

調速電磁制動電機
SPEED REGULATING
ELECTROMAGNETIC BRAKE MOTOR
15W-250W

就是耐用！

德國技術 傳動未來

GERMAN TECHNOLOGY DRIVE IN
THE FUTURE

調速電磁制動電機

Speed regulating electromagnetic brake motor

15w
70*70mm



● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output W	電壓 voltage V	頻率 frequency Hz	電流 current A	起動轉矩 Starting torque mN·m	額定轉矩 Rated torque mN·m	額定轉速 Rated speed r/min	電容量/耐壓 Capacitance/ pressure endurance μF/AC
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor								
3IK15RA-AM	3IK15RGN-AM	15	單相110	50/60	0.36	95	118	1250/1550	5/250v
3IK15RA-CM	3IK15RGN-CM	15	單相220	50/60	0.16	95	118	1250/1550	1.2/450v



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180

● 減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N · m/lower segment: kgfcm

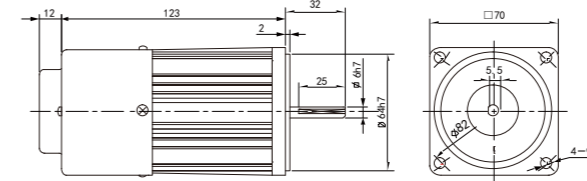
型號 Model	轉速 speed r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	40	60	75	90	100	120	150	180	250
3IK15GN-□	Kg/cm	3.20	3.90	5.40	6.50	8.10	9.70	10.80	13.50	16.20	19.40	19.40	24.40	29.10	34.90	38.80	43.60	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
	N.m	0.31	0.38	0.53	0.64	0.79	0.95	1.06	1.32	1.59	1.90	1.90	2.37	2.85	3.42	3.81	4.28	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

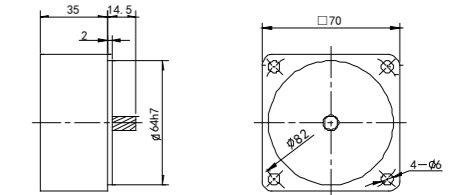
- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- □色表示與電動機同一方向運轉，其它則為相反方向
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速（50HZ: 1350r/min 60HZ:1620r/min）為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2-20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機
speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.

尺寸圖 Size drawing

■ 圓軸電機 Circular Shaft Motor 3IK15RA-CM

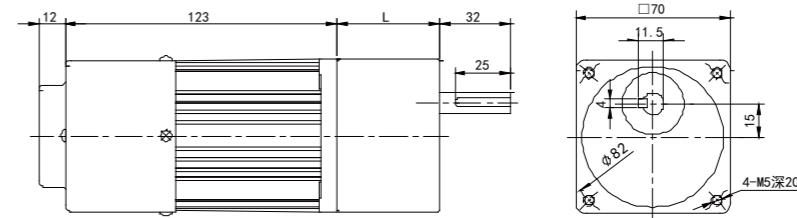


■ 中間減速機 Intermediate Speed Reducer 3GN10K



■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor

3IK15RGN-CM+3GN□K L=35.5 3-15
L=46.5 18-180



調速電磁制動電機

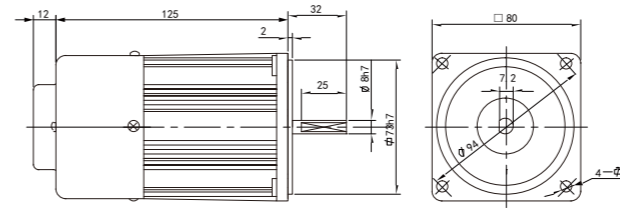
Speed regulating electromagnetic brake motor

