可在電動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，并有堵轉情況存在時，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.



交流馬達型號之選定

The selection for AC motor and gear

4	R	K	25	GN	A	
外形尺寸 Overall Dimensions	機種 Kinds	馬達系列 Motor Series	出力 Output Force	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 8:145mm	I:感應式 R:可逆式 T:轉矩馬達	I: Inductive R: Reversible T: Torque Motor K系列 K Series	25=25W 30=30W 40=40W 60=60W 90=90W 120=120W 140=140W 160=160W 180=180W 200=200W 250=250W 400=400W 750=750W 1500=1500W	GN螺旋齒軸 (25W~40W馬達) GN Spiral Toothing Axis (25W~40W moter) GU螺旋齒軸 (60W~250W馬達) GU Spiral Toothing Axis (60W~250W moter)	A=1 φ 110V4P B=1 φ 110V2P C=1 φ 220V4P D=1 φ 220V2P S=3 φ 220V4P U=3 φ 380V4P W=3 φ 440V4P Y=3 φ 220/380V4P Z=3 φ 220/440V4P H=3 φ 380V2P L=480V 4P	F: 風扇 F: Fan M: 電磁制車 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

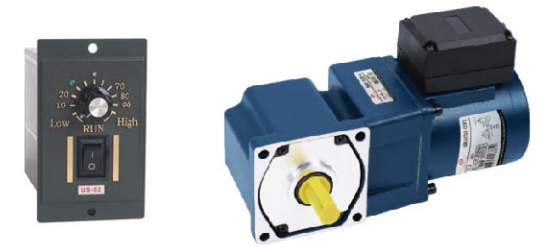
The selection for AC motor

4	GU	100	RC	K
外形尺寸 Overall Dimensions	出力軸種類 Type of output shaft	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
4:80mm 5:90mm 6:100mm 8:145mm	GN: 出力軸 ≤ φ12 GU: 出力軸 ≥ φ14		RC: 中空軸 RC: Hollow shaft RT: 中實軸 RT: In the real axis	K= 滾珠培林軸承 K= Ball Bearing



AC GEAR MOTOR

25 / 30W / 80MM
交流减速电机



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
4IK25GN-C 4IK25A-C	感應 Induction	25	單相 1-phase 220	50	0.22	231	2310	185	1850	1250	1.5/450
4RK25GN-C 4RK25A-C				可逆 Reversible	60	0.21	192	1920	154	1540	1550
4IK25GN-C 4RK25A-C	可逆 Reversible	25	單相 1-phase 220	50	0.24	231	2310	185	1850	1250	2/450
4IK25GN-A 4IK25A-A				感應 Induction	60	0.26	192	1920	154	1540	1550
4IK25GN-A 4IK25A-A	可逆 Reversible	25	單相 1-phase 110	50	0.48	231	2310	185	1850	1250	6/250
4RK25GN-A 4RK25A-A				感應 Induction	60	0.46	192	1920	154	1540	1550
4IK25GN-A 4RK25A-A	可逆 Reversible	25	單相 1-phase 110	50	0.50	231	2310	185	1850	1250	8/250
4IK25GN-U 4IK25A-U				感應 Induction	60	0.56	192	1920	154	1540	1550
4IK25GN-U 4IK25A-U	—	25	三相 3-phase 380	50	0.14	231	2310	185	1850	1250	—
4RK25GN-S 4RK25A-S				可逆 Reversible	60	0.12	192	1920	154	1540	1550
4IK25GN-S 4RK25A-S	—	25	三相 3-phase 220	50	0.24	231	2310	185	1850	1250	—
4IK30GN-C 4IK30A-C				可逆 Reversible	60	0.225	192	1920	154	1540	1550
4IK30GN-C 4IK30A-C	感應 Induction	30	單相 1-phase 220	50	0.28	275	2750	220	2200	1250	2.2/450
4RK30GN-C 4RK30A-C				可逆 Reversible	60	0.3	231	2310	185	1850	1550
4RK30GN-C 4RK30A-C	可逆 Reversible	30	單相 1-phase 220	50	0.3	275	2750	220	2200	1250	2.5/450
4IK30GN-A 4IK30A-A				感應 Induction	60	0.32	231	2310	185	1850	1550
4IK30GN-A 4IK30A-A	可逆 Reversible	30	單相 1-phase 110	50	0.58	275	2750	220	2200	1250	8/250
4RK30GN-A 4RK30A-A				感應 Induction	60	0.60	231	2310	185	1850	1550
4RK30GN-A 4RK30A-A	可逆 Reversible	30	單相 1-phase 110	50	0.60	275	2750	220	2200	1250	10/250
4IK30GN-A 4IK30A-A				感應 Induction	60	0.65	231	2310	185	1850	1550

- 上表參數是指電機單體，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/mn Synchronous speed	500	300	250	200	150	120	100	83	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5					
		減速比i ratio																											
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，可在電動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，并有堵轉情況存在時，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 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.

直角中實減速箱

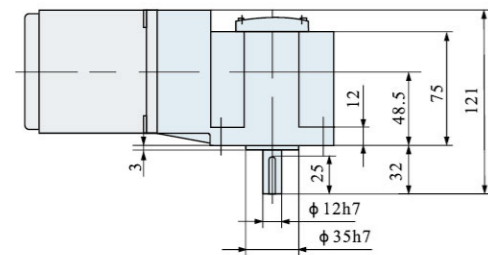
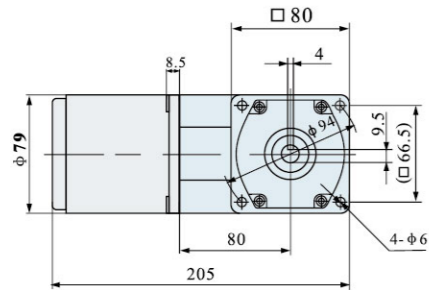
Right angle solid-shaft reduction gear box



型號:4GN □RT-K Model:4GN □RT-K
速比:1:10~1500 Gear ratio:1:10~1500

80型 CAD 尺寸
Model 80 CAD size

組合: 定速電機+直角中實減速箱
減速比: 1:10~1500
質量: 3.4kg
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 3.4kg



直角中空減速箱

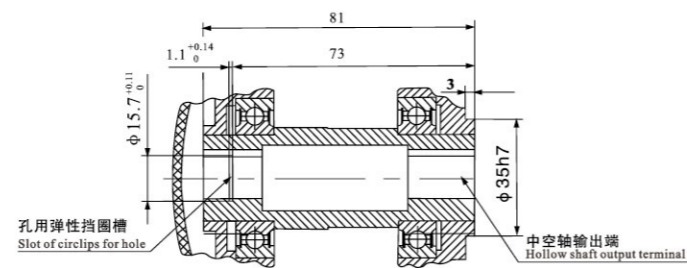
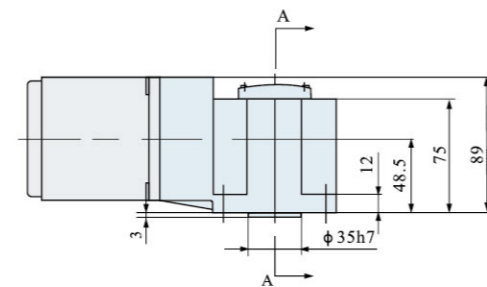
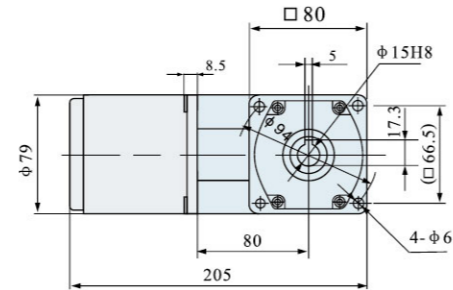
Right angle hollow-shaft reduction gear box



型號:4GN □RC-K Model:4GN □RC-K
速比:1:10~1500 Gear ratio:1:10~1500

80型 CAD 尺寸
Model 80 CAD size

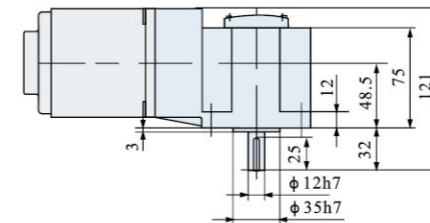
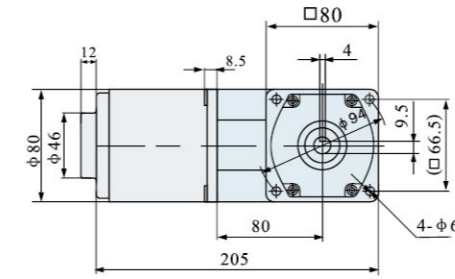
組合: 定速電機+直角中空減速箱
減速比: 1:10~1500
質量: 3.3kg
Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 3.3kg



A-A 旋轉
A-A rotation
2:1

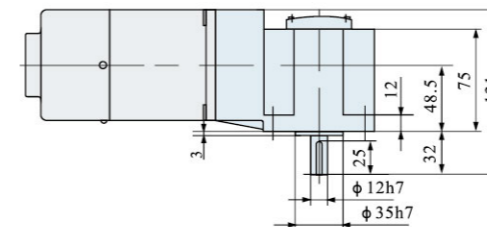
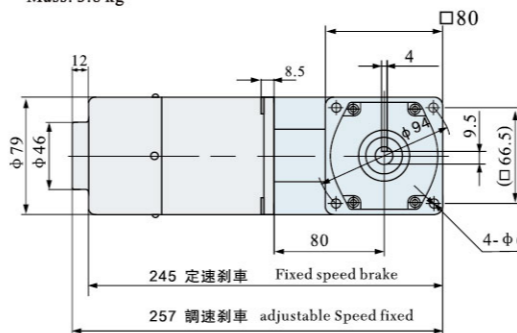
80型 CAD 尺寸
Model 80 CAD size

組合: 調速電機+直角中實減速箱
減速比: 1:10~1500
質量: 3.5kg
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 3.5kg



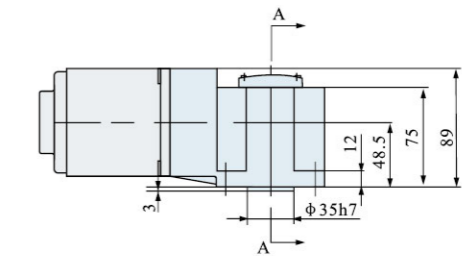
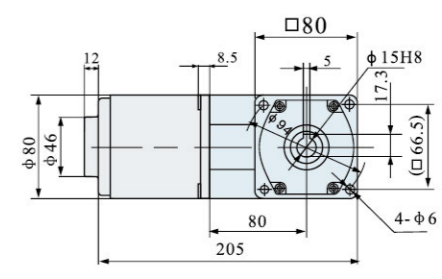
80型 CAD 尺寸
Model 80 CAD size

組合: 剎車定速/調速電機+直角中實減速箱
減速比: 1:10~1500
質量: 3.8kg
Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 3.8 kg



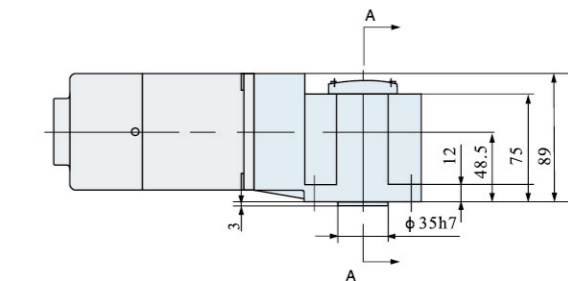
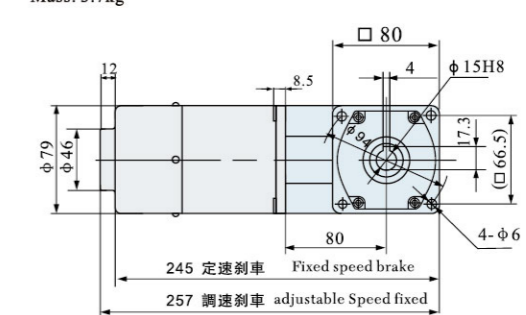
80型 CAD 尺寸
Model 80 CAD size

組合: 調速電機+直角中空減速箱
減速比: 1:10~1500
質量: 3.4kg
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 3.4kg



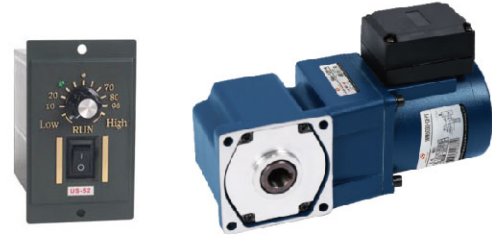
80型 CAD 尺寸
Model 80 CAD size

組合: 剎車定速/調速電機+直角中空減速箱
減速比: 1:10~1500
質量: 3.7kg
Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 3.7kg



AC GEAR MOTOR

40W / 90MM
交流减速电机



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
5IK40GN-C 5IK40A-C	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
				50	0.38	367	3670	294	2940	1300	3.0/450
				60	0.4	307	3070	246	2460	1550	3.0/450
5IK40GN-A 5IK40A-A	感應 Induction	40	單相 1-phase 110	50	0.70	367	3670	294	2940	1300	10/250
				60	0.72	307	3070	246	2460	1550	10/250
				50	0.76	367	3670	294	2940	1300	12/250
				60	0.80	307	3070	246	2460	1550	12/250
5IK40GN-U 5IK40A-U	—	40	三相 3-phase 380	50	0.24	367	3670	294	2940	1300	—
				60	0.22	307	3070	246	2460	1550	—
5RK40GN-S 5RK40A-S	—	40	三相 3-phase 220	50	0.42	367	3670	294	2940	1300	—
				60	0.38	307	3070	246	2460	1550	—

- 上表參數是指電機單體，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/mn Synchronous speed	減速比i 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											100
		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											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。實際轉速將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，可在電動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，并有堵轉情況存在時，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 gear box.

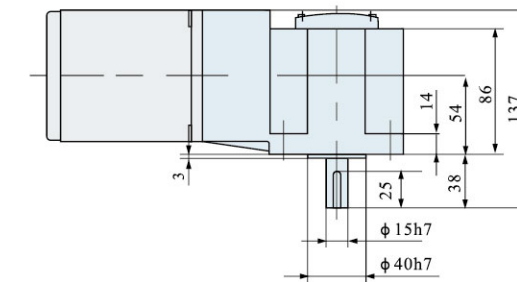
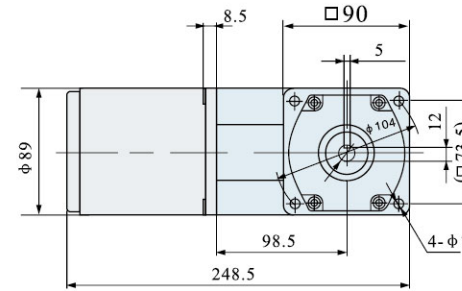
直角中實減速箱 Right angle solid-shaft reduction gear box



型号:5GU □ RT-K Model:5GU □ RT-K
速比:1:10~1500 Gear ratio:1:10~1500

90型 CAD 尺寸 Model 90 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：5.3kg
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.3kg



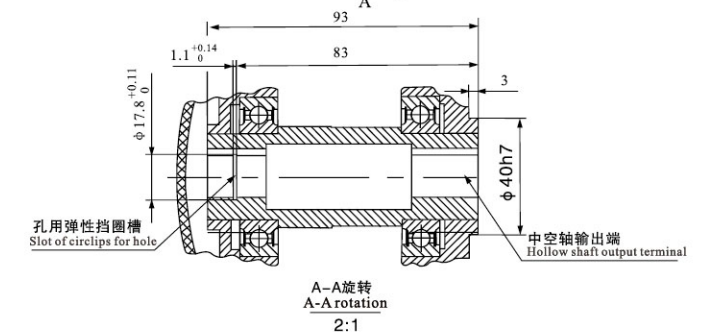
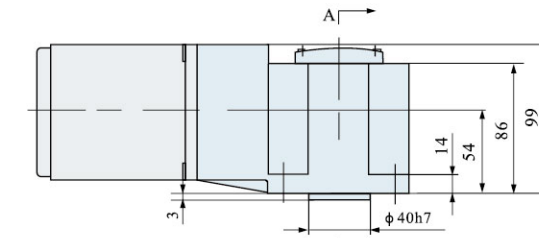
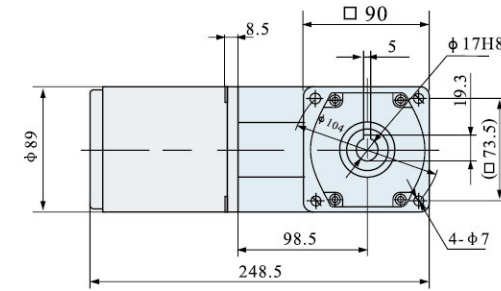
直角中空減速箱 Right angle hollow-shaft reduction gear box



型号:5GU □ RC-K Model:5GU □ RC-K
速比:1:10~1500 Gear ratio:1:10~1500

90型 CAD 尺寸 Model 90 CAD size

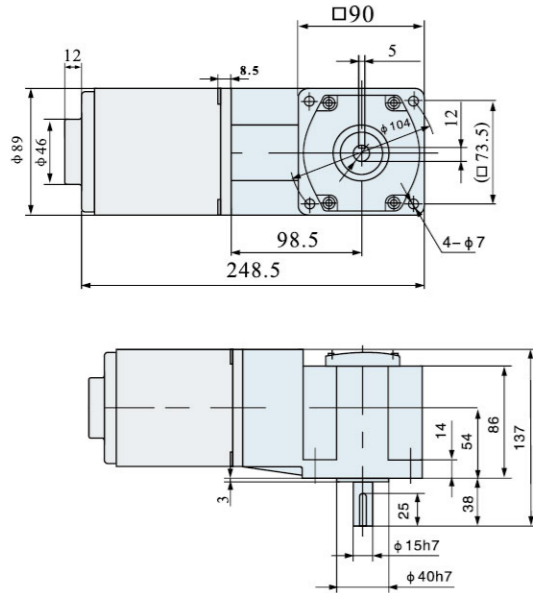
組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：5.2kg
Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.2kg



90型 CAD 尺寸
Model 90 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：5.4kg

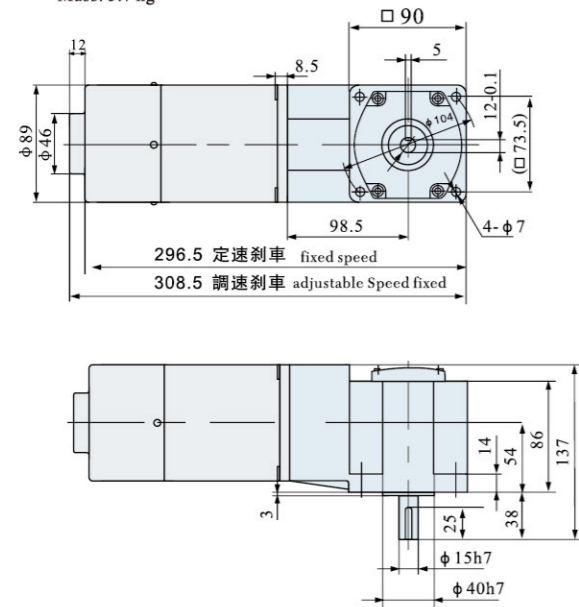
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.4kg



90型 CAD 尺寸
Model 90 CAD size

組合：剎車定速/調速電機+直角中實減速箱
減速比：1:10~1500
質量：5.7kg

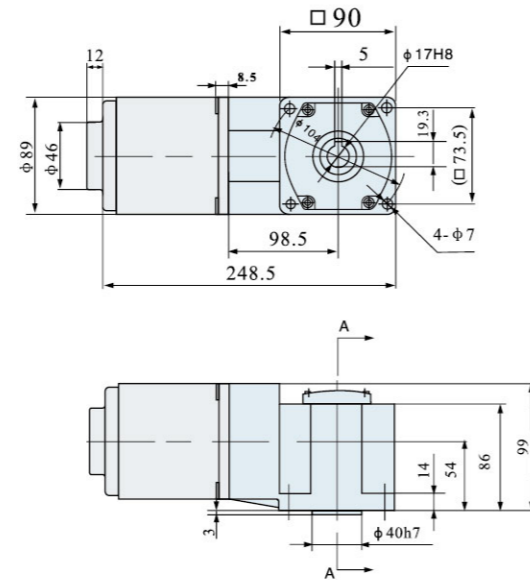
Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.7 kg



90型 CAD 尺寸
Model 90 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：5.3kg

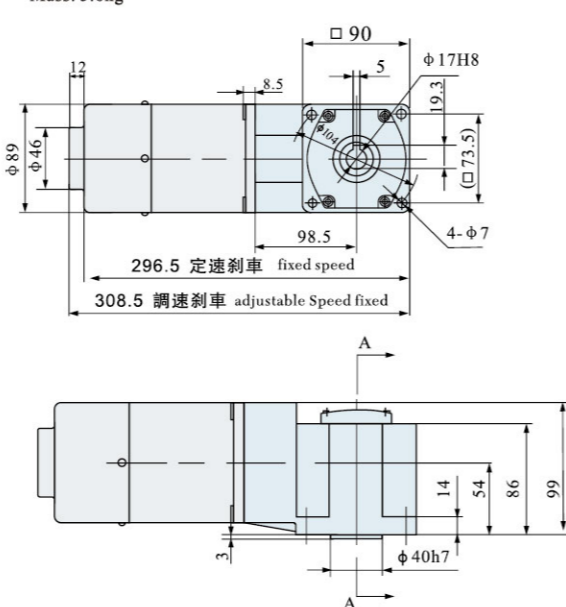
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.3kg



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
減速比：1:10~1500
質量：5.6kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.6kg



AC GEAR MOTOR

60W / 90MM
交流減速電機



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 μF/VAC		
5IK60GU-CF 5IK60A-CF	感應 Induction	60	單相 1-phase 220	50	0.45	551	5510	441	4410	1350	3.5/450
5RK60GU-CF 5RK60A-CF	可逆 Reversible			60	0.48	462	4620	370	3700	1550	3.5/450
5IK60GU-AF 5IK60A-AF	感應 Induction	60	單相 1-phase 110	50	0.5	837	8370	670	6700	1350	4/450
5RIK60GU-AF 5RK60A-AF	可逆 Reversible			60	0.52	692	6920	554	5540	1550	4/450
5IK60GU-UF 5IK60A-UF	—	60	三相 3-phase 380	50	0.90	551	5510	441	4410	1350	14/250
5RK60GU-SF 5RK60A-SF	—			60	0.88	462	4620	370	3700	1550	14/250
5IK60GU-UF 5IK60A-UF	—	60	三相 3-phase 220	50	1.0	837	8370	670	6700	1350	16/250
5RK60GU-SF 5RK60A-SF	—			60	1.2	692	6920	554	5540	1550	16/250

- 上表參數是指電機單體，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%.