25w
80*80mm

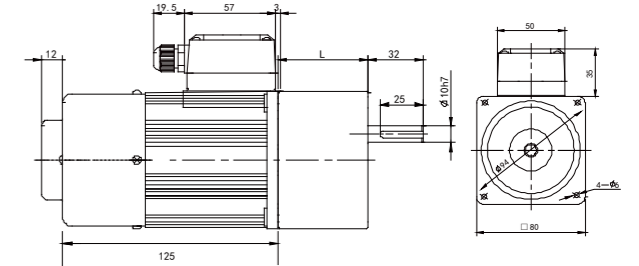


尺寸圖 Size drawing

圓軸電機 Circular Shaft Motor 4IK25RA-CM



齒軸帶接線盒 Motor With Terminal Box 4IK25RGN-CMT+4GN□K L=38.5 3-18 L=52 20-180

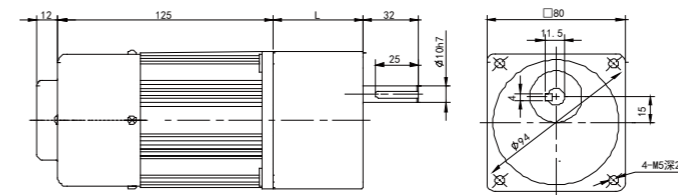


電機特性 Motor characteristics

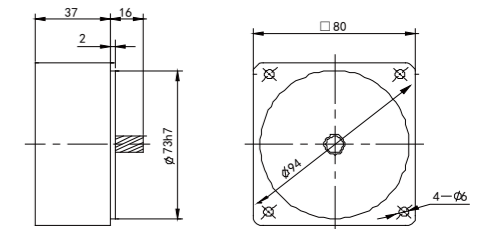
規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output	電壓 voltage	頻率 frequency	電流 current	起動轉矩 Starting torque	額定轉矩 Rated torque	額定轉速 Rated speed	電容量/耐壓 Capacitance/ pressure endurance
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor	W	V	Hz	A	mN·m	mN·m	r/min	μF/AC
4IK25RA-AM	4IK25RGN-AM	25	單相110	50/60	0.52	150	205	1300/1600	6/250V
4IK25RA-CM	4IK25RGN-CM	25	單相220	50/60	0.25	150	205	1300/1600	1.5/450V

調速電磁制動電機 Speed Control Electromagnetic Brake Motor 4IK25RGN-CM+4GN□K L=38.5 3-18 L=52 20-180



中間減速機 Intermediate Speed Reducer 4GN10K



middle reducer gearbox
標準減速箱
速比: 1: 3~180

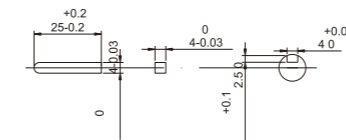


middle real axis
直角中空減速箱
速比: 1: 10~180



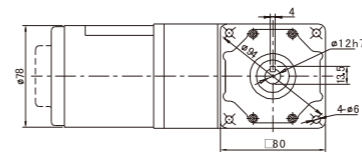
quill shaft
直角中空減速箱
速比: 1: 10~180

鍵 Key



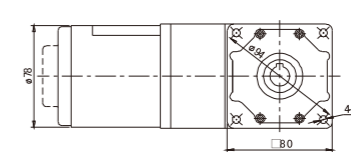
電機+中實軸

Electrical machinery+middle real axis



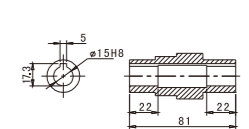
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



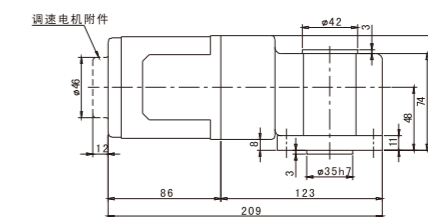
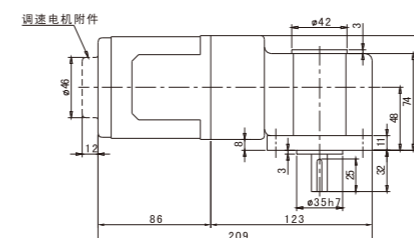
減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N·m/lower segment: kgfcm

型號 Model	轉速 speed r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	250
4IK25GN-□	Kg/cm	3.40	4.10	5.70	6.80	8.50	10.20	11.30	14.20	17.00	20.40	20.40	25.60	30.70	36.80	40.90	46.20	55.40	69.20	80.00	80.00	80.00	80.00	80.00	80.00
	N.m	0.33	0.40	0.56	0.67	0.83	1.00	1.11	1.39	1.67	2.00	2.00	2.51	3.01	3.61	4.01	4.53	5.43	6.79	7.84	7.84	7.84	7.84	7.84	7.84

裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型。
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向。
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速（50HZ: 1350r/min 60HZ:1620r/min）為基準除以減速比而算出的數值。
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實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機



調速電磁制動電機

Speed regulating electromagnetic brake motor

40w
90*90mm



● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output W	電壓 voltage V	頻率 frequency Hz	電流 current A	起動轉矩 Starting torque mN·m	額定轉矩 Rated torque mN·m	額定轉速 Rated speed r/min	電容量/耐壓 Capacitance/ pressure endurance μF/AC
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor								
5IK40RA-AM	5IK40RGN-AM	40	單相 110	50/60	0.65	270	300	1300/1600	10/250V
5IK40RA-CM	5IK40RGN-CM	40	單相 220	50/60	0.33	270	300	1300/1600	2.5/450V



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中空減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