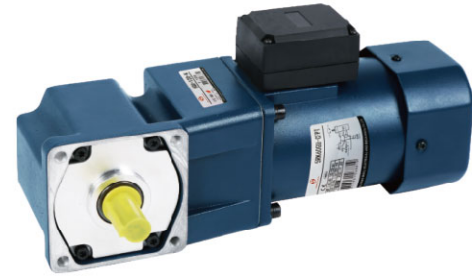
減速電機允許負載

Allowable load for the gear motor

減速參數 Geared-down parameter	同步轉速r/mn Synchronous speed	減速比i ratio																													
		500	375	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	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，可在電動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，并有堵轉情況存在時，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 gear box.

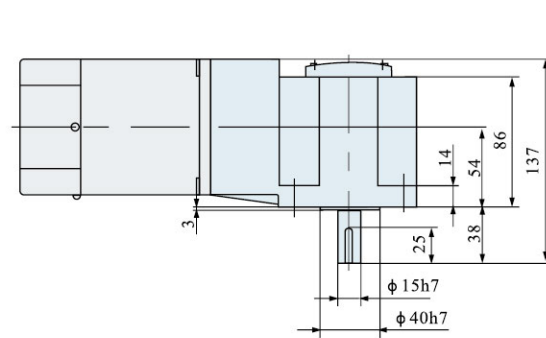
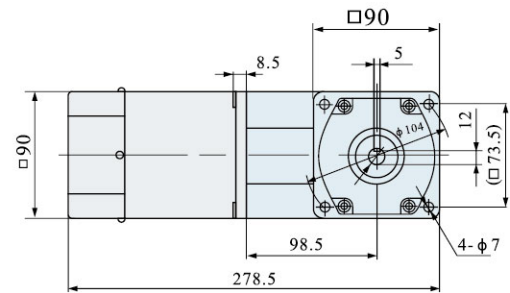
直角中實減速箱
Right angle solid-shaft reduction gear box



型号:5GU □RT-K Model:5GU □RT-K
速比:1:10~1500 Gear ratio:1:10~1500

90型 CAD 尺寸
Model 90 CAD size

組合: 定速電機+直角中實減速箱
減速比: 1:10~1500
質量: 5.4kg
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.4kg



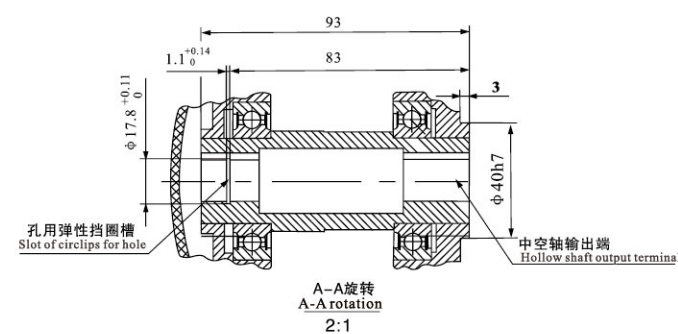
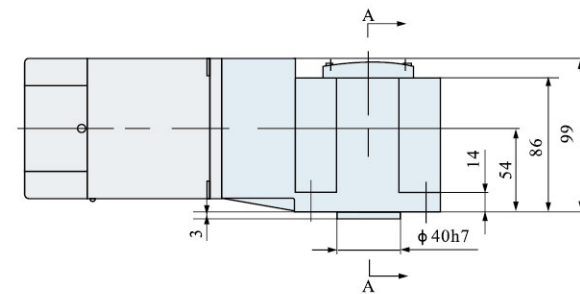
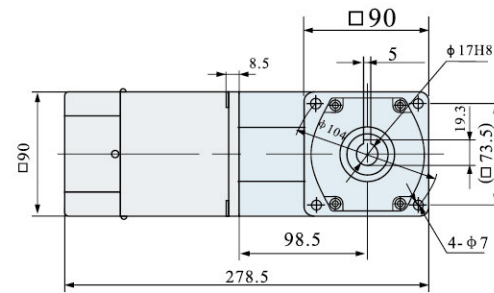
直角中空減速箱
Right angle hollow-shaft reduction gear box



型号:5GU □RC-K Model:5GU □RC-K
速比:1:10~1500 Gear ratio:1:10~1500

90型 CAD 尺寸
Model 90 CAD size

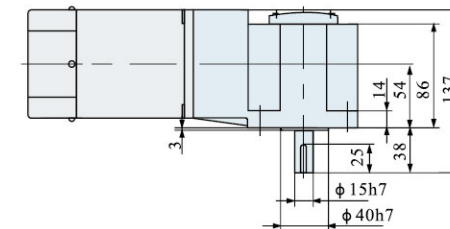
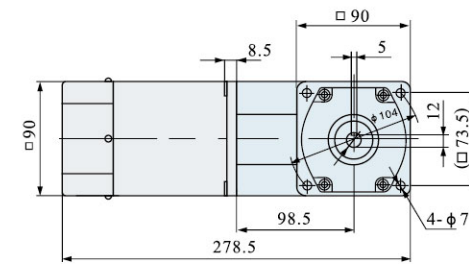
組合: 定速電機+直角中空減速箱
減速比: 1:10~1500
質量: 5.3kg
Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.3kg



90型 CAD 尺寸
Model 90 CAD size

組合: 調速電機+直角中實減速箱
減速比: 1:10~1500
質量: 5.5kg

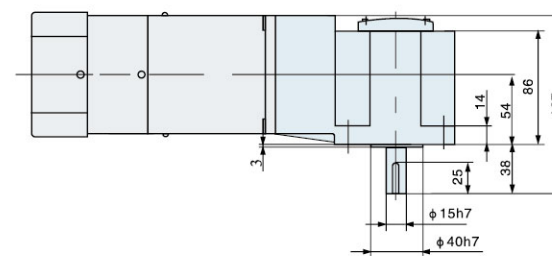
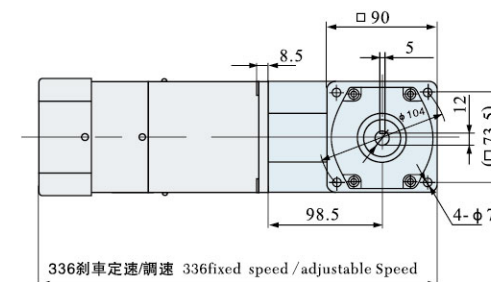
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.5kg



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
減速比: 1:10~1500
質量: 6.1kg

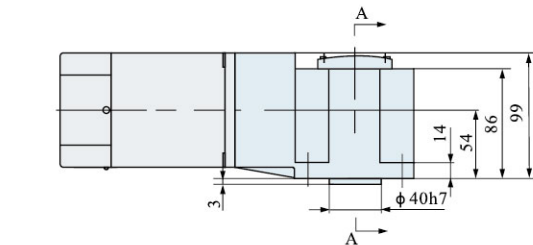
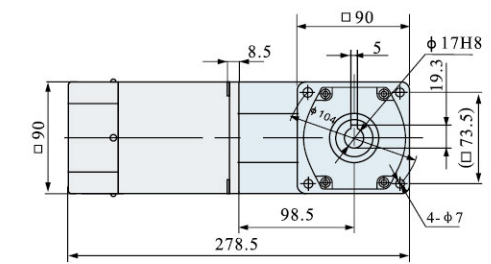
Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6.1 kg



90型 CAD 尺寸
Model 90 CAD size

組合: 調速電機+直角中空減速箱
減速比: 1:10~1500
質量: 5.4kg

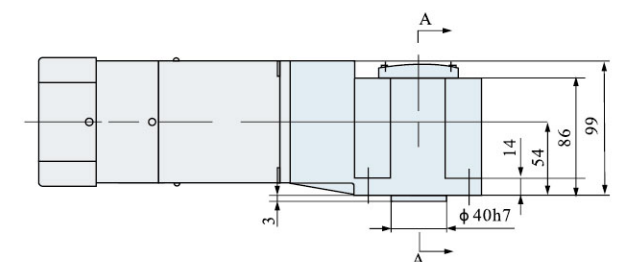
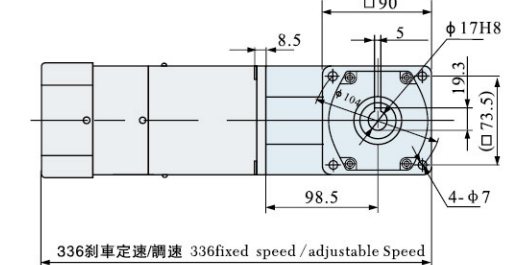
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.4kg



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
減速比: 1:10~1500
質量: 6kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6kg



AC GEAR MOTOR

90 / 120W / 90MM
交流减速电机



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
51K90GU-CF 51K90A-CF	感應 Induction	90	單相 1-phase 220	50	0.62	837	8370	670	6700	1350	5/450
				60	0.60	692	6920	554	5540	1550	5/450
5RK90GU-CF 5RK90A-CF	可逆 Reversible	90	單相 1-phase 220	50	0.68	837	8370	670	6700	1350	6/450
				60	0.72	692	6920	554	5540	1550	6/450
51K90GU-AF 51K90A-AF	感應 Induction	90	單相 1-phase 110	50	1.25	837	8370	670	6700	1350	20/250
				60	1.2	692	6920	554	5540	1550	18/250
5RK90GU-AF 5RK90A-AF	可逆 Reversible	90	單相 1-phase 110	50	1.38	837	8370	670	6700	1350	24/250
				60	1.5	692	6920	554	5540	1550	24/250
51K90GU-UF 51K90A-UF	—	90	三相 3-phase 380	50	0.32	837	8370	670	6700	1350	—
				60	0.3	692	6920	554	5540	1500	—
5RK90GU-SF 5RK90A-SF	—	90	三相 3-phase 220	50	0.55	837	8370	670	6700	1350	—
				60	0.48	692	6920	554	5540	1500	—
51K120GU-CF 51K120A-CF	感應 Induction	120	單相 1-phase 220	50	0.85	1137	11370	910	9100	1350	6/450
				60	0.82	955	9550	764	7640	1500	6/450
5RK120GU-CF 5RK120A-CF	可逆 Reversible	120	單相 1-phase 220	50	0.95	1137	11370	910	9100	1350	8/450
				60	1.0	955	9550	764	7640	1500	8/450
51K120GU-AF 51K120A-AF	感應 Induction	120	單相 1-phase 110	50	1.7	1137	11370	910	9100	1350	24/250
				60	1.65	955	9550	764	7640	1500	24/250
5RK120GU-AF 5RK120A-AF	可逆 Reversible	120	單相 1-phase 110	50	1.9	1137	11370	910	9100	1350	30/250
				60	2.1	955	9550	764	7640	1500	30/250
5RK120GU-UF 5RK120A-UF	—	120	三相 3-phase 380	50	0.34	1137	11370	910	9100	1350	—
				60	0.31	955	9550	764	7640	1500	—
5RK120GU-SF 5RK120A-SF	—	120	三相 3-phase 220	50	0.59	1137	11370	910	9100	1350	—
				60	0.54	955	9550	764	7640	1500	—

● 上表參數是指電機單體，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/mn Synchronous speed	減速比i ratio																						
		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
最大允許負載 Max allowable load	90W	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
120W	kg.cm 21.5	36	42	54	70	87.57	98	126	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，可在電動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，并有堵轉情況存在時，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.

直角中實減速箱

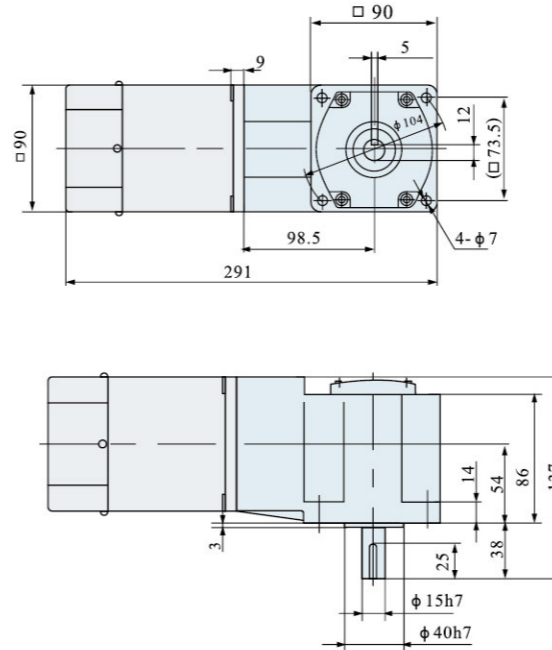
Right angle solid-shaft reduction gear box



型号: 5GU □ RT-K Model: 5GU □ RT-K
速比: 1:10~1500 Gear ratio: 1:10~1500

90型 CAD 尺寸 Model 90 CAD size

組合: 定速電機+直角中實減速箱
減速比: 1:10~1500
質量: 5.9kg
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.9kg



直角中空減速箱

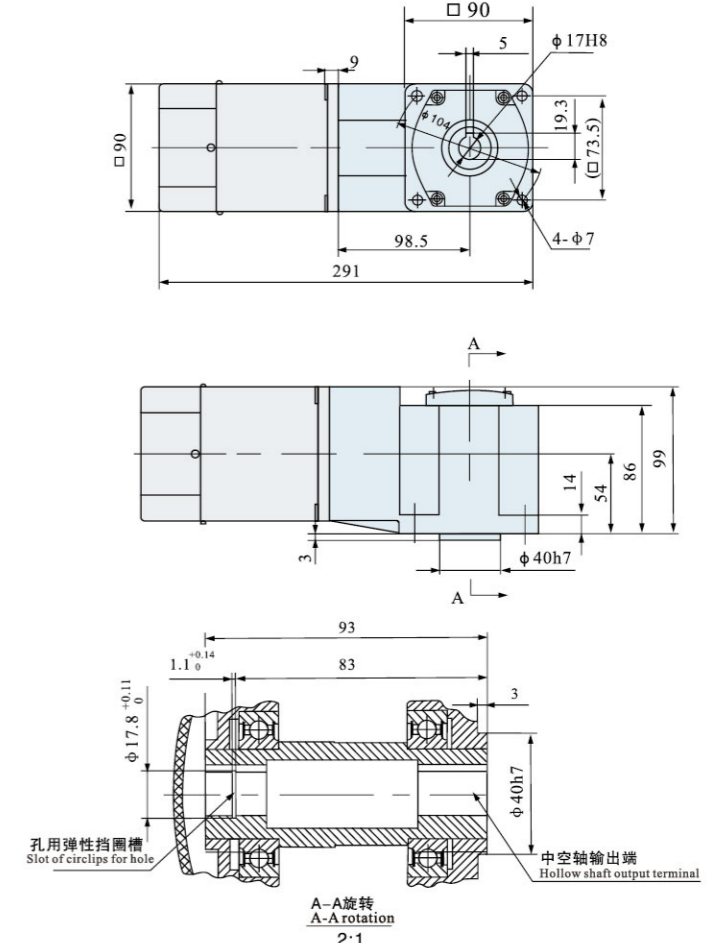
Right angle hollow-shaft reduction gear box



型号: 5GU □ RC-K Model: 5GU □ RC-K
速比: 1:10~1500 Gear ratio: 1:10~1500

90型 CAD 尺寸 Model 90 CAD size

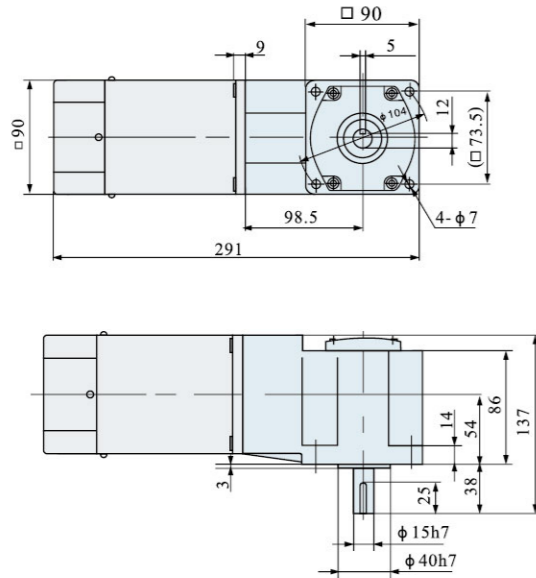
組合: 定速電機+直角中空減速箱
減速比: 1:10~1500
質量: 5.8kg
Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.8kg



90型 CAD 尺寸
Model 90 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：6kg

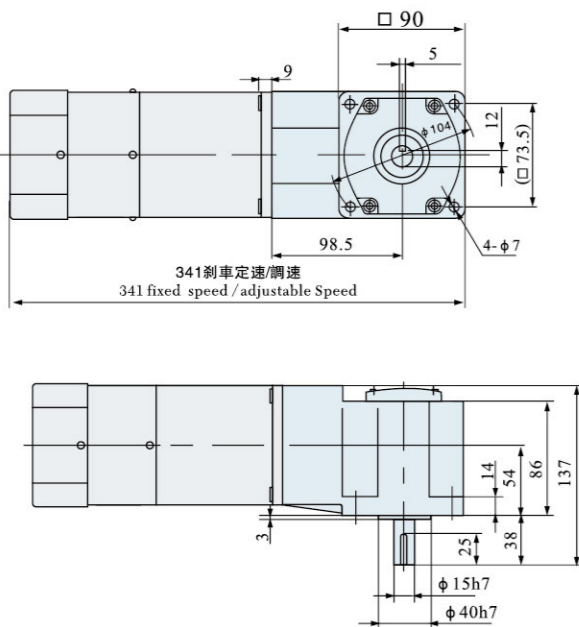
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 6kg



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
減速比：1:10~1500
質量：6.6kg

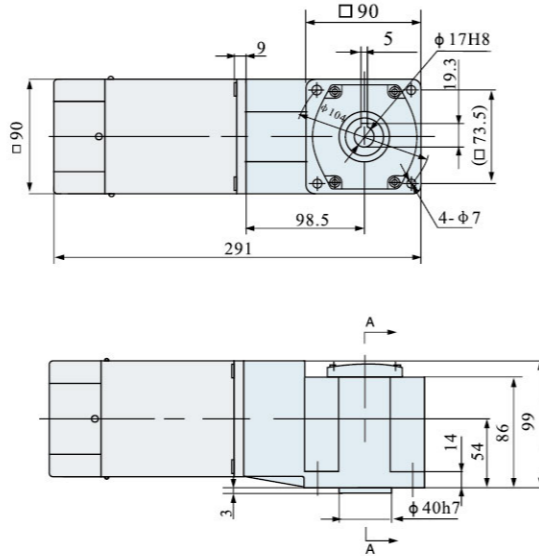
Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6.6 kg



90型 CAD 尺寸
Model 90 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：5.9kg

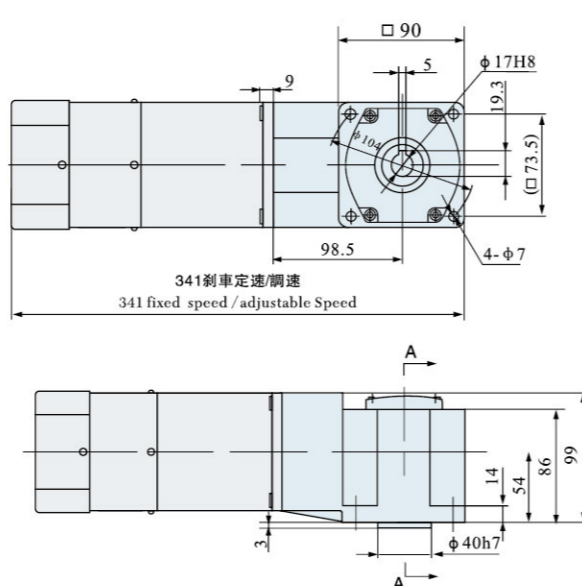
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.9kg



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
減速比：1:10~1500
質量：6.5kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6.5kg



AC GEAR MOTOR

120 / 140W / 100MM
交流減速電機



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	電容容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
6IK120GU-CF 6IK120A-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
6RK120GU-CF 6RK120A-CF	可逆 Reversible	120	單相 1-phase 110	50	1.2	1575	15750	1260	12600	1350	8/450
				60	1.4	1225	12250	980	9800	1550	8/450
6IK120GU-AF 6IK120A-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
6RK120GU-AF 6RK120A-AF	可逆 Reversible	120	單相 1-phase 110	50	1.8	1575	15750	1260	12600	1350	32/250
				60	2.0	1225	12250	980	9800	1550	32/250
6IK120GU-UF 6IK120A-UF	—	120	三相 3-phase 380	50	0.46	1100	11000	880	8800	1350	—
				60	0.42	925	9250	740	7400	1550	—
6RK120GU-SF 6RK120A-SF	—	120	三相 3-phase 220	50	0.8	1100	11000	880	8800	1350	—
				60	0.73	925	9250	740	7400	1550	—
6IK140GU-CF 6IK140A-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
6RK140GU-CF 6RK140A-CF	可逆 Reversible	140	單相 1-phase 220	50	1.3	1285	12850	1028	10280	1350	10/450
				60	1.43	1078	10780	863	8630	1550	10/450
6IK140GU-AF 6IK140A-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
6RK140GU-AF 6RK140A-AF	可逆 Reversible	140	單相 1-phase 110	50	2.2	1285	12850	1028	10280	1350	40/250
				60	2.4	1078	10780	863	8630	1550	32/250
6RK140GU-UF 6RK140A-UF	—	140	三相 3-phase 380	50	0.55	1285	12850	1028	10280	1350	—
				60	0.46	1078	10780	863	8630	1550	—
6RK140GU-SF 6RK140A-SF	—	140	三相 3-phase 220	50	0.88	1285	12850	1028	10280	1350	—
				60	0.80	1078	10780	863	8630	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/mn Synchronous speed	減速比i 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.cm N.m	21.5 2.11	36 3.52	54 5.28	69.8 6.85	85 8.45	103 10.2	125 12.3	139 13.6	172 16.9	209 20.5	226 22.4	251 24.6											315 31
	140W	kg.cm N.m	25.1 2.46	42 4.11	63 6.16	73.5 7.2	99.2 9.86	120 11.8	132 13	147 14.4	200.7 19.73	221 21.7	238 23.4	265 26											330 32.5

- 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，可在電動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，并有堵轉情況存在時，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.

AC GEAR MOTOR

370W / 100MM
交流减速电机



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	電容量/耐壓 Capacity/Ve μF/VAC
						mN.m	gf.cm	mN.m	gf.cm		
6IK370GU-CF 6IK370A-CF	感應 Induction	370	單相 1-phase 220	50	2.3	2944	29440	2560	25660	1350	15/450
6RK370GU-CF 6RK370A-CF	可逆 Reversible			60	2.1	2622	26220	2280	22880	1550	15/450
				50	2.3	2944	29440	2560	25660	1350	15/450
6IK370GU-AF 6IK370A-AF	感應 Induction			60	2.1	2622	26220	2280	22880	1550	15/450
		50	3.0	2944	29440	2560	25660	1350	32/250		
6RK370GU-AF 6RK370A-AF	可逆 Reversible	370	單相 1-phase 110	60	2.8	2622	26220	2280	22880	1550	30/250
				50	3.0	2944	29440	2560	25660	1350	40/250
6IK370GU-UF 6IK370A-UF	—			60	2.8	2622	26220	2280	22880	1550	36/250
				50	1.4	3018	30180	2624	26240	1350	—
6RK370GU-SF 6RK370A-SF	—	370	三相 3-phase 380	60	1.2	2680	26800	2330	23300	1550	—
				50	2.5	3018	30180	2624	26240	1350	—
6RK370GU-SF 6RK370A-SF	—			60	2.0	2680	26800	2330	23300	1550	—

- 上表參數是指電機單體，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/mn Synchronous speed	500 300 200 150 120 100 85 75 60 50 40 37 30 25 20 15 12 10 8																			
		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	
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

- 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，可在電動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，并有堵轉情況存在時，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.