● 減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N·m/lower segment: kgfcm

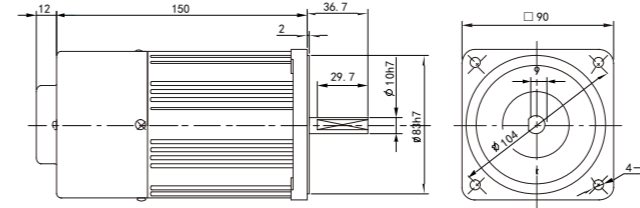
型號 Model	轉速 speed r/min	減速比 Reduction ratio																						
		450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11		
5IK40GN-□	Kg/cm	8.30	9.90	13.80	16.50	20.70	24.80	27.50	34.40	41.30	49.60	62.10	74.50	89.40	99.30	100.00	100.00	100.00	100.00	100.00	100.00	150	180	250
	N.m	0.81	0.97	1.35	1.62	2.03	2.43	2.70	3.37	4.05	4.86	4.86	6.09	7.30	8.76	9.73	9.80	9.80	9.80	9.80	9.80	100.00	100.00	100.00

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

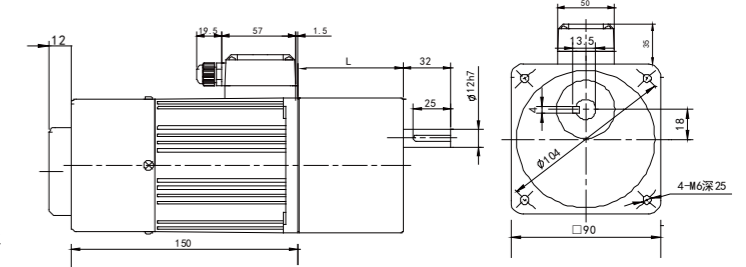
- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向
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The actual speed will vary with the load size than the value shown by the reduction of about 2~20% its desirable to install the intermediate speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機

尺寸圖 Size drawing

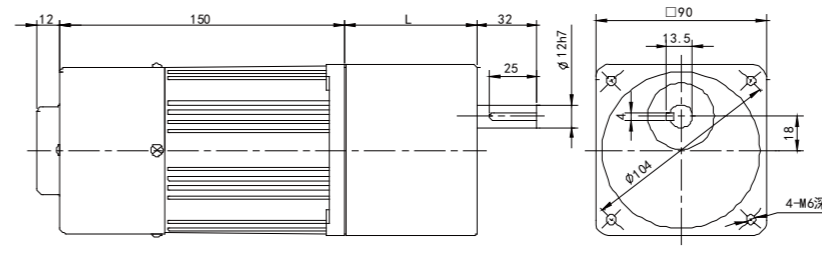
■ 圓軸電機 Circular Shaft Motor 5IK40RA-CM



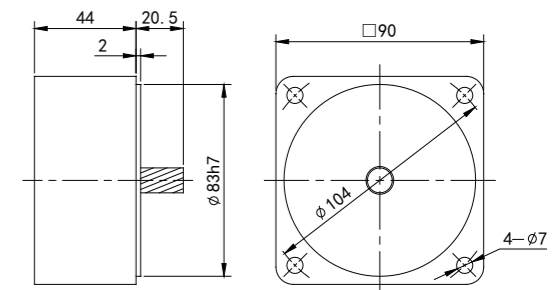
■ 齒軸帶接線盒 Motor With Terminal Box 5IK40RGN-CMT+5GN□K



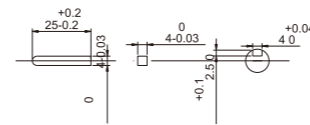
■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK40RGN-CM+5GN□K



■ 中間減速機 Intermediate Speed Reducer 5GN10K

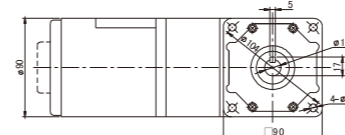


■ 鍵 Key



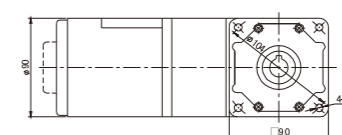
電機+中實軸

Electrical machinery+middle real axis



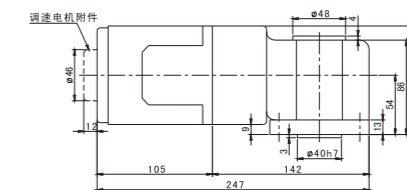
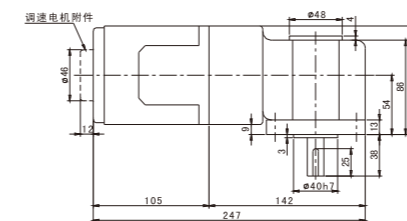
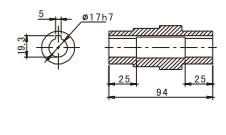
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