直角中實減速箱

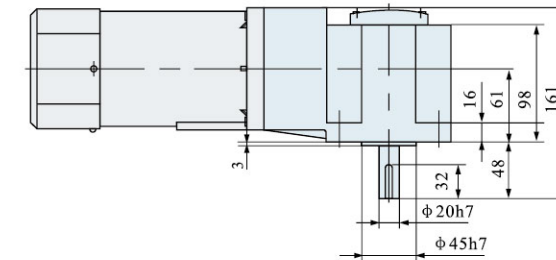
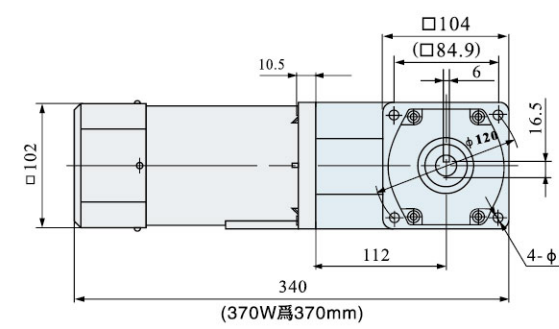
Right angle solid-shaft reduction gear box



型号: 6GU □RT-K Model: 6GU □ RT-K
速比: 1:10~1500 Gear ratio: 1:10~1500

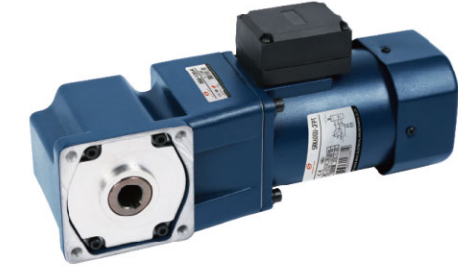
100型 CAD 尺寸 Model 100 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：8.8kg
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.8kg



直角中空減速箱

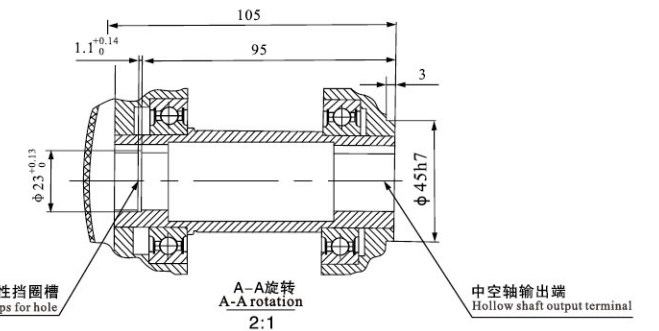
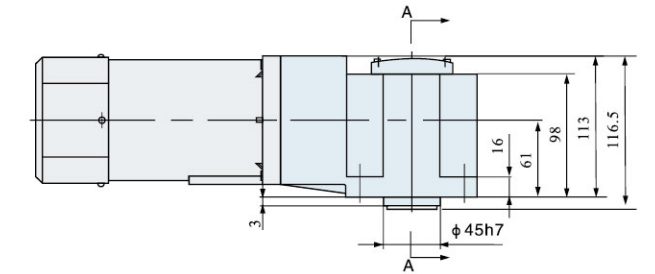
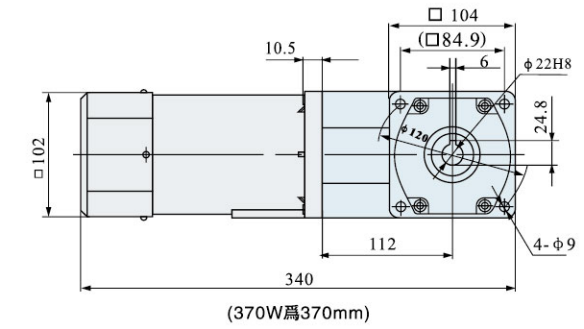
Right angle hollow-shaft reduction gear box



型号: 6GU □RC-K Model: 6GU □ RC-K
速比: 1:10~1500 Gear ratio: 1:10~1500

100型 CAD 尺寸 Model 100 CAD size

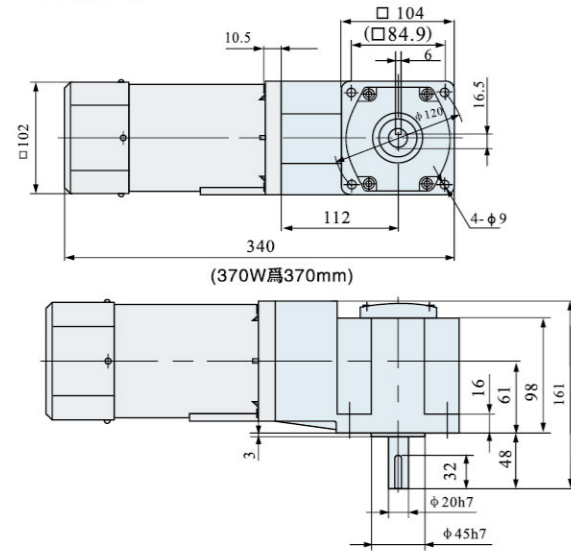
組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：8.7kg
Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.7kg



100型 CAD 尺寸
Model 100 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：8.9kg

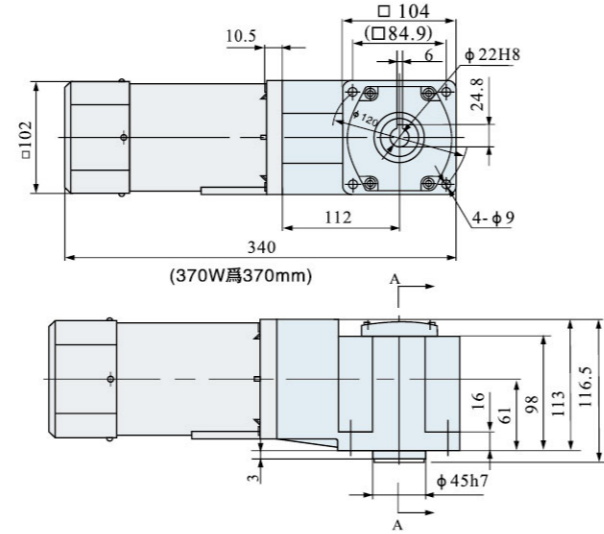
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.9kg



100型 CAD 尺寸
Model 100 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：8.8kg

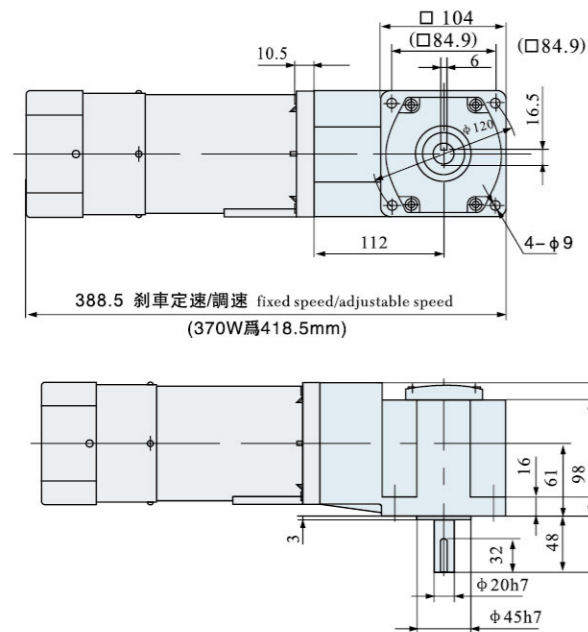
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 8.8kg



100型 CAD 尺寸
Model 100 CAD size

組合：剎車定速/調速電機+直角中實減速箱
減速比：1:10~1500
質量：9.5kg

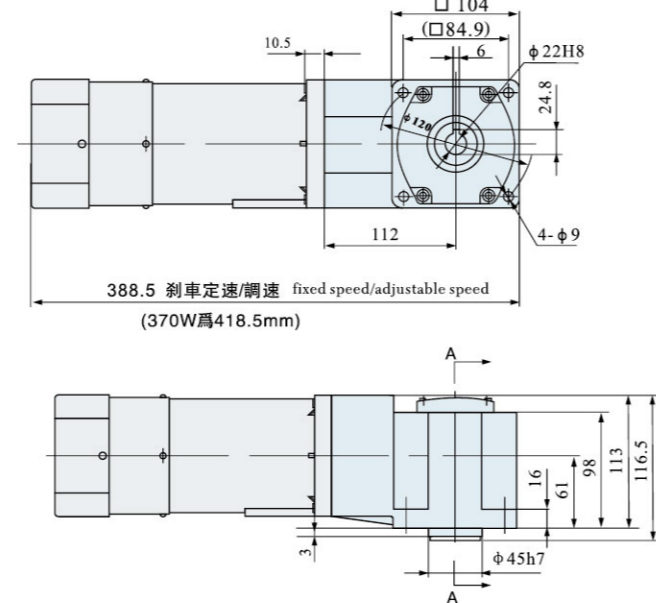
Combination: fixed speed / adjustable speed brake motor + right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 9.5 kg



100型 CAD 尺寸
Model 100 CAD size

組合：剎車定速/調速電機+直角中空減速箱
減速比：1:10~1500
質量：9.4kg

Combination: fixed speed / adjustable speed brake motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 9.4kg



直角中實減速箱
Right angle solid-shaft reduction gear box



型号:6GU □RT-K Model:6GU □RT-K
速比:1:10~1500 Gear ratio:1:10~1500

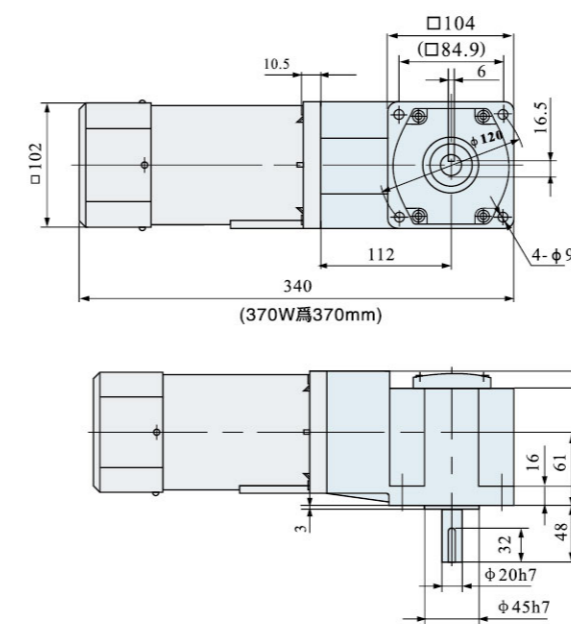
直角中空減速箱
Right angle hollow-shaft reduction gear box



型号:6GU □RC-K Model:6GU □RC-K
速比:1:10~1500 Gear ratio:1:10~1500

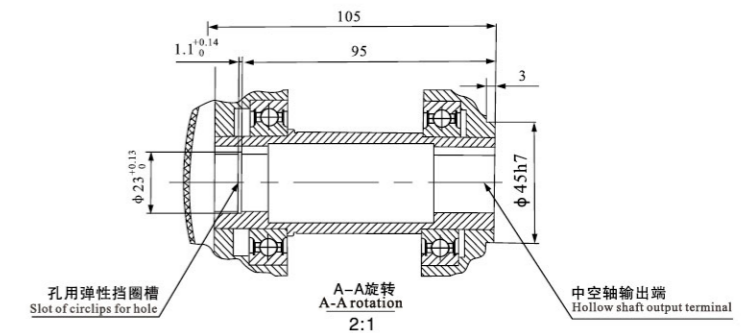
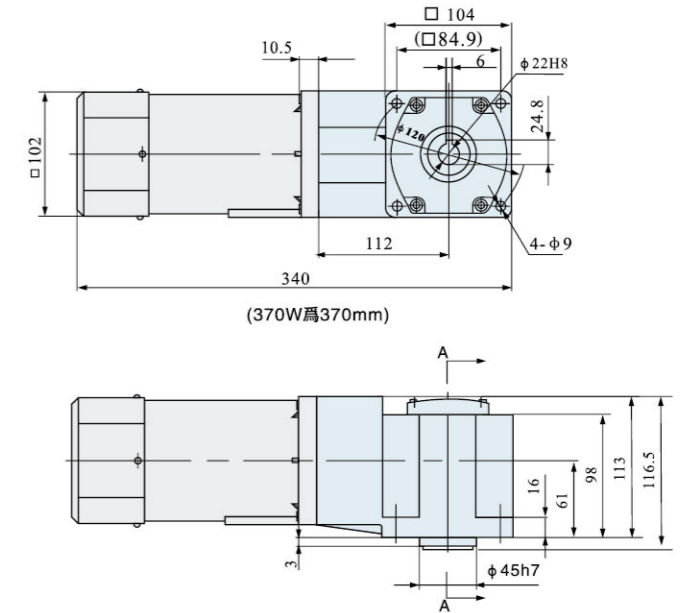
100型 CAD 尺寸
Model 100 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：8.8kg
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.8kg



100型 CAD 尺寸
Model 100 CAD size

組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：8.7kg
Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.7kg



AC GEAR MOTOR

400W / 145MM

交流减速电机



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
公司型號 JWD types						mN.m	gf.cm	mN.m	gf.cm	
8IK400GU-UF	感應 Induction	400	三相 3-phase 380	50	1.3	6100	61000	2800	28000	1410
8IK400GU-SF			三相 3-phase 220	60	2.25	6100	61000	2800	28000	1700

- 上表參數是指電機單體，不附加任何負荷裝置。
- 參數在以上表格中，參數均指電機單獨，不帶任何負載。
- 電機額定轉速、額定電流允許在±5%範圍內變動。
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

轉直角中實/中空減速箱

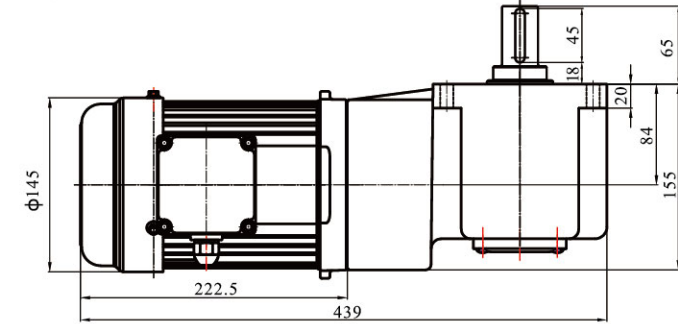
減速比	5	6	7.5	10	12.5	15	20	25	30	36	50	60	75	80	90	100	120	150	180	200
50Hz轉速 r/min	280	233	187	140	112	93.3	70	56	46.7	38.9	28	23.3	18.7	15.6	14	11.7	9.3	7.7	7	7
額定轉矩 N·m	13.8	16.6	20.7	27.7	34.7	41.6	55.5	69.2	83.2	99.7	138.3	166.4	207.5	221	248.6	250	250	250	250	250

- 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，可在電動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機最大允許負載扭矩，并有堵轉情況存在時，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.

直角中實減速箱

Right angle solid-shaft reduction gear box

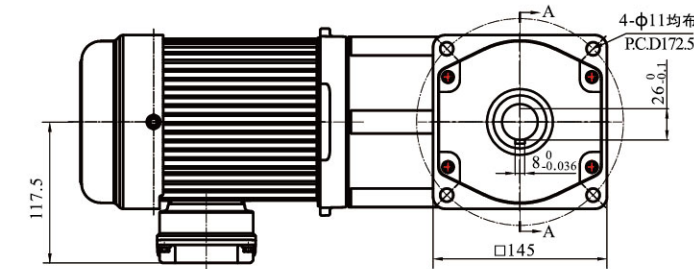
型號:8GU □RT-K Model:8GU □RT-K
速比:1:5~200 Gear ratio:1:5~200



145型 CAD 尺寸 Model 145 CAD size

組合: 定速電機+直角中實減速箱
減速比: 1:5~200
質量: 8.8kg

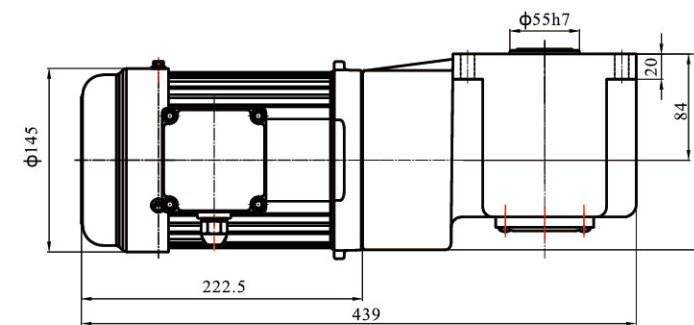
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:5~200
Mass: 8.8kg



直角中空減速箱

Right angle hollow-shaft reduction gear box

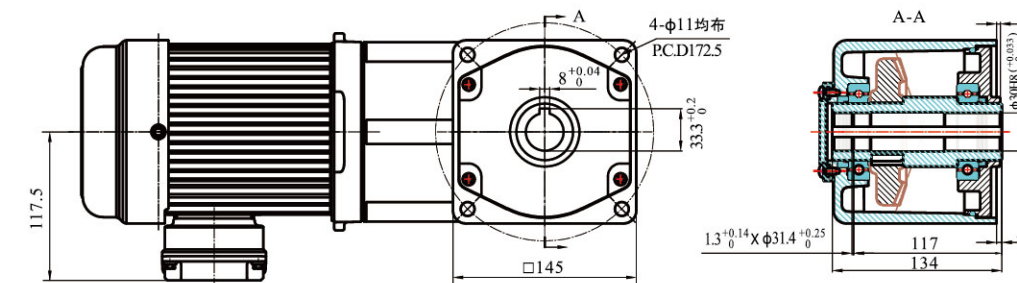
型號:8GU □RC-K Model:8GU □RC-K
速比:1:5~200 Gear ratio:1:5~200



145型 CAD 尺寸 Model 145 CAD size

組合: 定速電機+直角中空減速箱
減速比: 1:5~200
質量: 8.7kg

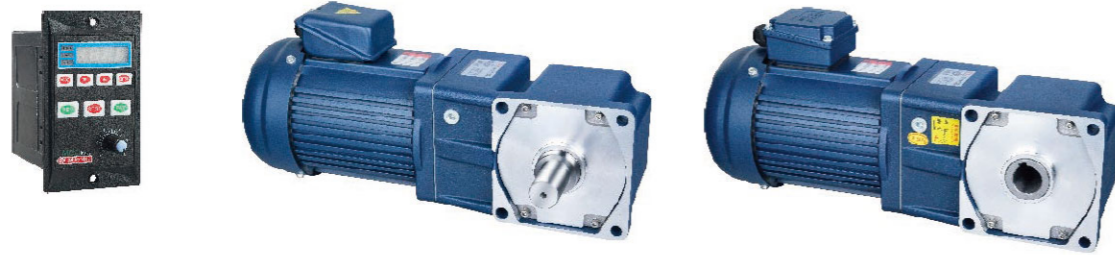
Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:5~200
Mass: 8.7kg



AC GEAR MOTOR

750W / 145MM

交流减速电机



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
						mN.m	gf.cm	mN.m	gf.cm	
8IK750GU-UF	感應 Induction	750	三相 3-phase 380	50	2.15	1190	11900	5400	54000	1420
8IK750GU-SF			三相 3-phase 220	60	3.72	1190	11900	5400	54000	1700

- 上表參數是指電機單體，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%.

轉直角中實/中空減速箱

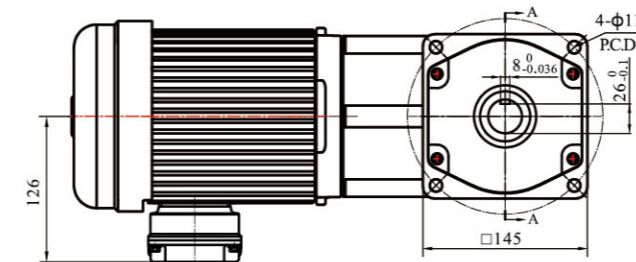
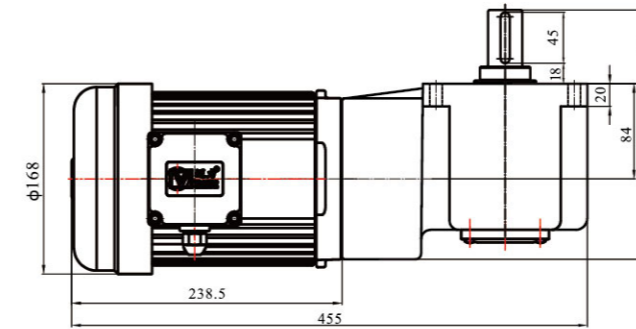
減速比	5	6	7.5	10	12.5	15	20	25	30	36	50	60	75	80	90	100	120	150	180	200
50Hz轉速 r/min	280	233	187	140	112	93.3	70	56	46.7	38.9	28	23.3	18.7	17.5	15.6	14	11.7	9.3	7.7	7
額定轉矩 N·m	25.7	30.8	38.5	51.3	64.1	77.0	103	128	154	185	250	250	250	250	250	250	250	250	250	250

- 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，可在電動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，并有堵轉情況存在時，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 gear box.

直角中實減速箱

Right angle solid-shaft reduction gear box

型號:8GU □RT-K Model:8GU □RT-K
速比:1:5~200 Gear ratio:1:5~200



145型 CAD 尺寸 Model 145 CAD size

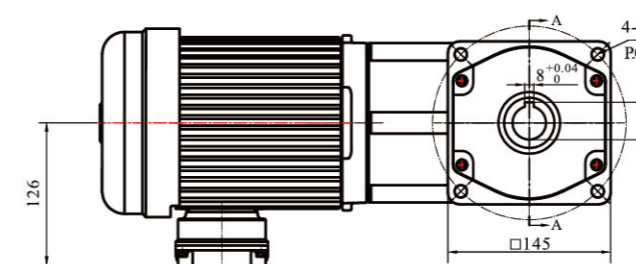
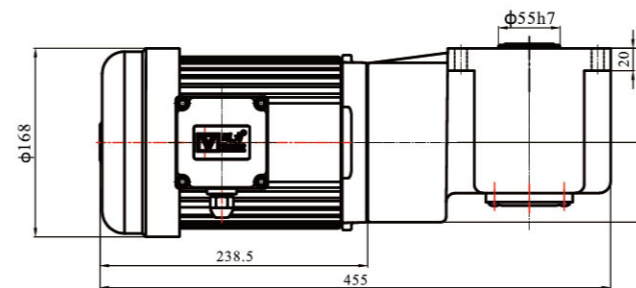
組合: 定速電機+直角中實減速箱
減速比: 1:5~200
質量: 8.8kg

Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:5~200
Mass: 8.8kg

直角中空減速箱

Right angle hollow-shaft reduction gear box

型號:8GU □RC-K Model:8GU □RC-K
速比:1:5~200 Gear ratio:1:5~200



145型 CAD 尺寸 Model 145 CAD size

組合: 定速電機+直角中空減速箱
減速比: 1:5~200
質量: 8.7kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:5~200
Mass: 8.7kg

AC GEAR MOTOR

1500W / 145MM

交流减速电机



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
						mN.m	gf.cm	mN.m	gf.cm	
8IK1500GU-UF	感應 Induction	1500	三相 3-phase 380	50	3.85	23500	235000	10700	107000	1430
8IK1500GU-SF			三相 3-phase 220	60	6.65	23500	235000	10700	107000	1700

- 上表參數是指電機單體，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%.