定速電機

調速電機

定速電磁制動電機

調速電磁制動電機

中型齒輪減速電機

行星減速機

鋁合金刀減速機

調速電磁制動電機

Speed regulating electromagnetic brake motor

60w
90*90mm



● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output	電壓 voltage	頻率 frequency	電流 current	起動轉矩 Starting torque	額定轉矩 Rated torque	額定轉速 Rated speed	電容量/耐壓 Capacitance/pressure endurance
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor	W	V	Hz	A	mN·m	mN·m	r/min	μF/AC
5IK60RA-AM	5IK60RGU-AM	60	單相110	50/60	0.90	397	450	1300/1600	14/250V
5IK40RA-CM	5IK60RGU-CM	60	單相220	50/60	0.52	397	450	1300/1600	3.5/450V



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中實減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

● 減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N·m/lower segment: kgfcm

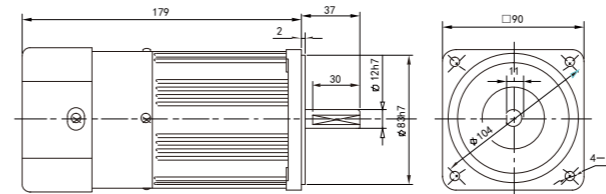
型號 Model	轉速 speed r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	250
5IK60GN-□	Kg/cm	12.20	14.60	20.30	24.30	30.40	36.50	40.50	45.60	54.80	65.70	73.00	82.50	99.00	119.00	132.00	165.00	198.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00
	N.m	1.20	1.43	1.99	2.38	2.99	3.58	3.97	4.47	5.37	6.44	7.15	8.09	9.70	11.66	12.94	16.17	19.40	19.60	19.60	19.60	19.60	19.60	19.60	19.60

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

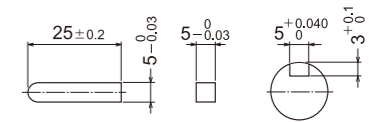
- 減速機品名中的□為減速比的數值，電動機品名中的□為電機電壓類型。
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向。
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速（50HZ: 1350r/min 60HZ:1620r/min）為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機

尺寸圖 Size drawing

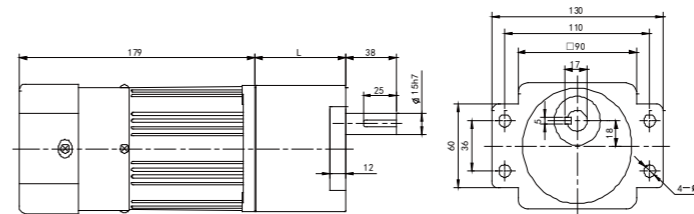
■ 圓軸電機 Circular Shaft Motor 5IK60RA-CMF



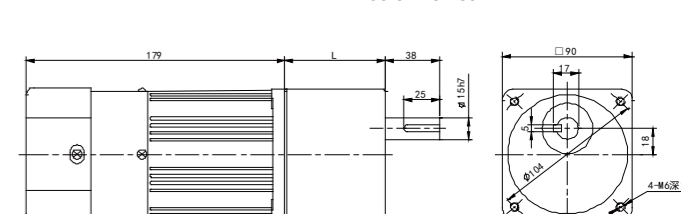
■ 鍵 Key (60W.90W.120W.140W.160W.180W.200W.250W共用)



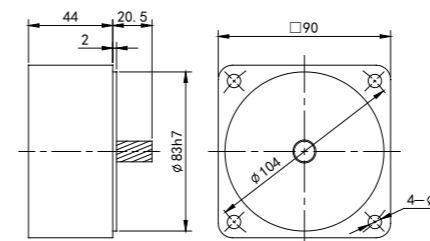
■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK60RGU-CFM+5GU□K L=47.3 3-15 L=69.3 18-180



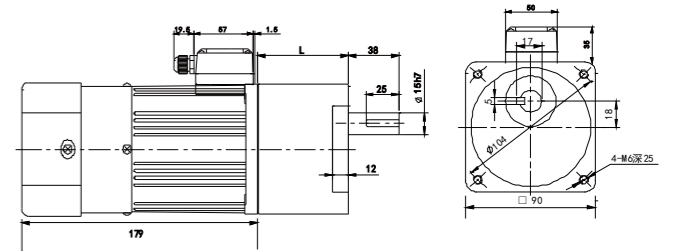
■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK60RGU-CFM+5GU□KB L=47.3 3-15 L=69.3 18-180



■ 中間減速機 Intermediate Speed Reducer 5GN10K (60W.90W.120W共用)

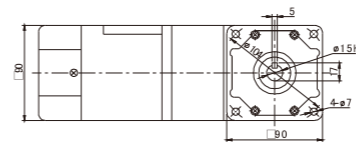


■ 齒軸帶接線盒 Motor With Terminal Box 5IK60RGU-CMFT+5GU□KB L=47.3 3-15 L=69.3 18-180



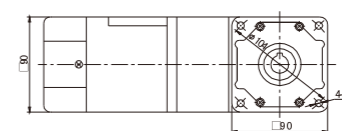
電機+中實軸

Electrical machinery+middle real axis



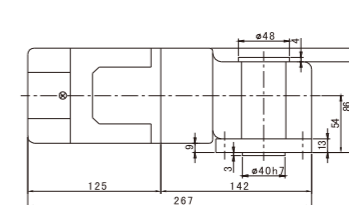
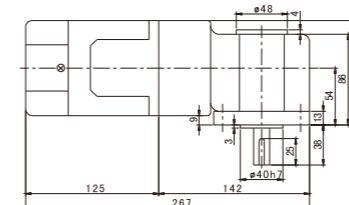
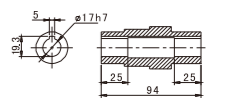
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



調速電磁制動電機

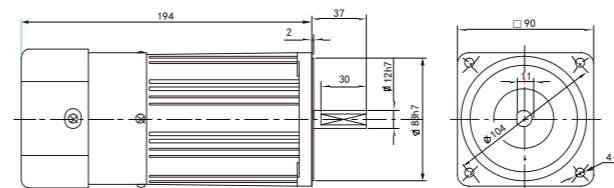
Speed regulating electromagnetic brake motor

90w
90*90mm

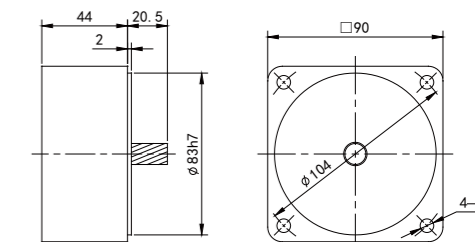


尺寸圖 Size drawing

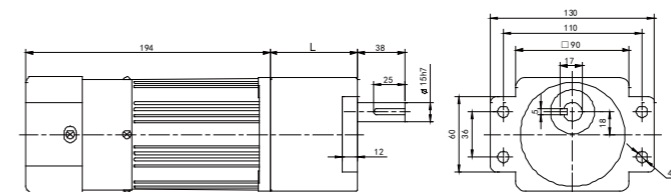
圓軸電機 Circular Shaft Motor 5IK90RA-CMF



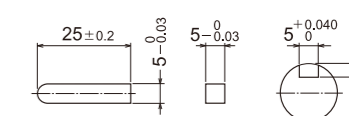
中間減速機 Intermediate Speed Reducer 5GN10 K (60W.90W.120W共用)



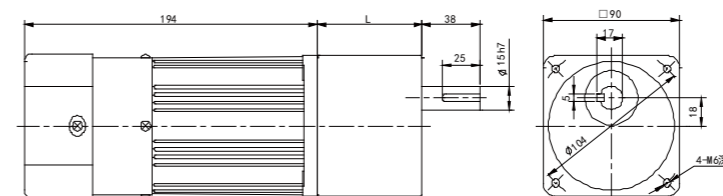
調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK90RGU-CFM+5GU□K L=47.3 3-15 L=69.3 18-180



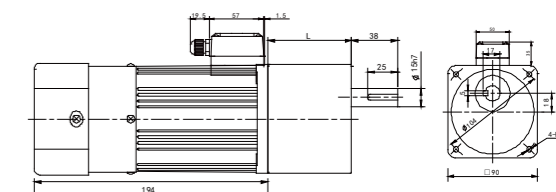
鍵 Key (60W.90W.120W.140W.160W.180W.200W.250W共用)



調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK90RGU-CFM+5GU□KB L=47.3 3-15 L=69.3 18-180



齒軸帶接線盒 Motor With Terminal Box 5IK90RGU-CMFT+5GU□KB L=47.3 3-15 L=69.3 18-180



●電機特性 Motor characteristics

規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output W	電壓 voltage V	頻率 frequency Hz	電流 current A	起動轉矩 Starting torque mN·m	額定轉矩 Rated torque mN·m	額定轉速 Rated speed r/min	電容量/耐壓 Capacitance/ pressure endurance μF/AC
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor								
5IK90RA-AMF	5IK90RGU-AMF	90	單相110	50/60	1.2	580	670	1300/1600	20/250V
5IK90RA-CMF	5IK90RGU-CMF	90	單相220	50/60	0.5	580	670	1300/1600	5.0/450V



middle reducer gearbox
標準減速箱
速比: 1: 3~180



middle real axis
直角中實減速箱
速比: 1: 10~180



quill shaft
直角中空減速箱
速比: 1: 10~180

●減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N · m/lower segment: kgfcm