轉直角中實/中空減速箱

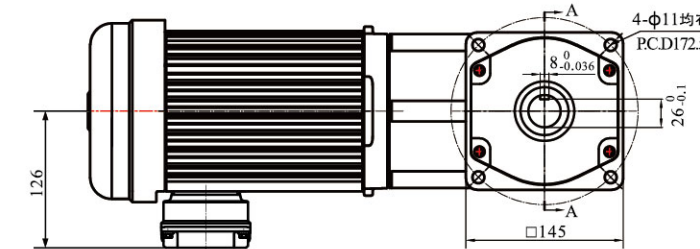
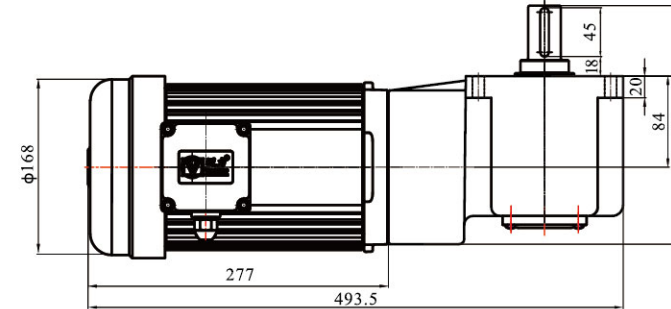
減速比	5	6	7.5	10	12.5	15	20	25	30	36	50	60	75	80	90	100	120	150	180	200
50Hz轉速 r/min	280	233	187	140	112	93.3	70	56	46.7	38.9	28	23.3	18.7	17.5	15.6	14	11.7	9.3	7.7	7
額定轉矩 N·m	50.8	61.0	76.2	102	127	152	200	250	250	250	250	250	250	250	250	250	250	250	250	250

- 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，可在電動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，并有堵轉情況存在時，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.

直角中實減速箱

Right angle solid-shaft reduction gear box

型號:8GU □RT-K Model:8GU □RT-K
速比:1:5~200 Gear ratio:1:5~200



145型 CAD 尺寸

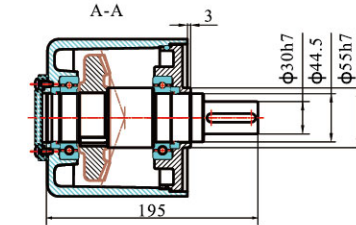
Model 145 CAD size

組合: 定速電機+直角中實減速箱

減速比: 1:5~200

質量: 8.8kg

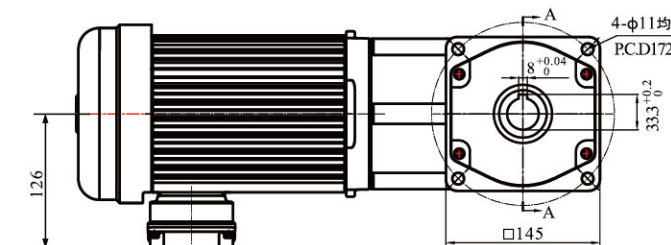
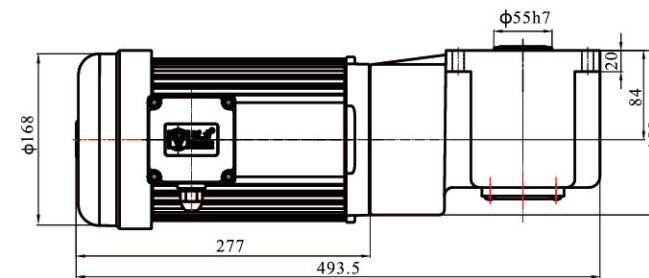
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:5~200
Mass: 8.8kg



直角中空減速箱

Right angle hollow-shaft reduction gear box

型號:8GU □RC-K Model:8GU □RC-K
速比:1:5~200 Gear ratio:1:5~200



145型 CAD 尺寸

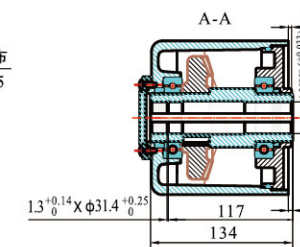
Model 145 CAD size

組合: 定速電機+直角中空減速箱

減速比: 1:5~200

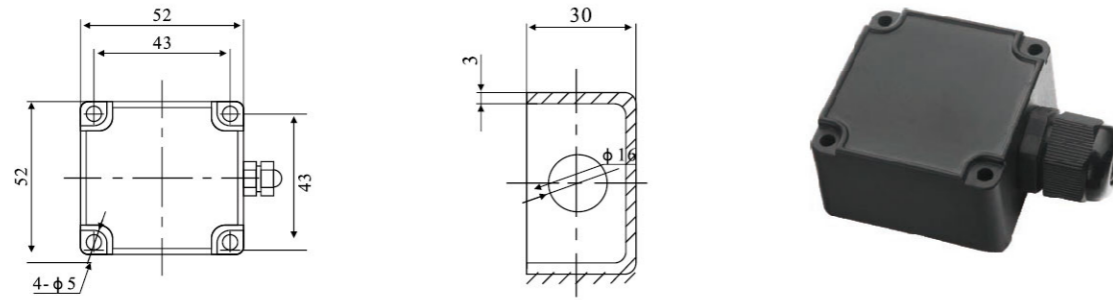
質量: 8.7kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:5~200
Mass: 8.7kg

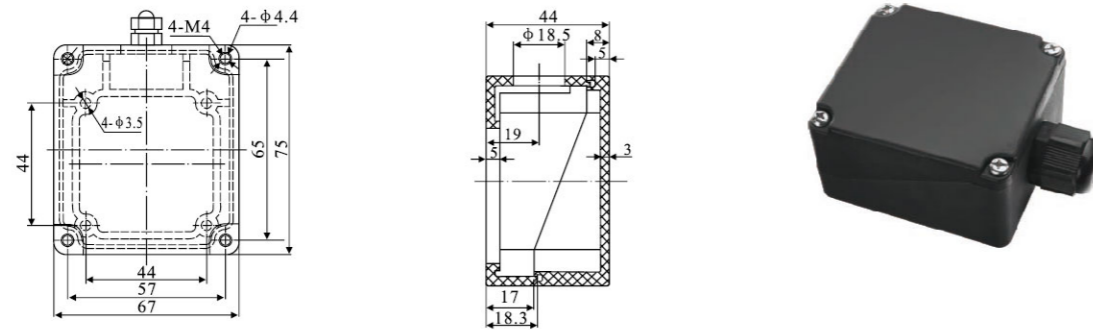


接線盒種類
Type of terminal box

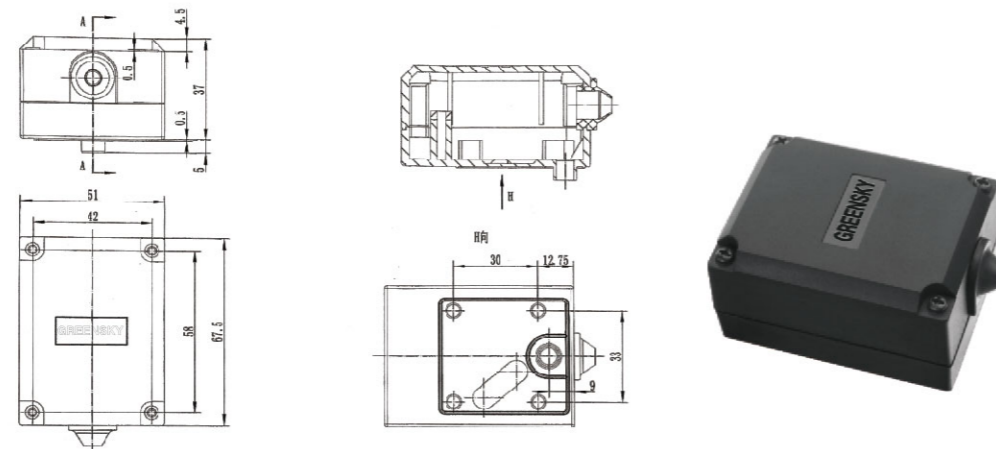
防水接線盒 Waterproof terminal box



SX型接線盒 SX type terminal box



GS接線盒 GS terminal box



微特馬達配線盒方向選定
Micro motor wiring box direction selected

TYPE	G1-左方向 LEFT SIDE	G2-右方向 RIGHT SIDE	G3-上方向 UPPER SIDE	G4-下方向 LOWER SIDE
平行軸 Parallel axis				
	G1	G2	G3	G4
直交軸 Orthogonal axis				
	G1	G2	G3	G4

入線口方向
Wire inlet direction

(左下) Left lower	(左上) Top left	(右下) Right lower	(右上) Upper right	(上左) On the left	(上右) On the right	(下左) Under the left	(下右) lower right
LD	LT	RD	RT	TL	TR	DL	DR
(左前) Left front	(左後) Left back	(右前) Right front	(右後) right back	(上前) left front	(上後) left back	(下前) lower front	(下後) lower back
LF	LB	RF	RB	TF	TB	DF	DB

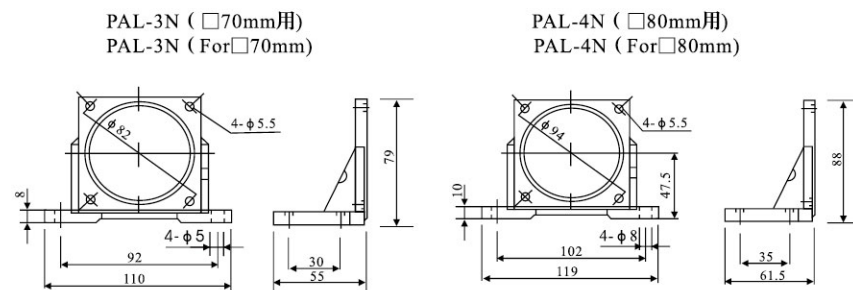
二極電機
Two-pole motor

電機性能參數 Motor performance parameter

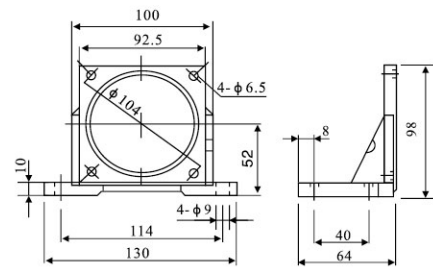
機種 Kinds	出力 Output Force (W)	電壓 Voltage (V)	頻率 Frequency (Hz)	極數 Poles (P)	額定轉速 Rated Revolution (rpm)	起動轉矩 Starting Torque (Kg.cm)	額定轉矩 Rated Torque (Kg.cm)	額定電流 Rated Current (A)	電容量 Electric Capacity (μF)	額定時間 Rated Time
41K25A-D	25	1 φ 220	50	2	2800	1.1	0.85	0.25	2.5/450	連續 Continuous
51K40A-D	40	1 φ 220	50	2	2800	1.5	1.39	0.28	3.0/450	連續 Continuous
51K60A-DF	60	1 φ 220	50	2	2800	1.9	2.1	0.49	4.0/450	連續 Continuous
51K90A-DF	90	1 φ 220	50	2	2800	4.2	2.95	0.94	8.0/450	連續 Continuous
51K90A-EF	90	3 φ 220/380	50	2	2800	10.8	3.13	0.28	—	連續 Continuous
51K120A-DF	120	1 φ 220	50	2	2800	4.0	3.13	0.82	8.0/450	連續 Continuous

特殊配件 Special accessories

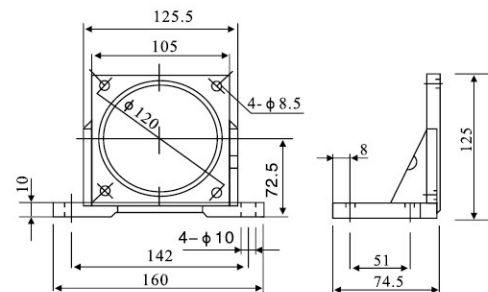
馬達安裝用L型腳座 L shape foot seat installed for motor



PAL-5N (□90mm用)
PAL-5N (For□90mm)



PAL-6N (□104mm用)
PAL-6N (For□104mm)



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

為額外銷售品
Additional sale product

買控制器時，附有0.5m的延長綫。如需要加延長時，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.

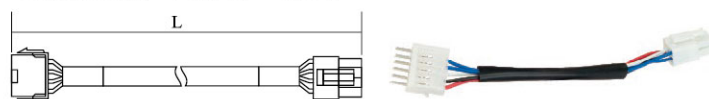
延長綫的長度和產品名稱，請參照圖。
The length of prolonging line and the name of the product, please refer to the following figure

產品名稱

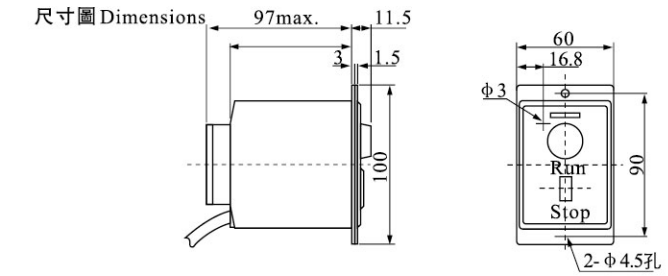
The name of the product

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

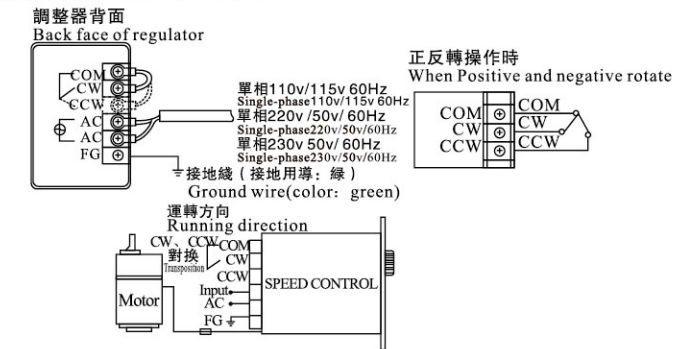
DIMENSION 單位: m Unit: m



US-52 速度控制器
US-52 Speed controller



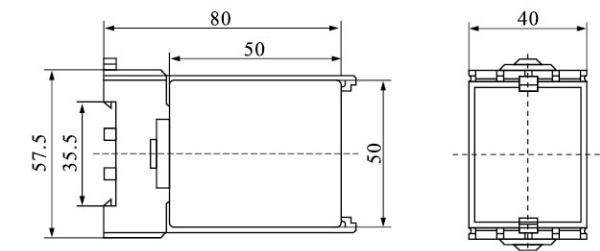
控制器接綫圖
Connection diagrams of the controller



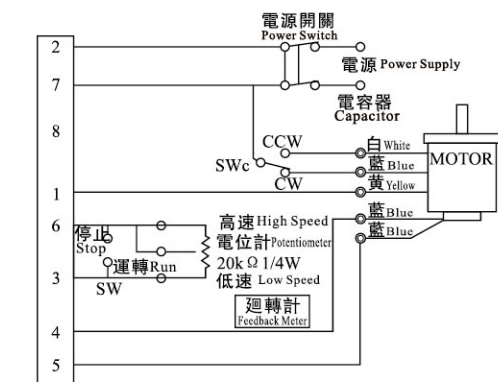
SS-22 速度控制器
SS-22 Speed controller



尺寸圖 Dimensions



控制器接綫圖
Connection diagrams of the controller



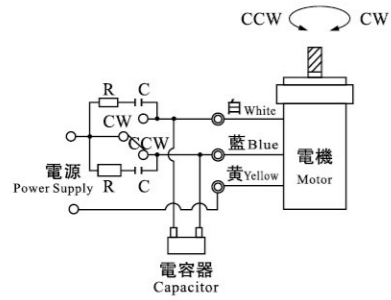
注：以上“接綫圖”僅供參考
Note: "Connection diagrams" is for reference only.

接線方式

Wiring method

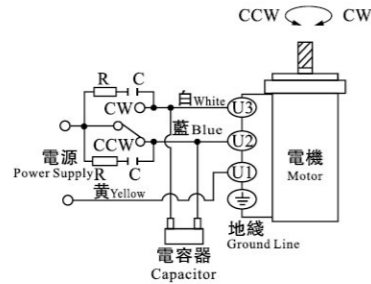
單相電機接線圖

Single-phase motor wiring diagram



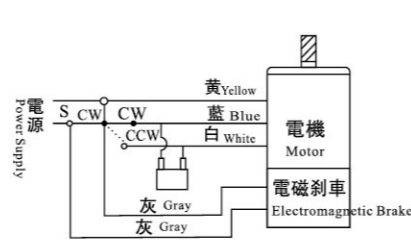
單相配端子箱電機接線圖

Single-phase motor with terminal box wiring diagram



單相制馬達接線圖

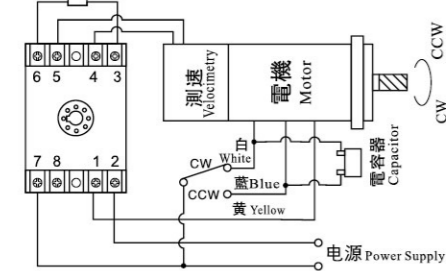
Single-phase brake motor wiring diagram



調速電機配SS速度控制器

Speed regulating motor with SS speed controller

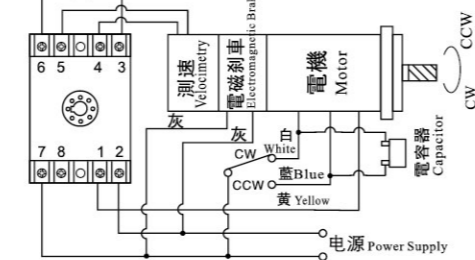
W5.6K 电位器



制車帶調速電機配SS速度控制器

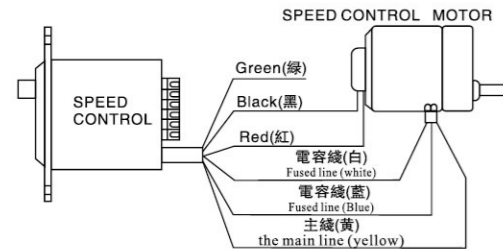
Brake band speed regulating motor with SS speed controller

W5.6K 电位器



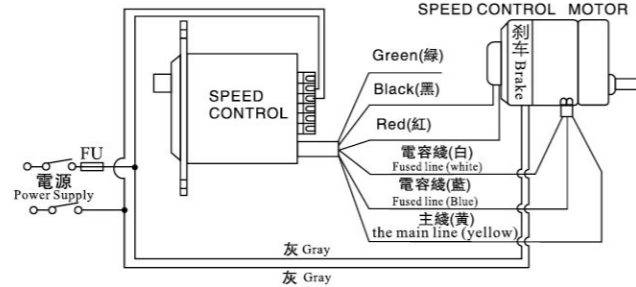
調速電機配US速度控制器

Speed regulating motor with US speed controller



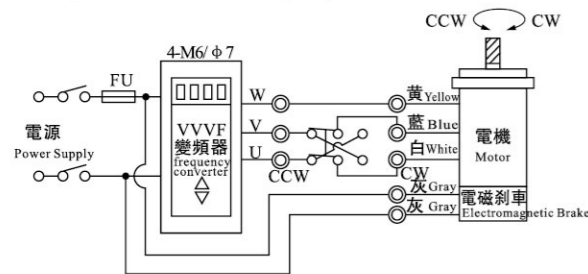
制車帶調速電機配US速度控制器

Brake band speed regulating motor with US speed controller



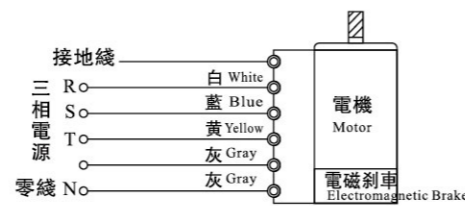
三相制馬達配變頻器

Three-phase brake motor with frequency converter



三相制馬達接線圖

Three-phase 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=5~330Ω C=0.1~0.22 F 250VAC(450VAC))

機型代號 Model code	出力軸直徑 Output shaft dia	馬力 Horsepower	減速比 Speed reducing ration	電壓極速 Top speed of voltage	附件 Accessory	入綫口方向 WIRE INLET
CH: 卧式 CH: horizontal	18	100W	1:3...1:1800	A=1 φ 110V4P	B: DC90V安全制車器 BRAKE UNIT YB: 手釋放制車器 WITH RELEASE BRAKE UNIT D: DC24V送電制車器 DC24V BRAKE	T: 向上 TOP
CV: 立式 CV: vertical	22	200W		S=3 φ 220V4P		D: 向下 DOWN
	28	400W		U=3 φ 380V4P		
	32	550W		W=3 φ 440V4P		
	40	1100W		Y=3 φ 220~240/ 380~440V4P		
	40	2200W		Z= 縮框型減速電機 light type duty		
	50	3700W				



配綫盒方向選定
(TERMINAL BOX DIRECTION)

TYPE	G1-左方向 LEFT SIDE	G2-右方向 RIGHT SIDE	G3-上方向 UPPER SIDE	G4-下方向 LOWER SIDE
CH型 CH TYPE				
	G1	G2	G3	G4
CV型 CV TYPE				
	G1	G2	G3	G4

入綫口方向
(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 VENTLATION INSTALLATION)

CH 機型 安裝 範例 INSTALLATION EXAMPLES			
	HO標準STANDARD(CPG正立CPG STAND)	H3(左側LEFT SIDE)	H6(倒裝INVERT)
	H9(右側RIGHT SIDE)	HU(軸向上SHAFT UP)	HD(軸向下SHAFT DOWN)
CH 機型 安裝 範例 INSTALLATION EXAMPLES			
	VO標準STANDARD(CPG正立CPG STAND)	V3(CPG旋轉90° CPG CLOCKWISE 90°)	V6(CPG旋轉180° CPG CLOCKWISE 180°)
	V9(CPG逆轉90° CPG LEFT TURN 90°)	VU(軸向上SHAFT UP)	VD(軸向下SHAFT DOWN)



0.1KW

CH型卧式三相鋁殼(剎車)馬達減速機

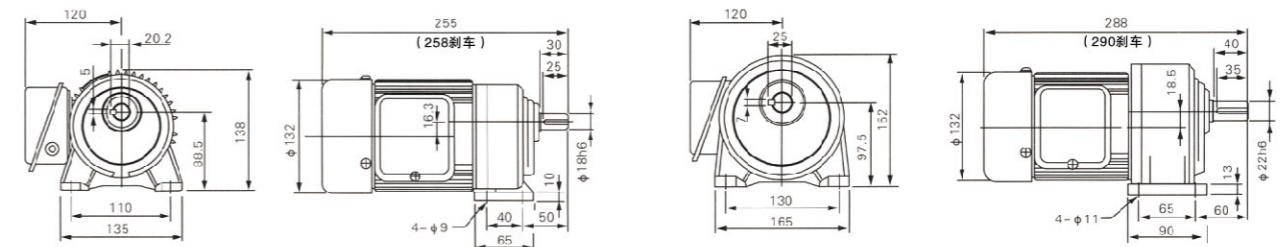
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位 Unit: mm

標準型 CH-18-100-3~60
Normal Duty Type CH-18-100-3~60
輕負載縮框型 CH-18-100-70~200
Light load miniature frame CH-18-100-70~200

標準型 CH-22-100-60~200
Normal Duty Type CH-22-100-60~200



CV型立式三相鋁殼(剎車)馬達減速機

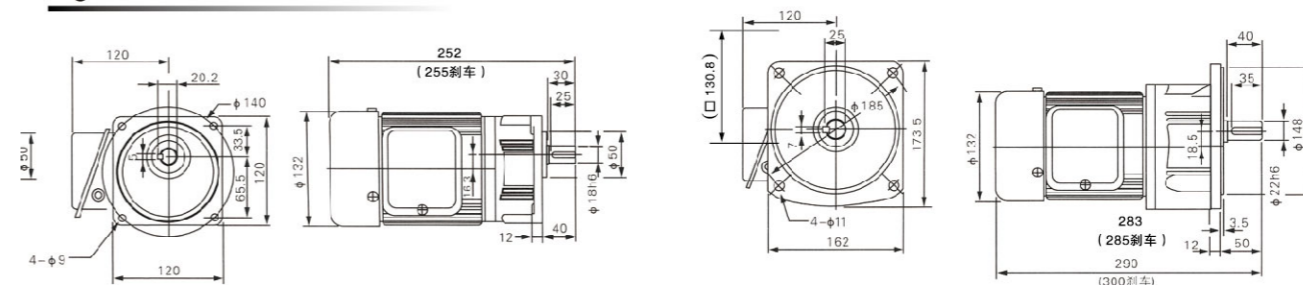
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位 Unit: mm

標準型 CV-18-100-3~60
Normal Duty Type CV-18-100-3~60
輕負載縮框型 CH-18-100-70~200
Light load miniature frame CH-18-100-70~200

標準型 CV-22-100-60~200
Normal Duty Type CV-22-100-60~200





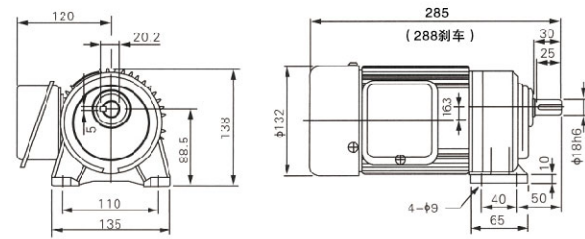
0.2KW

馬達尺寸圖 Dimensions chart

單位 Unit: mm

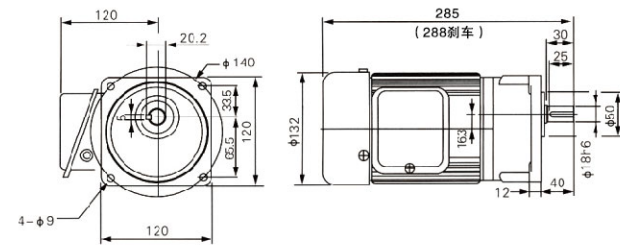
CH 型卧式三相鋁殼 (剎車) 馬達減速機
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

標準型 CH-18-200-3~10
Normal Duty Type CH-18-200-3~10
輕負載縮框型 CH-18-200-15~90
Light load miniature frame CH-18-200-15~90

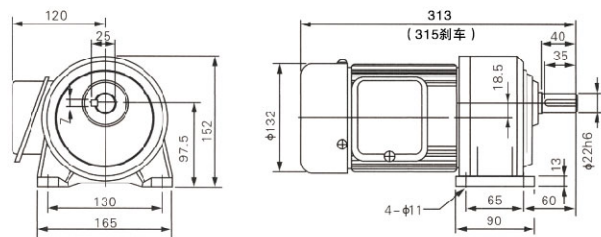


CV 型立式三相鋁殼 (剎車) 馬達減速機
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

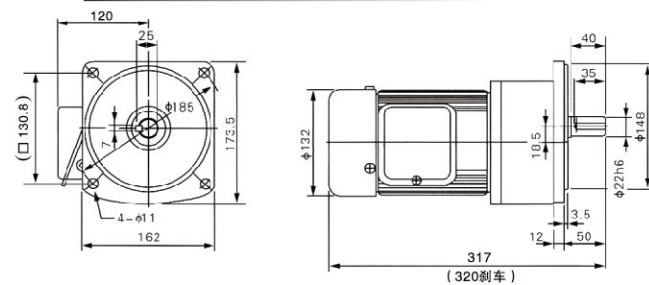
標準型 CV-18-200-3~10
Normal Duty Type CV-18-200-3~10
輕負載縮框型 CH-18-200-15~90
Light load miniature frame CH-18-200-15~90



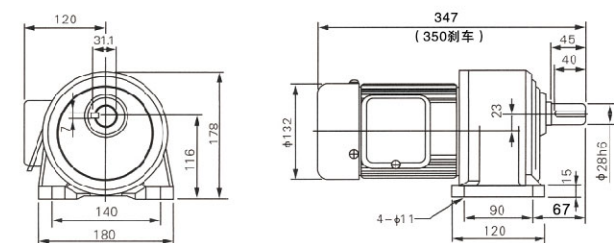
標準型 CH-22-200-15~90
Normal Duty Type CH-22-200-15~90
輕負載縮框型 CH-22-200-100~200
Light load miniature frame CH-22-200-100~200



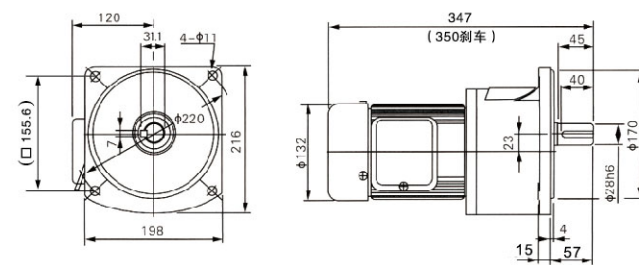
標準型 CV-22-200-15~90
Normal Duty Type CV-22-200-15~90
輕負載縮框型 CV-22-200-100~200
Light load miniature frame CV-22-200-100~200



標準型 CH-28-200-100~200
Normal Duty Type CH-28-200-100~200



標準型 CV-28-200-100~200
Normal Duty Type CV-28-200-100~200



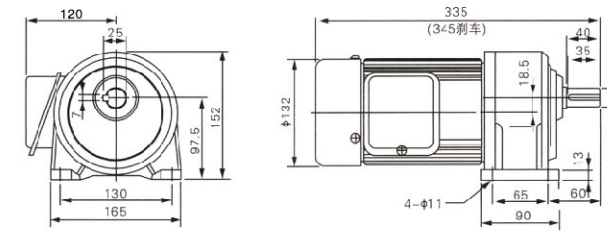
0.4KW

CH 型卧式三相鋁殼 (剎車) 馬達減速機
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

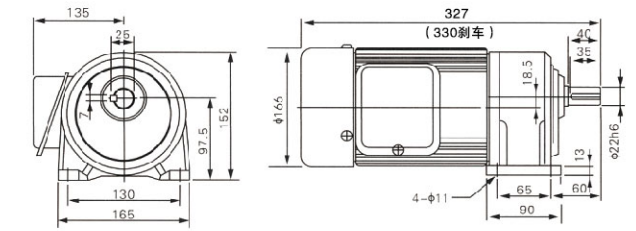
馬達尺寸圖 Dimensions chart

單位 Unit: mm

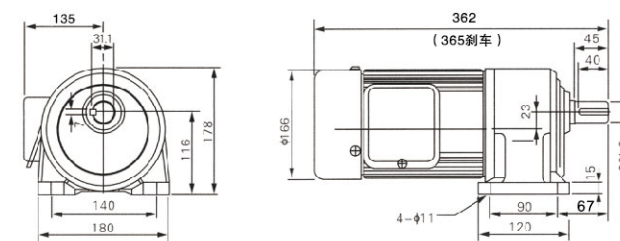
標準型 CH-22-400-3~10
Normal Duty Type CH-22-400-3~10
輕負載縮框型 CH-22-400-15~90
Light load miniature frame CH-22-400-15~90



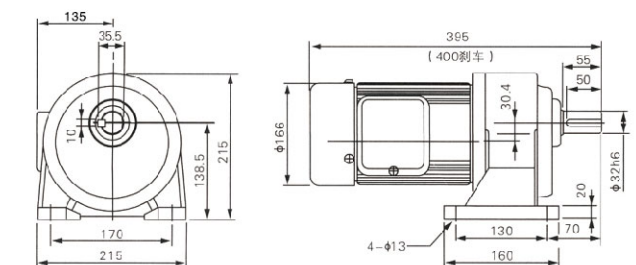
標準型 CH-22-400-3~10
Normal Duty Type CH-22-400-3~10
輕負載縮框型 CH-22-400-15~90
Light load miniature frame CH-22-400-15~90



標準型 CH-28-400-15~90
Normal Duty Type CH-28-400-15~90
輕負載縮框型 CH-28-400-100~200
Light load miniature frame CH-28-400-100~200



標準型 CH-32-400-100~200
Normal Duty Type CH-32-400-100~200



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.



0.4KW

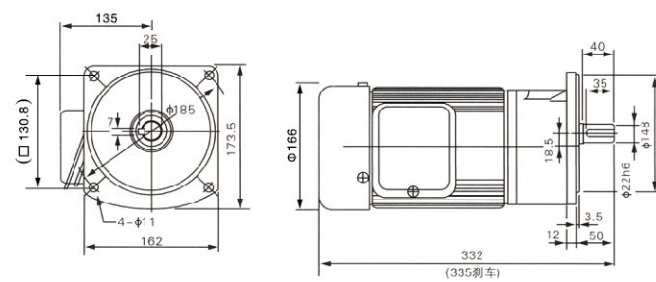
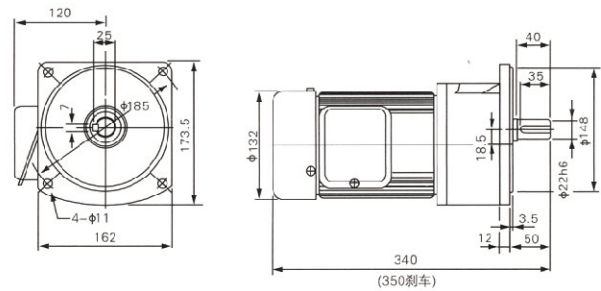
CV 型立式三相鋁殼 (剎車) 馬達減速機
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位 Unit: mm

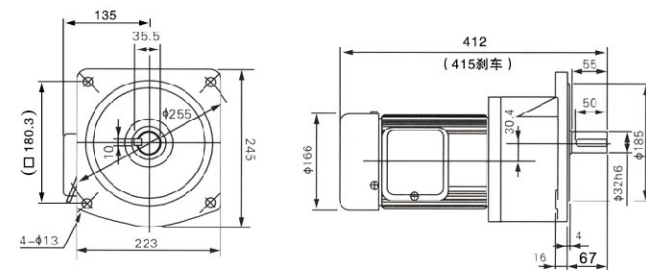
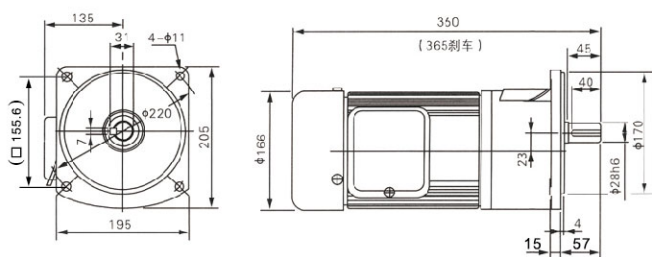
標準型 CV-22-400-3~10
Normal Duty Type CV-22-400-3~10
輕負載縮框型 CV-22-400-15~90
Light load miniature frame CV-22-400-15~90

標準型 CV-22-400-3~10
Normal Duty Type CV-22-400-3~10
輕負載縮框型 CV-22-400-15~90
Light load miniature frame CV-22-400-15~90



標準型 CV-28-400-15~90
Normal Duty Type CV-28-400-15~90
輕負載縮框型 CV-28-400-100~200
Light load miniature frame CV-28-400-100~200

標準型 CV-32-400-100~200
Normal Duty Type CV-32-400-100~200



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

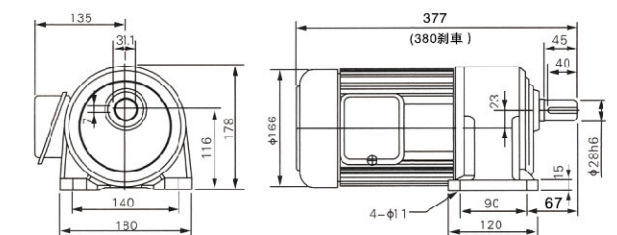
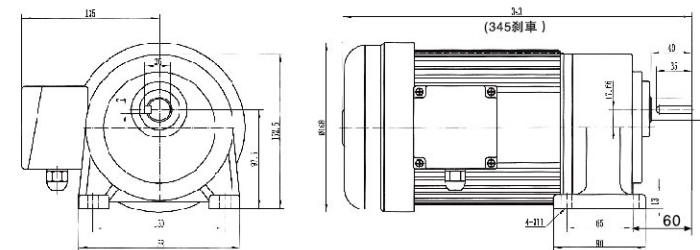
CH 型卧式三相鋁殼 (剎車) 馬達減速機
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

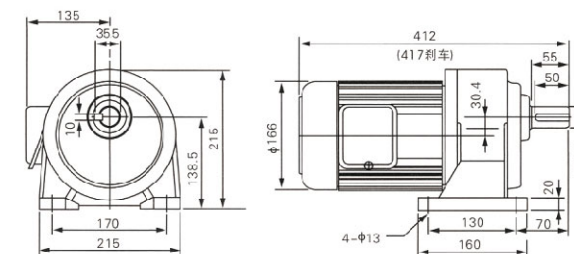
單位 Unit: mm

輕負載縮框型 CH-22-550-3~25
Light load miniature frame CH-22-550-3~25

標準型 CH-28-550-3~25
Normal Duty Type CH-28-550-3~25
輕負載縮框型 CH-28-550-30~120
Light load miniature frame CH-28-550-30~120



標準型 CH-32-550-30~120
Normal Duty Type CH-32-550-30~120
輕負載縮框型 CH-32-550-130~200
Light load miniature frame CH-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

CV 型立式三相鋁殼 (剎車) 馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR



0.75KW

CH 型卧式三相鋁殼 (剎車) 馬達減速機

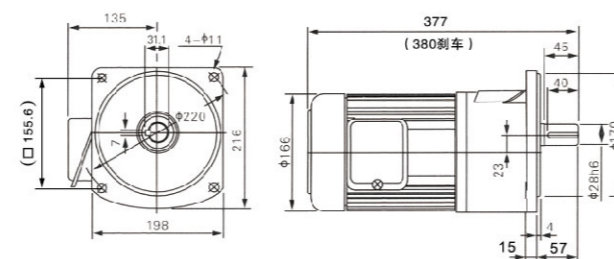
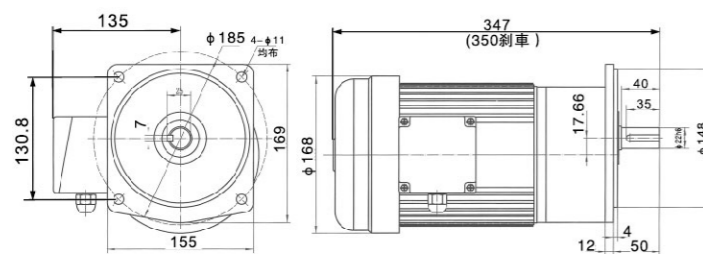
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

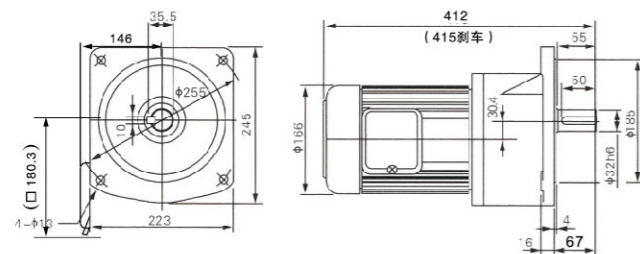
單位 Unit: mm

輕負載縮框型 **CV-22-550-3~25**
Light load miniature frame CV-22-550-3~25

標準型 **CV-28-550-3~25**
Normal Duty Type CV-28-550-3~25
輕負載縮框型 CV-28-550-30~120
Light load miniature frame CV-28-550-30~120



標準型 **CV-32-550-30~120**
Normal Duty Type CV-32-550-30~120
輕負載縮框型 CV-32-550-130~200
Light load miniature frame CV-32-550-130~200



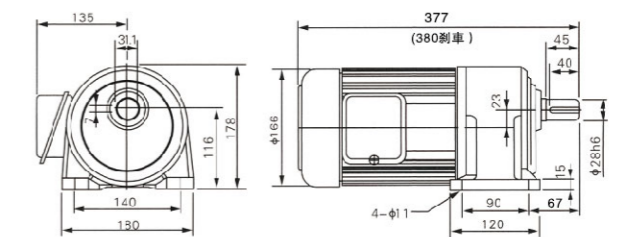
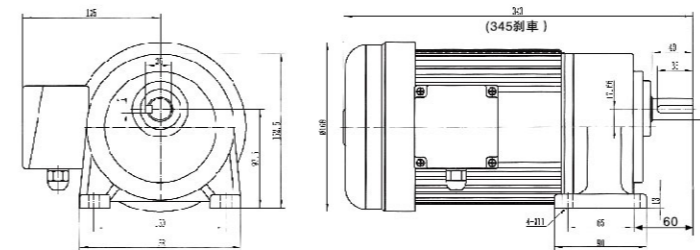
注：縮框型為輕負載，無大慣性場合中使用。為不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

馬達尺寸圖 Dimensions chart

單位 Unit: mm

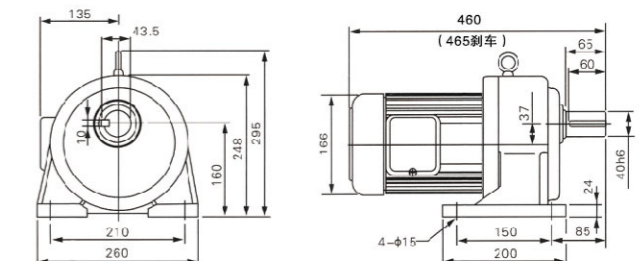
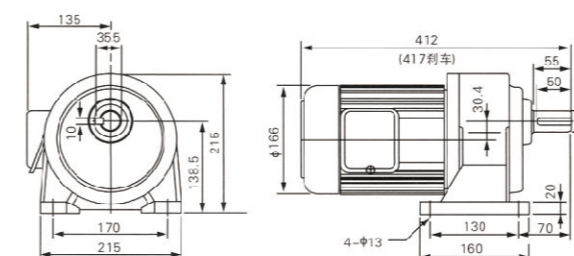
輕負載縮框型 **CH-22-750-3~25**
Light load miniature frame CH-22-750-3~25

標準型 **CH-28-750-3~25**
輕負載縮框型 CH-28-750-30~120
Light load miniature frame CH-28-750-30~120



標準型 **CH-32-750-30~120**
Normal Duty Type CH-32-750-30~120
輕負載縮框型 CH-32-750-130~200
Light load miniature frame CH-32-750-130~200

標準型 **CH-40-750-130~200**
Normal Duty Type CH-40-750-130~200



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.



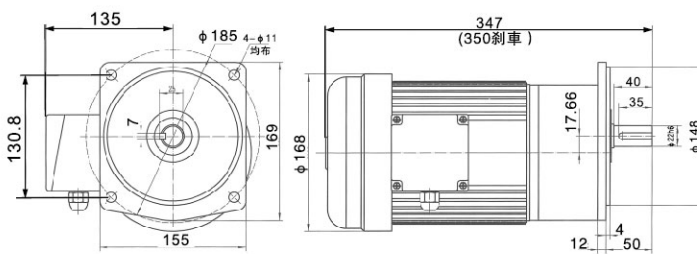
0.75KW

CV 型立式三相鋁殼 (剎車) 馬達減速機
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

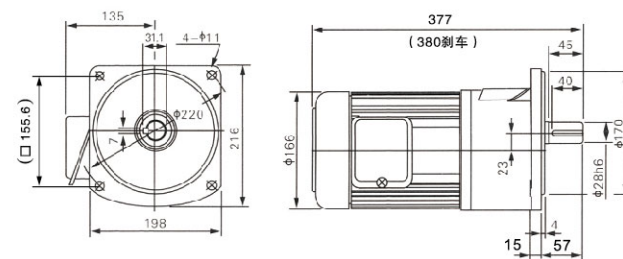
馬達尺寸圖 Dimensions chart

單位 Unit: mm

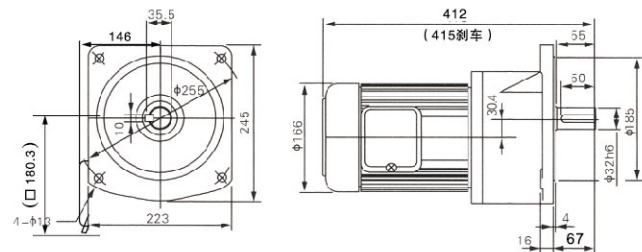
輕負載縮框型 **CV-22-750-3~25**
Light load miniature frame CV-22-750-3~25



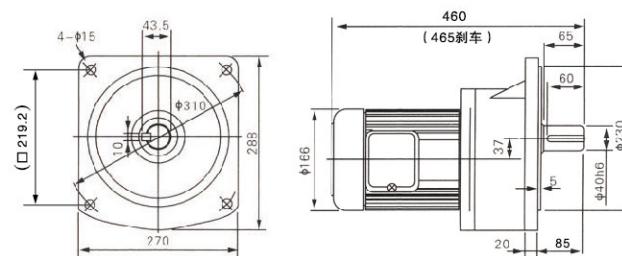
標準型 **CV-28-750-3~25**
Normal Duty Type CV-28-750-3~25
輕負載縮框型 CV-28-750-30~120
Light load miniature frame CV-28-750-30~120



標準型 **CV-32-750-30~120**
Normal Duty Type CV-32-750-30~120
輕負載縮框型 CV-32-750-130~200
Light load miniature frame CV-32-750-130~200



標準型 **CV-40-750-100~200**
Normal Duty Type CV-40-750-100~200



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.