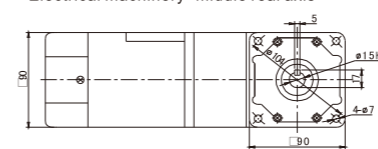
型號 Model	轉速 speed r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	250
5IK90GN-□	Kg/cm	15.82	18.98	26.33	31.63	39.49	47.35	52.35	59.29	71.22	85.41	94.90	107.14	128.57	154.08	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00
	N.m	1.55	1.86	2.58	3.1	3.87	4.64	5.13	5.81	6.98	8.37	9.3	10.5	12.6	15.1	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6

裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速 (50HZ: 1350r/min 60HZ:1620r/min) 為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機

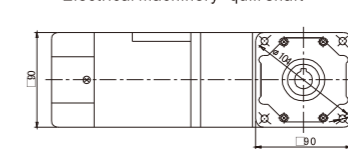
電機+中實軸

Electrical machinery+middle real axis



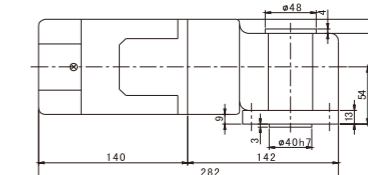
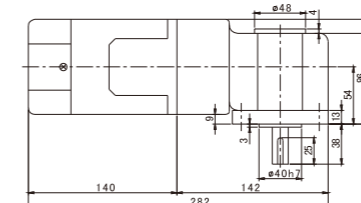
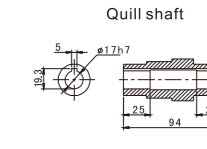
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



調速電磁制動電機

Speed regulating electromagnetic brake motor

120w
90*90mm



●電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output W	電壓 voltage V	頻率 frequency Hz	電流 current A	起動轉矩 Starting torque mN·m	額定轉矩 Rated torque mN·m	額定轉速 Rated speed r/min	電容量/耐壓 Capacitance/ pressure endurance μF/AC
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor								
5IK120RA-AMF	5IK120RGU-AMF	120	單相110	50/60	1.68	650	800	1300/1600	24/250v
5IK120RA-CMF	5IK120RGU-CMF	120	單相220	50/60	0.81	650	800	1300/1600	6.0/450v



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中實減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

●減速機特性 Motor characteristics

◇ 50Hz

型號 Model	轉速 r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	250
5IK120GN-□	Kg/cm	23.20	27.80	38.70	46.40	58.00	69.60	77.40	87.00	104.00	125.00	139.00	156.00	188.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00
	N.m	2.28	2.73	3.79	4.55	5.69	6.83	7.59	8.53	10.24	12.29	13.65	15.36	18.43	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61

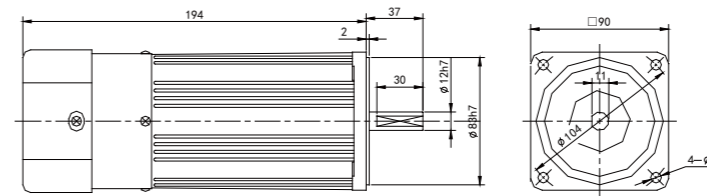
單位=上段: N.m/下段: kgfcm
Unit = upper segment: N·m/lower segment: kgfcm

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

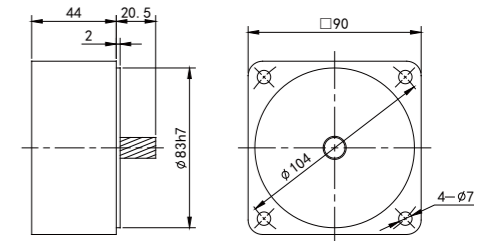
- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型。
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向。
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速 (50HZ: 1350r/min 60HZ:1620r/min) 為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2~20% its desirable to install the intermediate
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機
speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.

尺寸圖 Size drawing

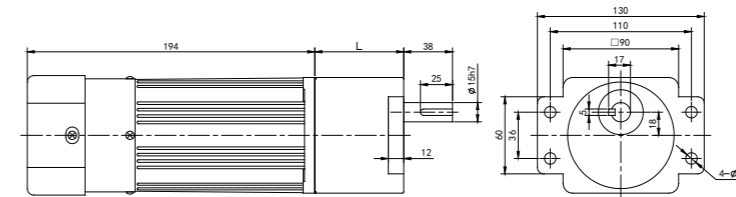
■ 圓軸電機 Circular Shaft Motor 5IK120RA-CMF