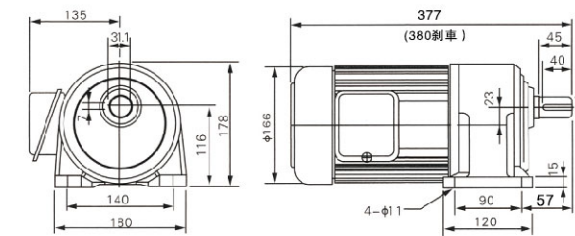
1.1 KW

CH 型卧式三相鋁殼 (剎車) 馬達減速機
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

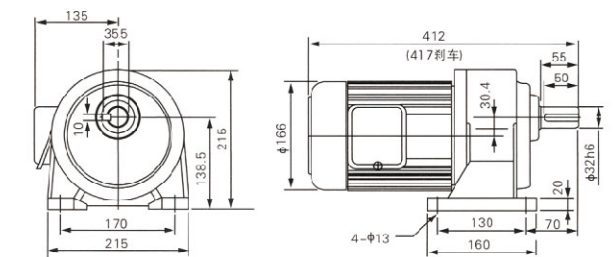
馬達尺寸圖 Dimensions chart

單位 Unit: mm

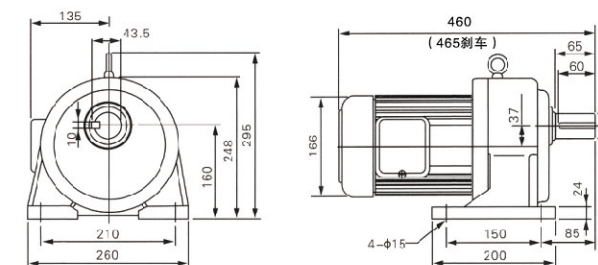
標準型 **CH-28-1100-3~25**
Normal Duty Type CH-28-1100-3~25
輕負載縮框型 CH-28-1100-30~100
Light load miniature frame CH-28-1100-30~100



標準型 **CH-32-1100-30~50**
Normal Duty Type CH-32-1100-30~50
輕負載縮框型 CH-32-1100-60~160
Light load miniature frame CH-32-1100-60~160



標準型 **CH-40-1100-130~200**
Normal Duty Type CH-40-1100-130~200



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.



1.1 KW

CV 型立式三相鋁殼 (剎車) 馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR



1.5KW

CH 型卧式三相鋁殼 (剎車) 馬達減速機

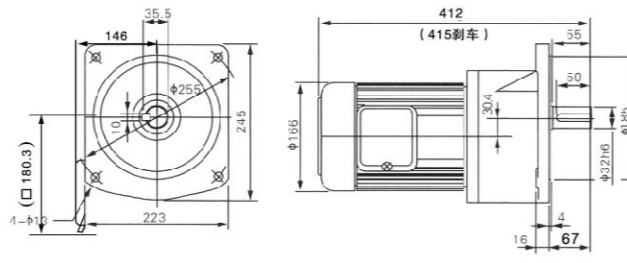
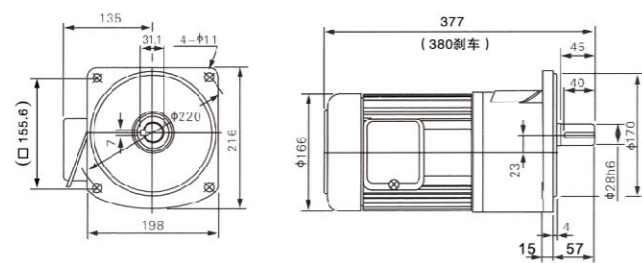
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

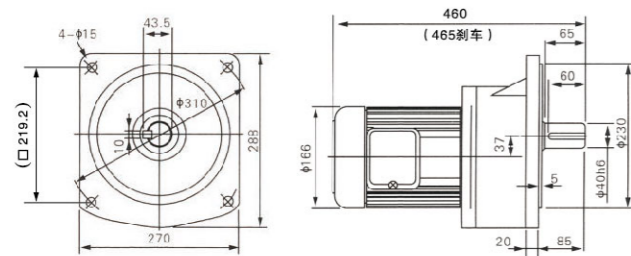
單位 Unit: mm

標準型 CV-28-1100-3~25
Normal Duty Type CV-28-1100-3~25
輕負載縮框型 CV-28-1100-30~100
Light load miniature frame CV-28-1100-30~100

標準型 CV-32-1100-30~50
Normal Duty Type CV-32-1100-30~50
輕負載縮框型 CV-32-1100-60~160
Light load miniature frame CV-32-1100-60~160



標準型 CV-40-1100-130~200
Normal Duty Type CV-40-1100-130~200



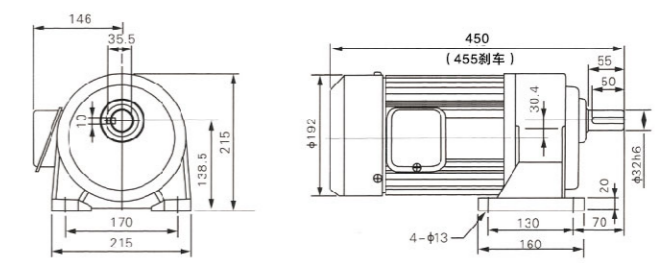
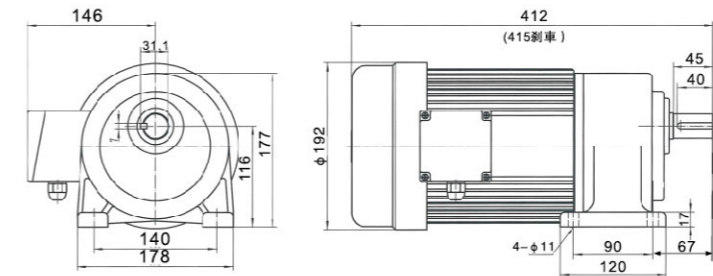
注：縮框型為輕負載，無大慣性場合中使用。為不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

馬達尺寸圖 Dimensions chart

單位 Unit: mm

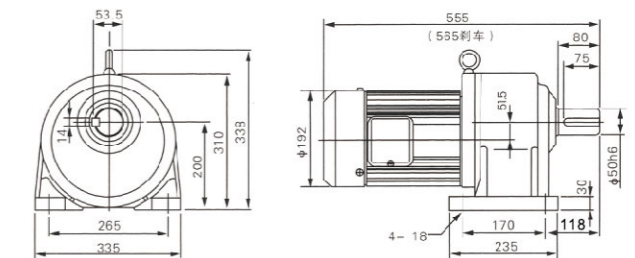
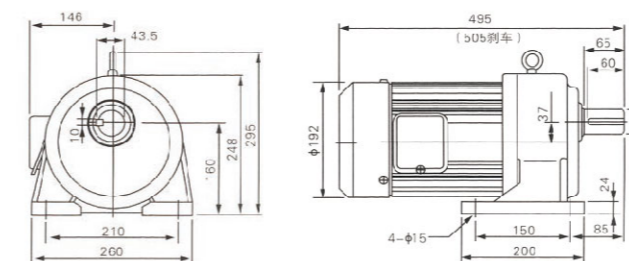
輕負載縮框型 CH-28-1500-3~25
Light load miniature frame CH-28-1500-3~25

標準型 CH-32-1500-3~30
Normal Duty Type CH-32-1500-3~30
輕負載縮框型 CH-32-1500-40~90
Light load miniature frame CH-32-1500-40~90



標準型 CH-40-1500-35~100
Normal Duty Type CH-40-1500-35~100
輕負載縮框型 CH-40-1500-110~200
Light load miniature frame CH-40-1500-110~200

標準型 CH-50-1500-110~200
Normal Duty Type CH-50-1500-110~200



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.



1.5KW

CV 型立式三相鋁殼 (剎車) 馬達減速機
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR



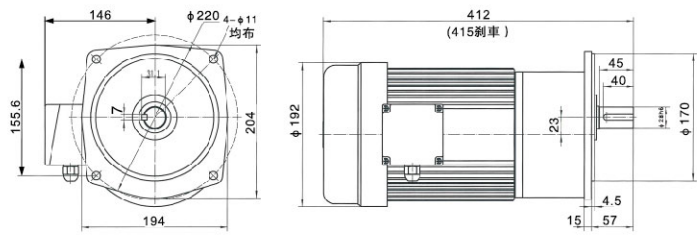
2.2KW

CH 型卧式三相鋁殼 (剎車) 馬達減速機
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

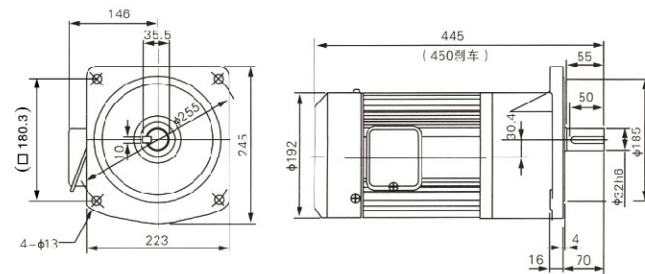
馬達尺寸圖 Dimensions chart

單位 Unit: mm

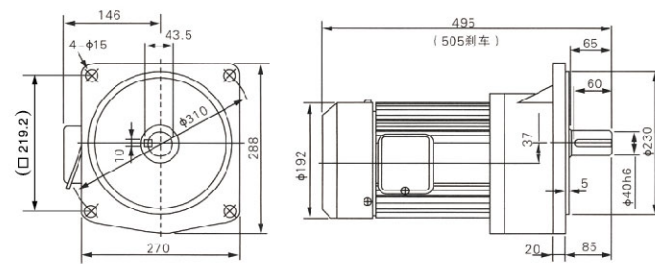
輕負載縮框型 **CV-28-1500-3~25**
Light load miniature frame CV-28-1500-3~25



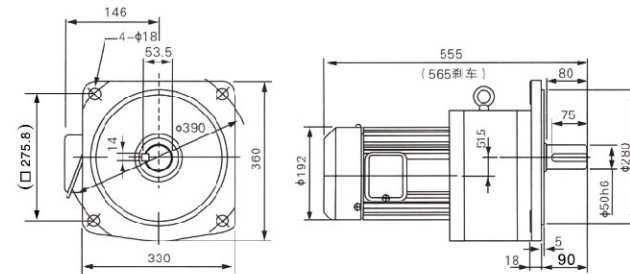
標準型 **CV-32-1500-3~30**
Normal Duty Type CV-32-1500-3~30
輕負載縮框型 CV-32-1500-40~100
Light load miniature frame CV-32-1500-40~100



標準型 **CV-40-1500-35~100**
Normal Duty Type CV-40-1500-35~100
輕負載縮框型 CV-40-1500-110~200
Light load miniature frame CV-40-1500-110~200



標準型 **CV-50-1500-110~200**
Normal Duty Type CV-50-1500-110~200

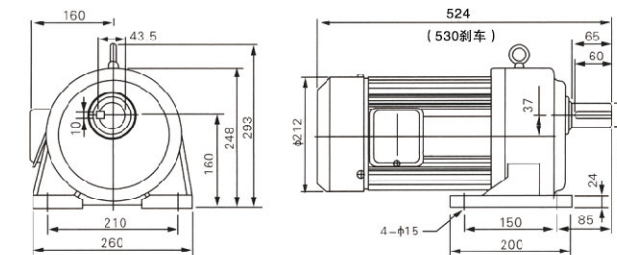


注：縮框型為輕負載，無大慣性場合中使用。為不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

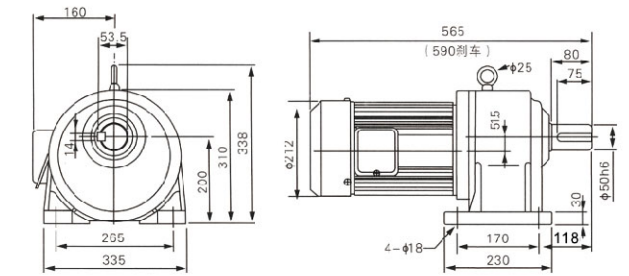
馬達尺寸圖 Dimensions chart

單位 Unit: mm

標準型 **CH-40-2200-3~40**
Normal Duty Type CH-40-2200-3~40
輕負載縮框型 CH-40-2200-50~80
Light load miniature frame CH-40-2200-50~80



標準型 **CH-50-2200-50~100**
Normal Duty Type CH-50-2200-50~100
輕負載縮框型 CH-50-2200-100~200
Light load miniature frame CH-50-2200-100~200

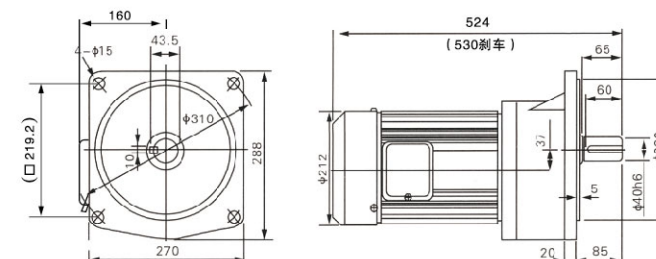


CV 型立式三相鋁殼 (剎車) 馬達減速機
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

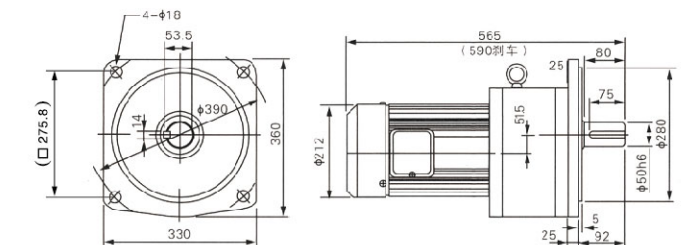
馬達尺寸圖 Dimensions chart

單位 Unit: mm

標準型 **CV-40-2200-3~40**
Normal Duty Type CV-40-2200-3~40
輕負載縮框型 CV-40-2200-50~80
Light load miniature frame CV-40-2200-50~80



標準型 **CV-50-2200-50~100**
Normal Duty Type CV-50-2200-50~100
輕負載縮框型 CV-50-2200-110~200
Light load miniature frame CV-50-2200-110~200





3.7KW

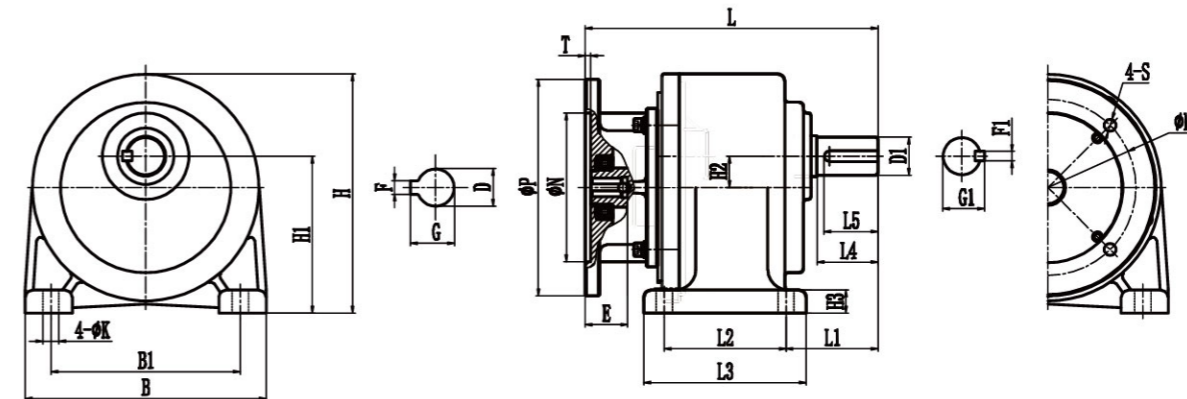
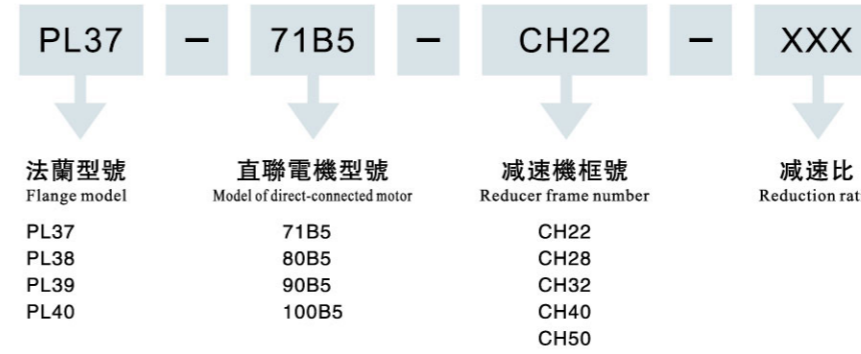
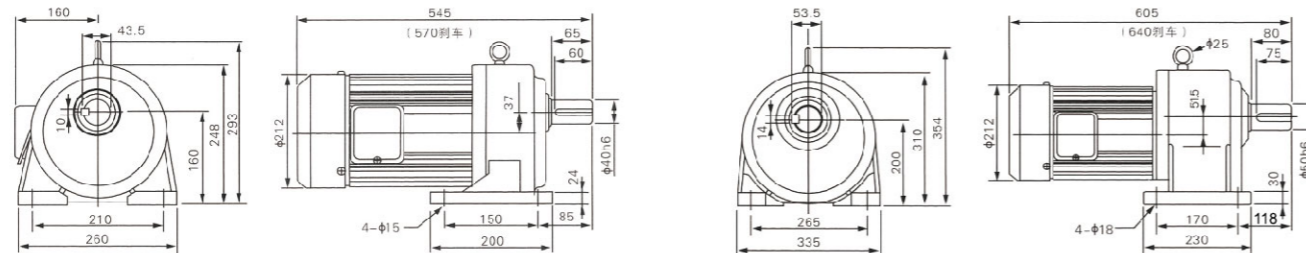
CH 型卧式三相鋁殼 (剎車) 馬達減速機
CH HORIZONTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位 Unit: mm

標準型 CH-40-3700-3~10
Normal Duty Type CH-40-3700-3~10
輕負載縮框型 CH-40-15~60
Light load miniature frame CH-40-15~60

標準型 CH-50-3700-15~60
Normal Duty Type CH-50-3700-15~60
輕負載縮框型 CH-50-3700-70~200
Light load miniature frame CH-50-3700-70~200



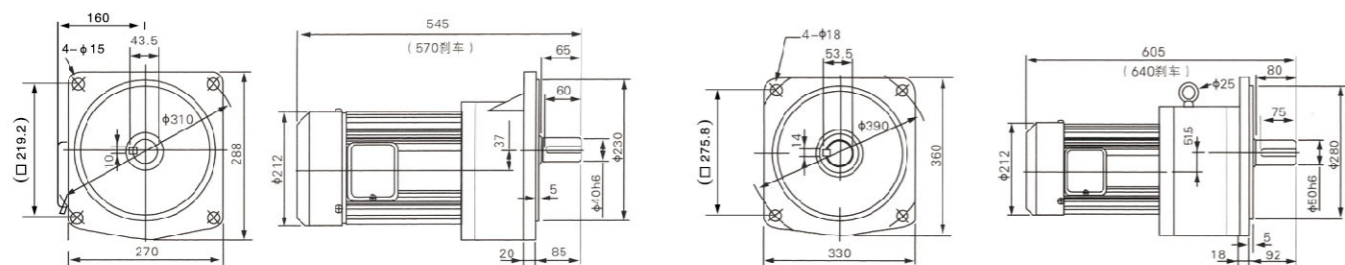
CV 型立式三相鋁殼 (剎車) 馬達減速機
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

馬達尺寸圖 Dimensions chart

單位 Unit: mm

標準型 CV-40-3700-3~10
Normal Duty Type CV-40-3700-3~10
輕負載縮框型 CV-50-3700-15~60
Light load miniature frame CV-50-3700-15~60

標準型 CV-50-3700-15~60
Normal Duty Type CV-50-3700-15~60
輕負載縮框型 CV-50-3700-70~200
Light load miniature frame CV-50-3700-70~200



法蘭型號 FLANGE MODEL	馬力 KW	減速比 RATIO	型號 TYPE	B	B1	L	L1	L2	L3	H	H1	H2	H3	K	重量 KG
PL37-71B5	400W 1/2HP	3-10	22	160	130	188	60	65	90	152	97.5	18.5	15	11	6
		15-90	28	180	140	216	67	90	122	180	116	23	15	11	8
		100-200	32	215	170	250	70	130	160	210	138.5	30.4	25	13	21
PL38-80B5	750W 1HP	3-25	28	180	140	237	67	90	122	180	116	23	15	11	11
		30-120	32	215	170	275	70	130	160	210	138.5	30.4	25	13	26
		125-200	40	260	210	300	85	150	185	248	160	37	25	15	38
PL38-90B5	1500KW 2HP	3-25	32	215	170	275	70	130	160	210	138.5	30.4	25	13	26
		30-120	40	260	210	300	85	150	185	248	160	37	25	15	39
PL39-100B5	2200KW 3HP	3-60	40	260	210	320	85	150	185	248	160	37	25	15	40
		70-120	50	330	265	360	118	170	220	315	200	51.5	30	18	45
		3700KW 5HP	3-25	40	260	210	320	85	150	185	248	160	37	25	15
		30-80	50	330	265	360	118	170	220	318	200	51.5	30	18	55

入力軸与法蘭尺寸 INPUT SHAFT AND FLANGE

馬力 KW	入力軸 SHAFT		鍵槽 KEYWAY		輸入法蘭 FLANGE				
	D	E	F	G	M	N	P	S	T
1/2HP	φ14	32	5	16.3	130	110	158	M8	4
1HP	φ19	42	6	21.8	165	130	198	M10	4
2HP	φ24	52	8	27.3	165	130	198	M10	4
3HP	φ28	62	8	31.3	215	180	250	M12	4.5
5HP	φ28	62	8	31.3	215	180	250	M12	4.5

出力軸尺寸 OUTPUT SHAFT

出力軸 SHAFT	鍵槽 KEYWAY		鍵 KEY		
	D1 (h6)	L4	F1	G1	L5
φ22	40	7	25	35	7×7×35
φ28	45	7	31.1	40	7×7×40
φ32	55	10	35.5	50	10×8×50
φ40	65	10	43.5	60	10×8×60
φ50	80	14	54	75	14×9×75

PL37 - 71B5 - CV22 - XXX

法蘭型號
Flange model

PL37
PL38
PL39
PL40

直聯電機型號
Model of direct-connected motor

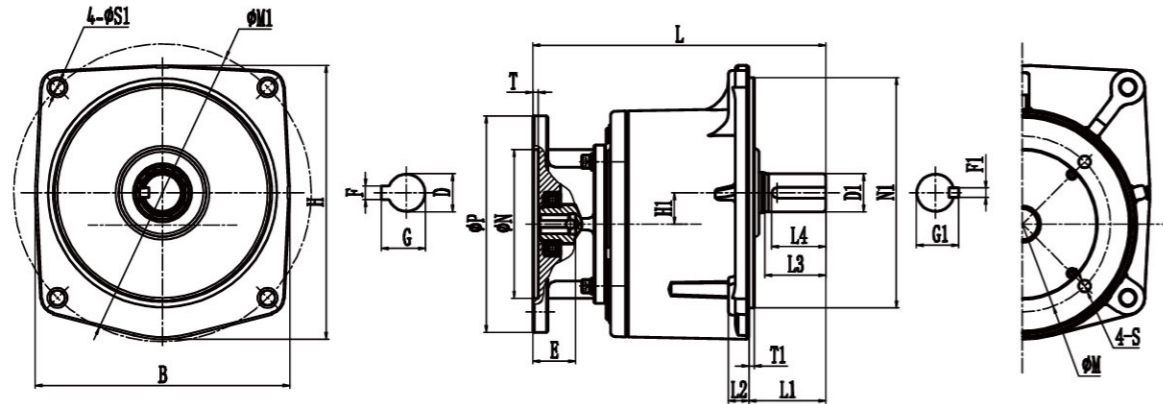
71B5
80B5
90B5
100B5

減速機框號
Reducer frame number

CV22
CV28
CV32
CV40
CV50

減速比
Reduction ratio

XXX



法蘭型號 FLANGE MODEL	馬力 KW	減速比 RATIO	型號 TYPE	B	L	L1	L2	H	H1	M1	N1	S1	T1	重量 KG
PL37-71B5	400W 1/2HP	3-10	22	156	188	50	12	170	18.5	185	148	11	3.5	6
		15-90	28	190	216	57	15	200	23	220	170	11	4	8
		100-200	32	225	250	67	17	240	30.4	255	185	13	4	21
PL38-80B5	750W 1HP	3-25	28	190	237	57	15	200	23	220	170	11	4	11
		30-120	32	225	275	67	17	240	30.4	255	185	13	5	26
		125-200	40	275	300	85	20	300	37	310	230	15	4	38
PL38-90B5	1500KW 2HP	3-25	32	225	275	67	17	240	30.4	255	185	13	5	26
		30-120	40	275	300	85	20	300	37	310	230	15	5	39
PL39-100B5	2200KW 3HP	3-60	40	275	320	85	20	300	37	310	230	15	5	39
		70-120	50	330	360	92	20	360	51.5	390	280	19	5	44
		3-25	40	275	320	85	20	300	37	310	230	15	5	55
	3700KW 5HP	30-80	50	330	360	92	20	360	51.5	390	280	19	5	60

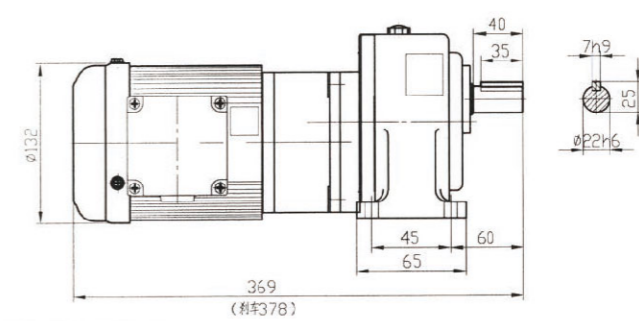
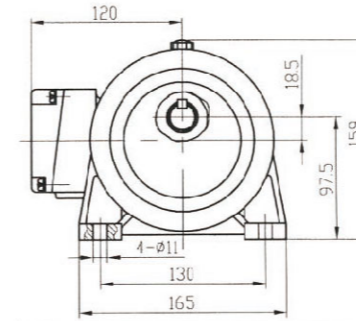
輸入軸與法蘭尺寸 INPUT SHAFT AND FLANGE									
馬力 KW	輸入軸 SHAFT		鍵槽 KEYWAY		輸入法蘭 FLANGE				
	D	E	F	G	M	N	P	S	T
1/2HP	φ14	32	5	16.3	130	110	158	M8	4
1HP	φ19	42	6	21.8	165	130	198	M10	4
2HP	φ24	52	8	27.3	165	130	198	M10	4
3HP	φ28	62	8	31.3	215	180	250	M12	4.5
5HP	φ28	62	8	31.3	215	180	250	M12	4.5

輸出軸尺寸 OUTPUT SHAFT					
輸出軸 SHAFT	鍵槽 KEYWAY	鍵 KEY			
		D1 (h6)	L3	F1	G1
φ22	40	7	25	35	7×7×35
φ28	45	7	31.1	40	7×7×40
φ32	55	10	35.5	50	10×8×50
φ40	65	10	43.5	60	10×8×60
φ50	80	14	54	75	14×9×75

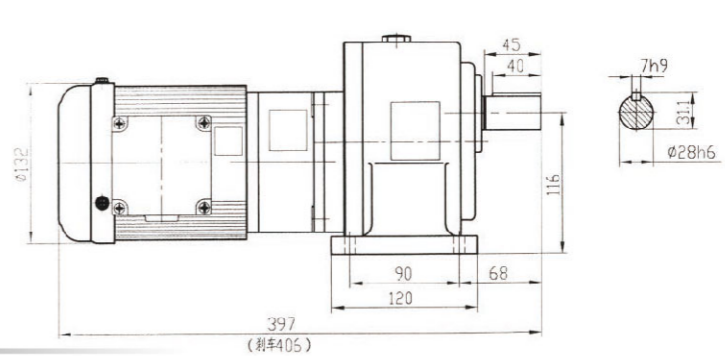
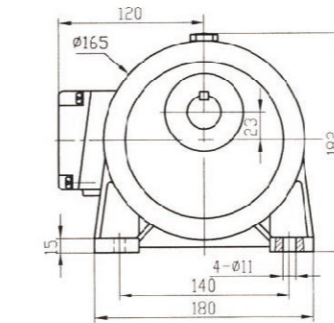
CH、CV組合型三相鋁殼（剎車）馬達減速機
CH、CV combined three-phase aluminum(brake) motor speed reducer

馬達尺寸圖 Dimensions chart
輕負載縮框型 Light load miniature frame

單位 Unit: mm

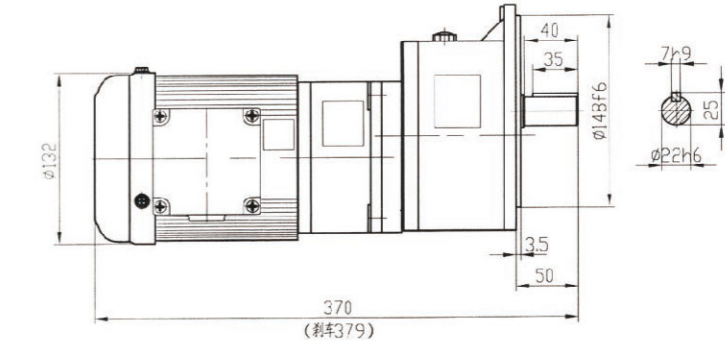
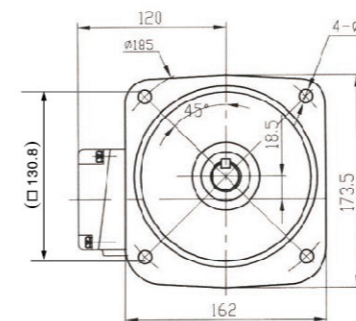


CH28+CH18-100-250~1800

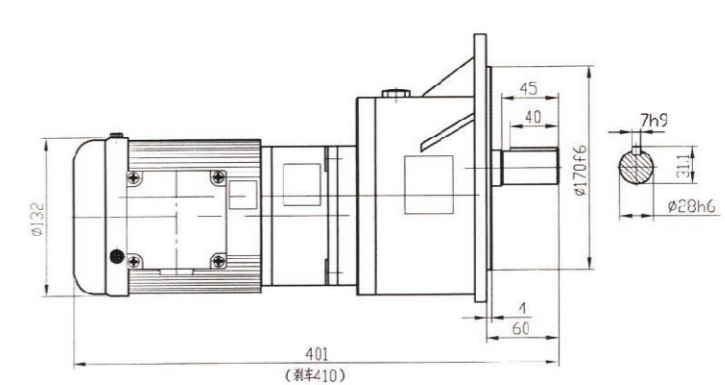
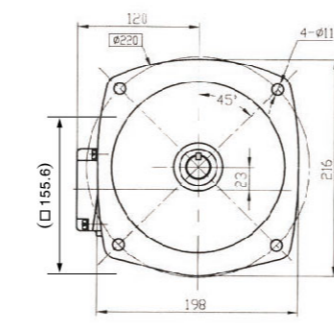


CV22+CV18-100-250~1800

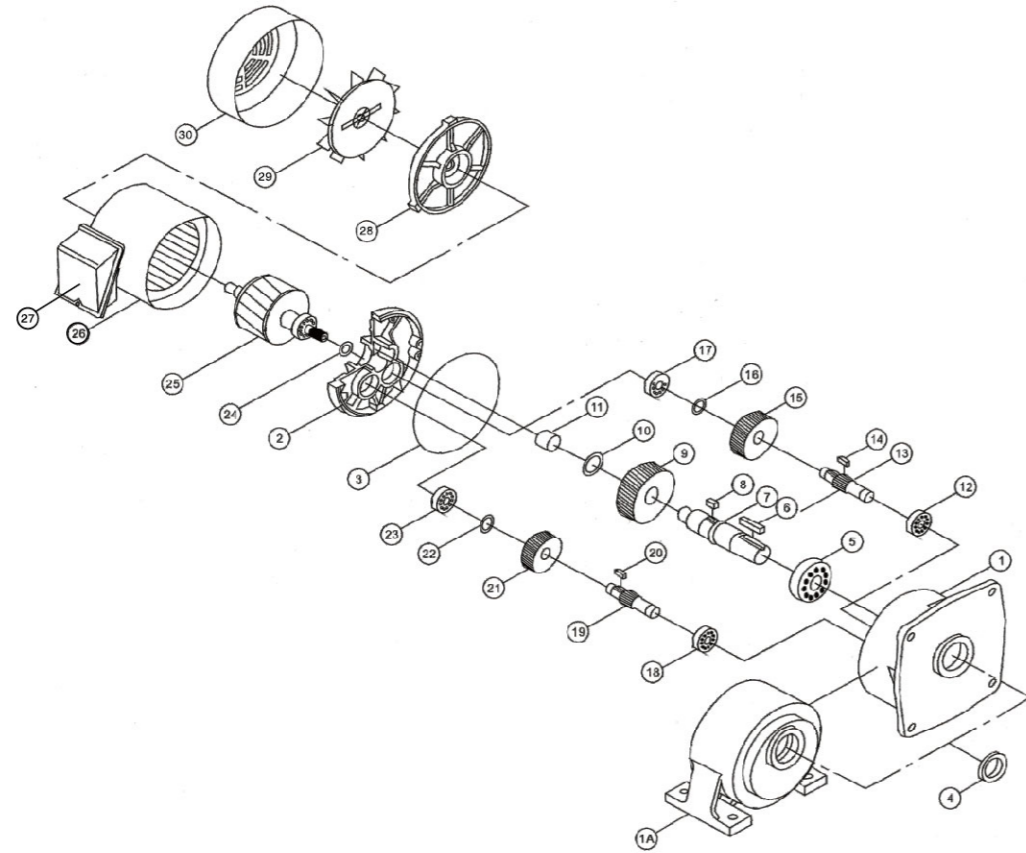
輕負載縮框型 Light load miniature frame



CV28+CV18-100-250~1800

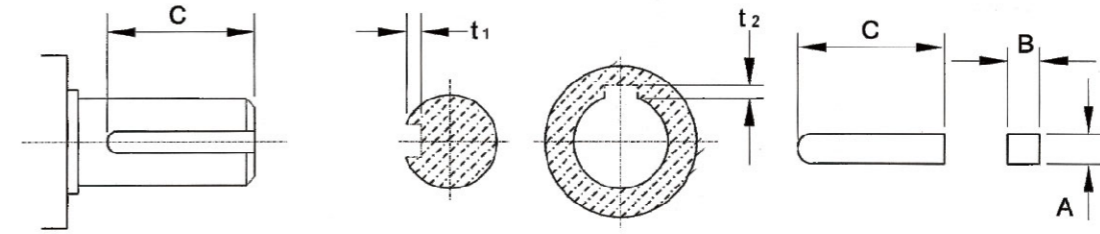


產品結構圖 Product Structure Drawing



序號 Item	品名 denomination	序號 Item	品名 denomination	序號 Item	品名 denomination
1	本體 housing	11	培林 ball bearing	21	一段大齒輪 1rd main gear
2	本體蓋 housing cover	12	培林 ball bearing	22	扣環 snap ring
3	O型環 o-ring	13	三段大齒輪 3rd main gear	23	培林 ball bearing
4	出力軸油封 oil seal	14	鍵 key	24	入力軸油封 oil seal
5	培林 ball bearing	15	二段大齒輪 2rd main gear	25	馬達軸及轉子 motor shaft
6	鍵 key	16	扣環 snap ring	26	繞圈總成 coil assembly
7	出力軸 out put shaft	17	培林 ball bearing	27	接線盒 terminal box
8	鍵 key	18	培林 ball bearing	28	馬達後蓋 Rear cover motr
9	三段大齒輪 3rd main gear	19	二段大齒輪 2rd main gear	29	風扇 Fan
10	扣環 snap ring	20	鍵 key	30	風罩 Fan cover

鍵/鍵槽加工尺寸 (KEY/KEYWAY DIMENSION)



軸徑 SHAFT DIA	鍵 KEY		鍵槽 KEYWAY			
	新JIS規範 NEW JIS SPEC	舊JIS規範 OLD JIS SPEC	新JIS規範 NEW JIS SPEC (SHAFT/HOLE)		舊JIS規範 OLD JIS SPEC (SHAFT/HOLE)	
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 _{+0.1}	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}

相關計算 CALCULATE DATA

(A) 連結系數表 (CONNECTION FACTOR)

鏈輪 SPROCKET	1.00
齒輪 GEAR	1.25
三角皮帶 BELT	1.50
平皮帶 FLAT BELT	2.50

(B) 荷重系數表 (SERVICE FACTOR)

減速機負載等級 LOAD GRADE	每日運轉時間 (HRS) DAILY OPERATING HOURS			
	1-2	3-8	9-15	16-24
均一負載 UNIFORM LOAD	0.80	0.90	1.20	1.30
中級重擊負載 MEDIUM IMPACT LOAD	1.00	1.20	1.30	1.50
重級重擊負載 HEAVY IMPACT LOAD	1.20	1.50	1.75	2.00

(C)符號說明(CODE DETAILS)

V=速度SPEED (M/MIN)	E=效率EFFICENCY (%)	1 INCH=2.54cm
I=減速比 RATIO	N2=出力軸轉速(RPM) OUTPUT SHAFT SPEED	1 FOOT=12 INCH
T=輸出扭力(KG-M) OUTPUT TORQUE	D=滾輪直徑(mm) ROLLER DIAMETER	1KW=1000W 1KW=1.34HP
K=連結系數 CONNECTING FACTOR	R=滾輪半徑(mm) ROLLER RADIUS	1KG-M=7.233 FT-LB 1KG-M=86.8 IN-LB
F=荷重系數 SERVICE FACTOR	KW1(HP1)=入力馬力 INPUT CAPACITY	1KG=2.2 LB 1 LB=0.4536KG
W=荷重(KG) LOAD	KW2(HP2)=輸出馬力 OUTPUT CAPACITY	N1=入力回轉速 (r/min) INPUT SHAFT ROTATION SPEED

(D)基本傳動公式(BASIC FORMULAR)

減速比 RATIO	$I=N2/N1$
回轉速度 ROTATION SPEED(r/min)	$N2=V/\pi D$
輸出扭矩 OUTPUT TORQUE (KG-M)	$T=W \times R \times K$
輸入馬力 INPUT HORSEPOWER(公制 METRIC)	$KW1=N \times T \times 974$
輸入馬力 INPUT HORSEPOWER(英制 INCH)	$HP1=N \times T / 716$
輸出馬力 OUTPUT HORSEPOWER(公制 METRIC)	$KW2=KW1 \times F/E$
輸出馬力 OUTPUT HORSEPOWER(英制 INCH)	$HP2=HP1 \times F/E$

(E)減速機水平輸送場合符號說明及傳動公式(DESCRIPTION AND TRANSMISSION)

輸送速度(r/min) TRANSMISSION SPEED	V	輸送帶摩擦系數 BELT FRICTION COEFFICIENT	μ
滾輪直徑(mm) ROLLER DIAMETER	D	鏈輪傳動效率 (%) CHAIN DRIVE EFFICIENCY	$\eta 1$
載重量(KG) LOAD	W	減速機傳動效率 (%) REDUCER TRANSMISSION	$\eta 2=0.9$
出力軸主動鏈齒數 OUTPUT SHAFT TEETH	T1	輸送機被動鏈齒輪數 CONVEYOR PASSIVE SPROCKET TEETH	T2
輸送帶所需扭力(KG-M) BELTTORQUE	T1	減速機減速比 REDUCER RATIO	I
減速機扭力(KG-M) REDUCER TORQUE	T2	減速機出力軸回轉速 (r/min) REDUCER OUTPUT SHAFT ROTATION SPEED	N2
荷重系數 SERVICE FACTOR	F (查4-13表 (B)) F (FIND 4-13 TABLE(B))		

輸送機回轉速(r/min) TRANSMISSION SPEED	$N1=V/\pi D$
減速機出力軸回轉速 (r/min) REDUCER OUTPUT SHAFT ROTATION SPEED	$N2=N2X(T2/T1)$
減速機減速比 (1) REDUCER RATIO	50HZ I=1500/N2 60HZ I=1800/N2
輸送帶所需扭力(KG-M) BELTTORQUE	$T1=W \times D / 2 \times \mu / \eta 1$
減速機所需扭力(KG-M) REDUCER TORQUE	$T2=t1 \times (t1/t2) / \eta 2$
考慮荷重系數減速馬達扭力 GEAR MOTOR TORQUE(SERVICE FACTOR BE CONSIDER)	$T3=t3 \times F$
馬力(HP) CAPACITY	$HP=t3 \times N2 / 716.2$

4-2 輸出扭矩表 OUTPUT TORQUE
標準型 (NORMAL DUTY TYPE)
KG-M

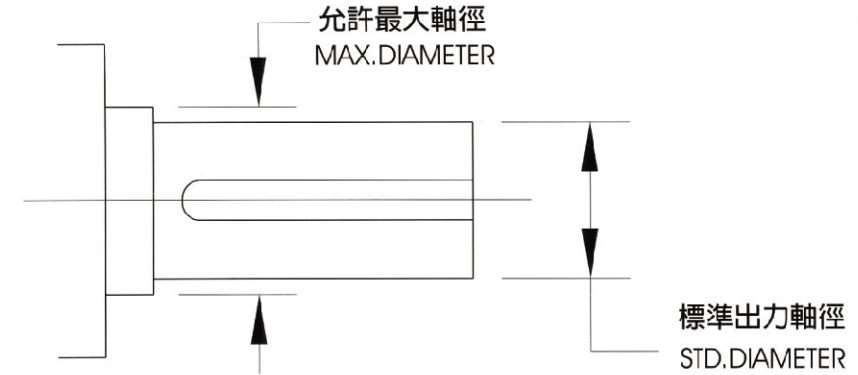
減速比 RATIO	輸出轉速 OUTPUT R.P.M		輸出扭矩 OUTPUT TORQUE																	
			1/8HP 0.1KW		1/4HP 0.2KW		1/2HP 0.4KW		3/4HP 0.55KW		1HP 0.75KW		3/2HP 1.1KW		2HP 1.5KW		3HP 2.2KW		5HP 3.7KW	
	HZ																			
	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
3	500	600	0.19	0.16	0.37	0.31	0.70	0.60	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 出力轉懸垂荷重 OVERHUNG LOAD

減速比 RATIO	輸出轉速 OUTPUT R.P.M		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	30	25	30	25	54	45	54	45	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								

KG

4-4 出力軸允許最大軸徑 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出力軸軸徑對照表 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	40	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	50			
140	22	28	32	32	40	40	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	
25			22	22	22	22	28		40	
30		18	22	22	28	28	28		40	
40		18	22	22	28	28	32		40	
45		18	22	22	28	28	32		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	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				

備注 REMARK

- 縮框機型為不正當設計使用，如非必要請勿選用
LIGHT DUTY TYPE ARE NOT AVAILABLE FOR STANDARD APPLICATION DESIGN, IT ONLY SUITABLE FOR SPECIAL PROJECT DESIGN
- 僅就馬達部份提供一年保固，PROVIDE ONE YEAR GUARANTEE FOR MOTOR ONLY
- *為達到此速比時必須搭配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	1097.35	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			

輕負載縮框型 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小時可不比更換潤滑油脂,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 IMPAT.....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	本體框號 HOUSING CODE	機型TYPE								
			油量表 (公升) LUBRICANT(L)		重量表 (公斤) WEIGHT(KG)						
			CH CHM CHD	CV CVM CVD	CH	CHM	CHD	CV	CVM	CVD	
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	27.6	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	
	Φ28	3#	0.63	0.68	15.5	12.1	8.30	15.0	11.9	8.10	
1100W 3/2HP	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	
	Φ32	4#	0.95	1.05	33.6	25.0	22.0	34.6	26.0	23.0	
1500W 2HP	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	--	--
			Φ40	5#	D	1.680	1.800	49.0	40.8	36.5	51.0
	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

備注: 1、此表僅供參考,具體以實物為準

1、THIS TABLE IS FOR REFERENCE ONLY SUBJECT TO THE SPECIFIC KIND

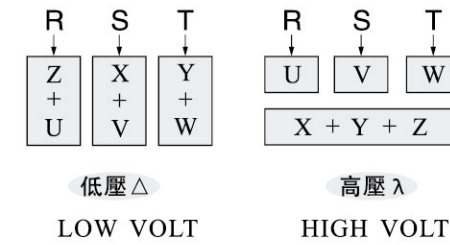
4-8 速比/段數使用表 RATIO/GEAR STAGE TABLE

馬力 CAPACITY	速比 RATIO	雙段 (D) 2 ND STAGE	三段 (T) 3 ND 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				
	1/250-1/1800			DD			
1/4HP (200W)	1/3-1/35	D					
	1/40-1/200		T				
	1/60、180、200		T				
	1/250-1/1800				DD		
1/2HP (400W)	1/3-1/35	D					
	1/40-1/200						
	1/250-1/1800				DD		
3/4HP (550W)	1/3-1/35	D					
	1/40-1/200						
	1/250-1/1800				DD		
1HP (750W)	1/3-1/30	D					
	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)	1/3-1/22	D					
	1/25-1/50		T				
	1/55-1/100						
	1/105、 115、120		T				
3HP (2200W)	1/3-1/15	D					
	1/20-1/100		T				
5HP (3700W)	1/3-1/25	D					
	1/30-1/60		T				
**馬達到以下速比時，必需搭配6P馬達使用 TO REACH CERTAIN RATIO THAT NEED TO USE 6 POLE MOTOR							
2HP	1/130、1/150、1/160、1/170、1/180						

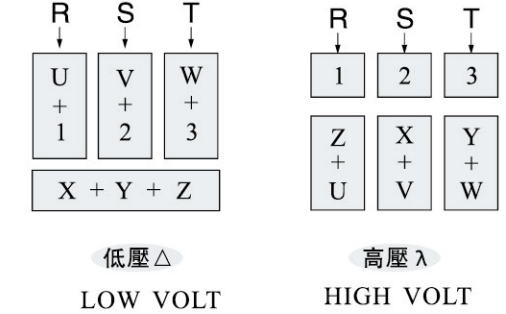
4-9 接線方式 WIRING DIAGRAM

(1) 三相馬達/剎車器接線方式 (THREE PHASE MOTOR W/BRAKE UNIT DIAGRAM)