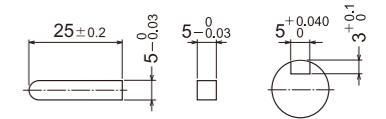
■ 中間減速機 Intermediate Speed Reducer 5GN10K (60W.90W.120W共用)



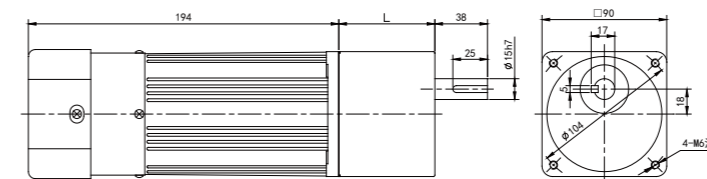
■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK120RGU-CFM+5GU□K L=47.3 3-15 L=69.3 18-180



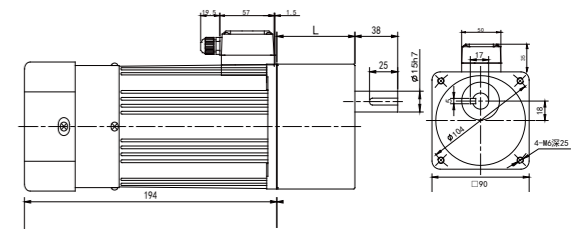
■ 鍵 Key (60W.90W.120W.140W.160W.180W.200W.250W共用)



■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK120RGU-CFM+5GU□KB L=47.3 3-15 L=69.3 18-180

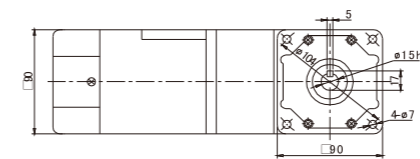


■ 齒軸帶接線盒 Motor With Terminal Box 5IK120RGU-CMFT+5GU□KB L=47.3 3-15 L=69.3 18-180



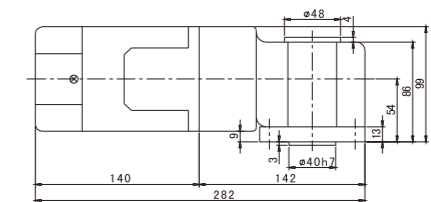
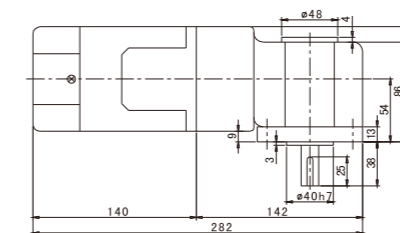
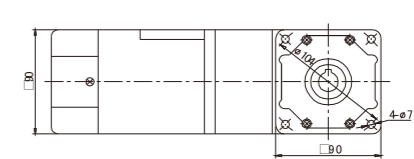
電機+中實軸

Electrical machinery+middle real axis



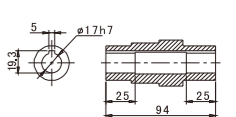
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



調速電磁制動電機

Speed regulating electromagnetic brake motor

140w
90*90mm



● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output W	電壓 voltage V	頻率 frequency Hz	電流 current A	起動轉矩 Starting torque mN·m	額定轉矩 Rated torque mN·m	額定轉速 Rated speed r/min	電容量/耐壓 Capacitance/ pressure endurance μF/AC
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor								
5IK140A-AMF	5IK140GU-AMF	140	單相110	50/60	2.35	900	1000	1350/1650	30/250V
5IK140A-CMF	5IK140GU-CMF	140	單相220	50/60	2.35	900	1000	1350/1650	7.0/450V



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中實減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

● 減速機特性 Motor characteristics

◇ 50Hz

單位=上段: N.m/下段: kgfcm

Unit = upper segment: N · m/lower segment: kgfcm

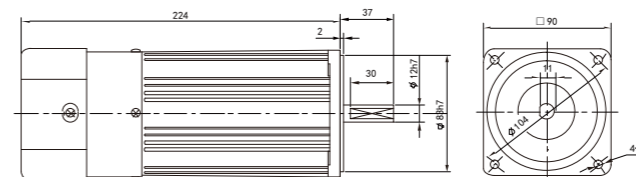
型號 Model	轉速 speed r/min 減速比 Reduction ratio	轉速 speed r/min																							
		450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
5IK140GN-□	Kg/cm	24.50	29.10	40.00	47.70	59.30	70.90	78.70	88.30	105.30	126.30	140.30	157.30	189.30	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00
	N.m	2.41	2.2.86	3.92	4.68	5.82	6.96	7.72	8.66	10.37	12.42	13.78	15.49	18.56	19.74	19.74	19.74	19.74	19.74	19.74	19.74	19.74	19.74	19.74	19.74