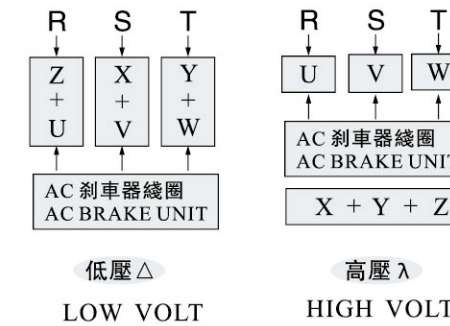
(a) 三相六條馬達電源線 (FOR SIX WIRES)



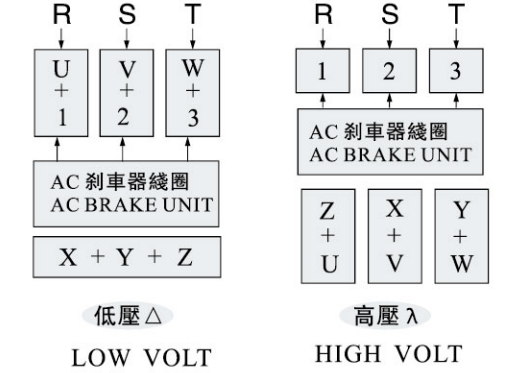
(b) 三相九條馬達電源線 (FOR SIX WIRES)



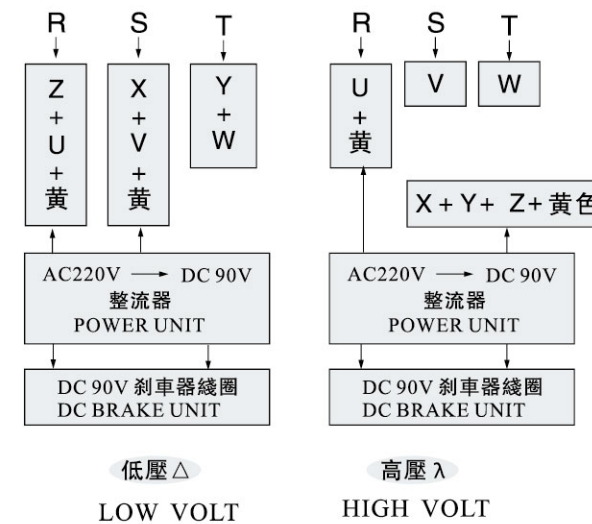
(c) 三相六條馬達電源線交流剎車器 (SIX WIRES W/AC BRAKE UNIT)



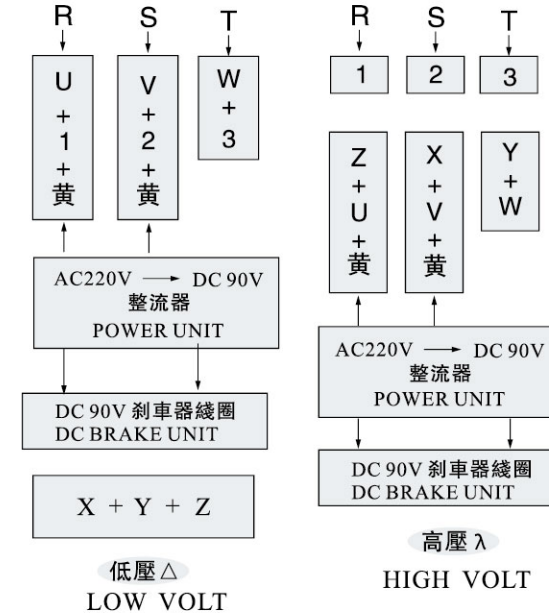
(d) 三相九條馬達電源線交流剎車器 (NINE WIRES W/AC BRAKE UNIT)



(e) 六條馬達電源線直流剎車器 (SIX WIRES W/DC BRAKE UNIT)

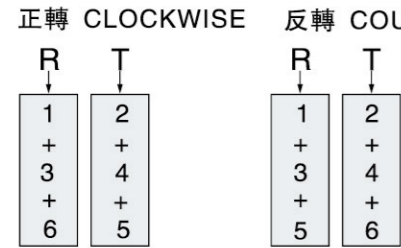


(f) 九條馬達電源線直流剎車器 (NINE WIRES W/DC BRAKE UNIT)

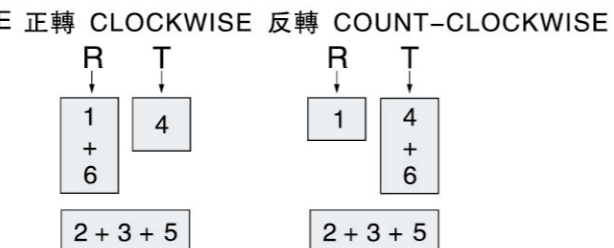


(2) 單相馬達/剎車器接線方式 (SINGLE PHASE MOTOR W/BRAKE UNIT DIAGRAM)

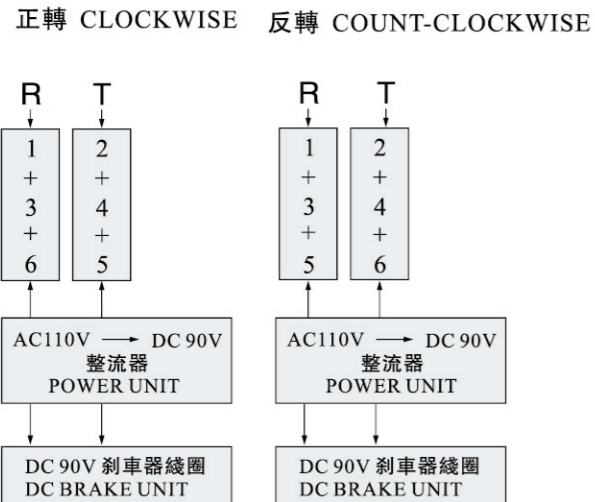
(a) 單相低壓 LOW VOLTAGE-110V



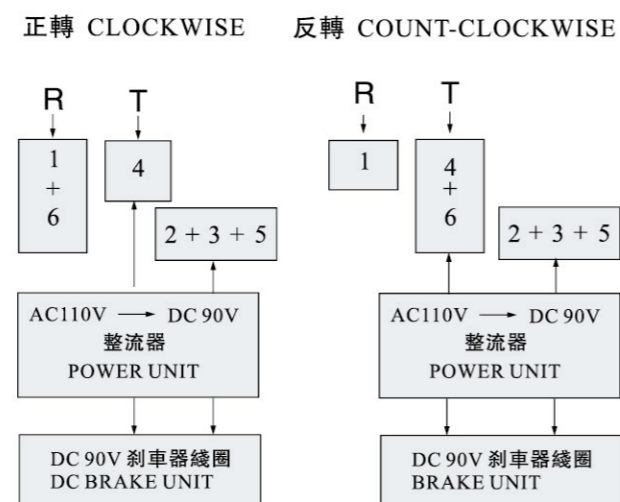
(b) 單相高壓 HIGH VOLTAGE-220V



(c) 單相低壓 110V 直流剎車器
LOW VOLTAGE 110V WITH DC BRAKE UNIT

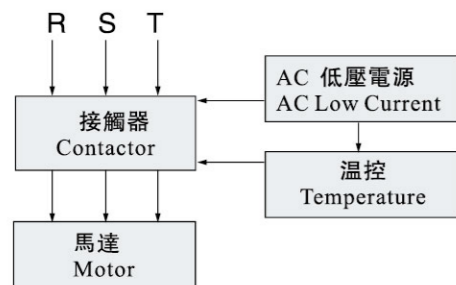


(d) 單相高壓 220V 直流剎車器
HIGH VOLTAGE 220V WITH DC BRAKE UNIT

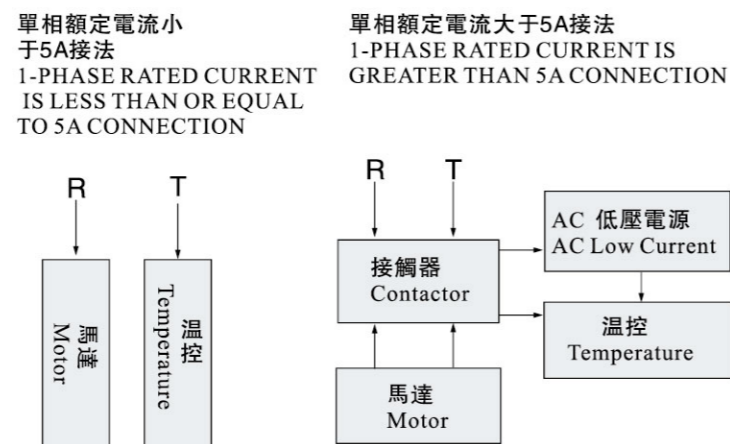


(3) 加溫控接線方式 (TEMPERATURE CONTROL WIRING)

(a) 三相馬達加溫控接線圖
3-PHASE THERMOSTAT WIRING DIAGRAM

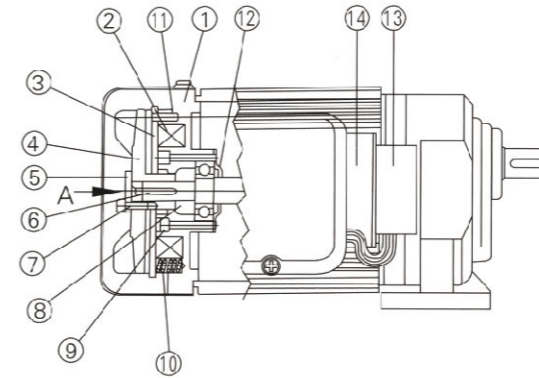


(b) 單相馬達加溫控接線圖
1-PHASE THERMOSTAT WIRING DIAGRAM



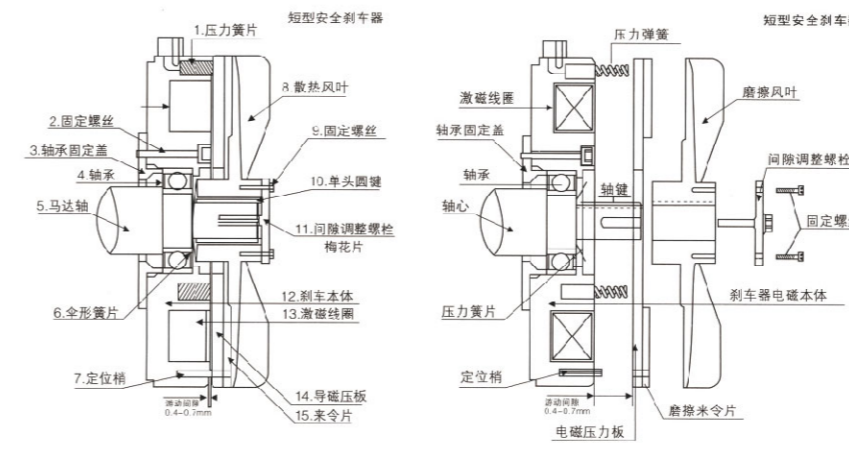
剎車裝配圖

Braking assembly drawing



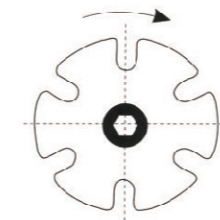
1. 剎車主體 Braking main body
2. 剎車激勵線圈 Braking excitation coil
3. 來令片 Lining
4. 散熱風葉 Radiator
5. 調整螺栓 Calibrating bolt
6. 單圓鍵 Single round parallel key
7. 固定螺絲 Set screws
8. 墊圈 Washer
9. 套筒螺絲 Telescopic screw
10. 壓縮彈簧 compression spring
11. 彈簧梢 Spring pin
12. 軸承蓋 Bearing cap
13. 整流器 Rectifier
14. 整流器鐵板 The iron plate rectifier

剎車零件分解圖 (BRAKE UNIT SECTION DIAGRAM)



1. 壓力彈簧 PRESSURE SPRING
2. 固定螺絲 FIXED SCREW
3. 軸承固定蓋 FIXED BEARING PLATE
4. 軸承 BEARING
5. 馬達軸 MOTOR SHAFT
6. 傘形黃簧片 DISC SPRING
7. 定位銷 FIXED PIN
8. 散熱風葉 FAN
9. 固定螺絲 FIXED SCREW
10. 固定鍵 KEY
11. 調整螺栓 GAP ADJUSTMENT BOLT
12. 煞車本體 BRAKE HOUSING
13. 激磁線圈 BRAKE COIL
14. 導磁壓板 FRICTION PLATE
15. 來令片 FRICTION BRAKE DISC

剎車間隙調整 (ADJUST BRAKE CLEARANCE)



1. 請先移除固定螺絲
PLEASE REMOVE TWO PIECES FIXED SCREWS IN ADVANCE.
2. 順時針調整一格，其間距縮小0.07-0.10mm。
EVERY SINGLE POSITION ADJUSTMENT, BRAKE CLEARANCE
WILL REDUCE 0.07-0.10mm

剎車間隙調整原因:

The reason of calibrating braking gap:

1. 每當使用一段時間剎車動作不正確時。
2. 至少每年需要調整剎車間隙一次。
3. 依使用的頻率多寡，可自行決定調整間隙的次數。
4. 請使用厚薄規調整剎車間隙在0.3-0.5mm之間。

1. When braking action is not right after using for some time.
2. Braking gap needs to be adjusted once a year at least.
3. The frequency of calibration gap can be determined automatically according to use frequency.
4. Please use thickness gauge to calibrate braking gap between 0.3-0.5mm.

間隙調整方法:

The way of gap calibration:

1. 打開馬達風蓋，拆掉調整螺栓上兩個固定螺絲。
2. 旋轉調整螺栓可調整剎車間隙。順時針---縮小間隙，逆時針---放大間隙，每等距調整約0.2mm。
3. 以厚薄規調整好間隙後，將調整螺栓上四個或六個孔之其中對角兩孔固定，將固定螺絲鎖緊即完成調整間隙動作，其所調整方法及所需間隙厚薄規為準。

1. Open wind cover of the motor and dismantle two fixed screws on calibration bolt.
2. Rotate and calibrate bolt to calibrate braking gap. Clockwiseshorten the gap, counterclockwise-enlarge the gap, with every isometry calibration of 0.2mm.
3. After the gap is calibrated with thickness gauge, the diagonal holes among four or six holes in calibration bolt are fixed, and fixed screws are fixed to complete gap calibration, and it refers to calibration method and gap determined by thickness gauge.

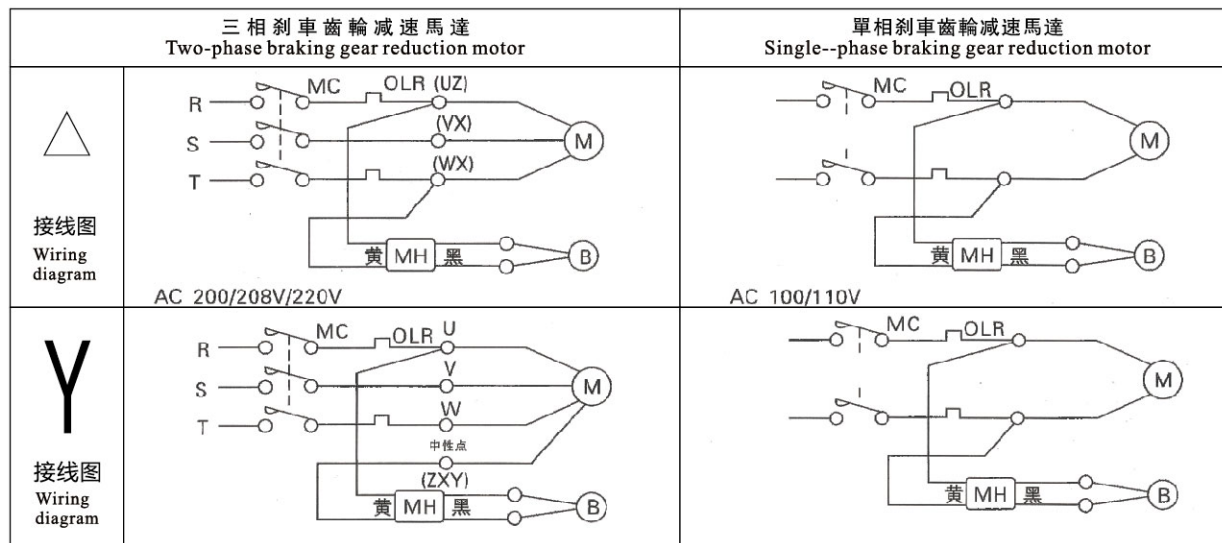
特長 Strong suits

- 斷電時動作.....無激磁作動制車，斷電時自動制車動作。
Action after power off.....without excitation action braking, with automatic braking action when power off
- 接線容易.....整流器裝于馬達外殼上，接交流電源。
Easy connection.....rectifier installed on the shell of motor, connecting AC power.
- 小型重量輕.....加裝制車所增加馬達長度極少，體積小，重量輕。
Small-size and lighter.....the length of motor increased from adding brake is very little, small volume, light weight.
- 壽命長.....制車來令片材質耐磨耗性佳，制車動作正確，調整方便。
Long service life.....the material of the lining has good endurance, with correct braking action, easy calibration.

制車規格標準 Braking specification standard

輸出電壓 Output voltage	三相制車齒輪減速馬達 Three-phase braking gear reduction motor	單相制車齒輪減速馬達 Single-phase braking gear reduction motor
輸出電壓 Discharge voltage	AC200/208/220V-50/60HZ	AC100/100/-50/60HZ
輸出電壓 Output voltage	DC90/108V	DC90/180V
周圍環境溫度 Ambient temperature	-10°C~+40°C	
絕緣耐壓 Insulated and pressure resistance	AC1500V	

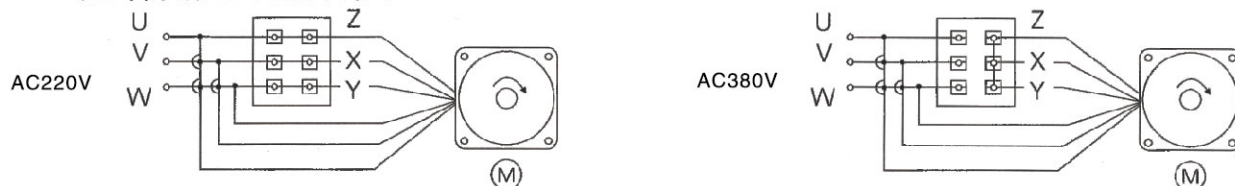
接線圖



- M----馬達 Motor B----制車 Brake
- MH----整流器 Rectifier
- MC----電磁接觸器 Electromagnetic connector
- OLR----過負荷繼電器 Overload relay

注：制車馬達接變頻器使用，制車線圈可能產生吸合不良，制車線圈可直接銘牌標注的市電。
Note: braking motor is connected to transducer, and braking coil may generate bad actuation, and braking coil can be marked directly.

三相齒輪減速馬達接線圖 Three-phase gear reduction motor wiring diagram



單相齒輪減速馬達接線圖 Single-phase gear reduction motor wiring diagram



4-10-1 交流制車器規格 (FUNCTION FOR BRAKE UNIT)

4-10 制車器性能說明 (AC BRAKE UNIT SPECIFICATION)

輸出馬力 CAPACITY (HP)	允許最高轉速 PERMIT MAX RPM	制車制動力 TORQUE (KG-M)	制車間隙 CLEAR- -ANCE (mm)	來令片 BRAKE DISC		重量 WEIGHT (KG)
				外徑O/D	內徑I/D	
1/4HP4P	4000	0.15-0.30	0.4-1.2	83	48	1.6
1/2HP4P-1/4HP6P	4000	0.15-0.40	0.4-1.2	112	65	4.0
1HP4P-1/2HP6P	4000	0.25-0.70	0.5-1.3	130	68	4.3
2HP4P-1HP6P	3600	0.42-1.50	0.5-1.4	140	78	5.8
3HP4P-2HP6P	3600	0.92-2.00	0.5-1.4	150	78	7.0
5HP4P-3HP6P	3600	1.80-3.50	0.5-1.5	170	86	9.0
7.5HP4P-5HP6P	3600	2.80-5.50	0.5-1.7	170	86	12.5
10HP4P-7.5HP6P	3400	4.00-7.00	0.6-1.7	190	105	15.0
15HP4P-10HP6P	3400	6.00-11.00	0.6-1.7	200	110	23.6
20HP4P-15HP6P	3200	8.00-13.00	0.6-1.8	240	125	31.5
25HP4P-20HP6P	2600	15.00-23.00	0.8-2.0	300	145	54.5
30HP4P-25HP6P	2600	15.00-23.00	0.8-2.0	300	145	54.5
40HP4P-30HP6P	2600	15.00-23.00	0.8-2.0	300	145	54.5

**備注
REMARK**

- 1、AC制車器安裝尺寸較長于原有標準馬達
AC BRAKE UNIT LENGTH LONGER THAN ORIGINAL STANDARD MOTOR
- 2、適用電壓 AVAILABLE VOLTAGE
220V、380V、400V、415V、440V、460V
- 3、可接受特殊訂制AC制車器及專用制車機型
AVAILABLE FOR SPECIAL BRAKE DESIGN
- 4、BA07-BA40為復板式制車器
DOUBLE BRAKE DISC SYSTEM FOR 7.5HP4P-40HP4P

4-10-2 直流安全式制車器規格 (DC BRAKE UNIT SPECIFICATION)

輸出馬力 CAPACITY (HP)	制車制動力 TORQUE (KG-M)	制車間隙 CLEAR- -ANCE (mm)	制車時間 BRAKE (SEC)	釋放時間 BELEASE (SEC)	制車線圈 BRAKE COIL			重量 WEIGHT (KG)
					電壓 VOLTAGE (DC-V)	電流 AMP (A)	阻抗 OHM(Ω)	
1/4HP4P	0.20	0.2-0.60	0.22	0.12	95±10%	0.17	565	3.5
1/2HP4P	0.40	0.2-0.60	0.24	0.13	95±10%	0.28	336	4.0
1HP4P	0.80	0.3-0.65	0.22	0.12	95±10%	0.41	233	5.0
2HP4P	1.50	0.3-0.65	0.28	0.15	95±10%	0.57	167	6.0
3HP4P	2.20	0.4-0.70	0.28	0.18	95±10%	0.73	130	8.0
5HP4P	4.50	0.4-0.70	0.28	0.18	95±10%	0.73	130	10.0
7.5HP4P	5.60	0.5-0.90	0.38	0.21	95±10%	1.02	93	12.5

**備注
REMARK**

- 1、直流制車器安裝尺寸相同于原有標準馬達
DC BRAKE UNIT LENGTH SAME AS ORIGINAL STANDARD MOTOR
- 2、採用非石棉制車來令片材質
ADOPT MATERIAL WITH NON-ASBESTOS BRAKE DISC
- 3、適用電壓 AVAILABLE VOLTAGE
220V、380V、400V、415V、440V、460V
- 4、制車電源為 DC90V BRAKE COIL VOLTAGE: DC90V
- 5、選用配件 OPTIONAL DESIGN
a、可加手動釋放制車裝置
AVAILABLE FOR MANUAL RELEASE BRAKE SYSTEM