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

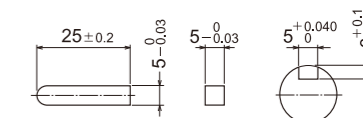
- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速（50HZ: 1350r/min 60HZ:1620r/min）為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機

尺寸圖 Size drawing

■ 圓軸電機 Circular Shaft Motor 5IK140RA-CMF

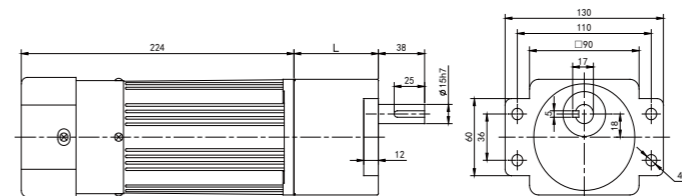


■ 鍵 Key (60W.90W.120W.140W.160W.180W.200W.250W共用)



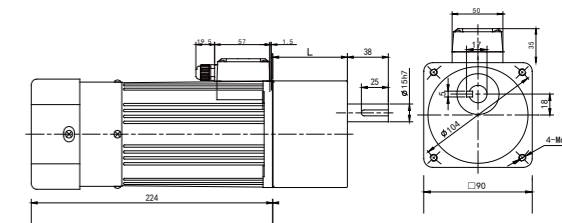
■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK140RGU-CFM+5GU□K

L=47.3 3-15
L=69.3 18-180



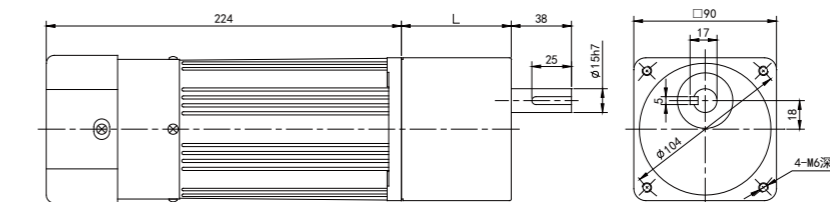
■ 齒軸帶接線盒 Motor With Terminal Box 5IK140RGU-CMFT+5GU□KB

L=47.3 3-15
L=69.3 18-180

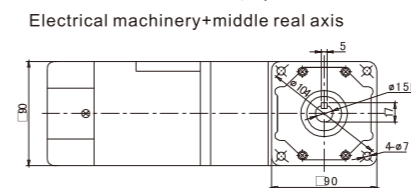


■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 5IK140RGU-CFM+5GU□KB

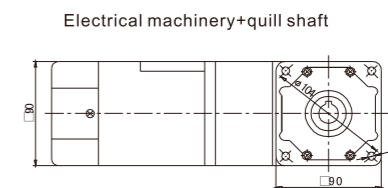
L=47.3 3-15
L=69.3 18-180



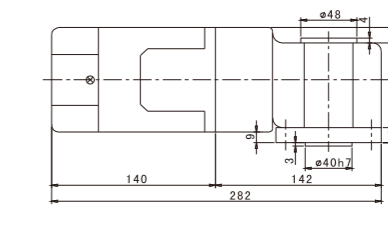
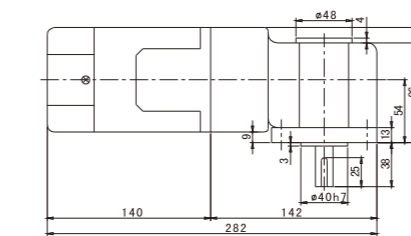
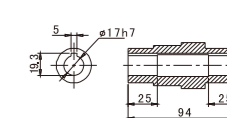
電機+中實軸 Electrical machinery+middle real axis



電機+中空軸 Electrical machinery+quill shaft



中空軸 Quill shaft



調速電磁制動電機

Speed regulating electromagnetic brake motor

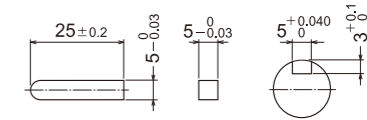
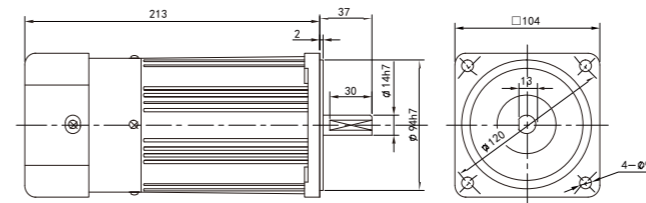
160w
104*104mm



尺寸圖 Size drawing

■ 圓軸電機 Circular Shaft Motor 6IK160RA-CMF

■ 鍵 Key (60W.90W.120W.140W.160W. 180W.200W.250W共用)



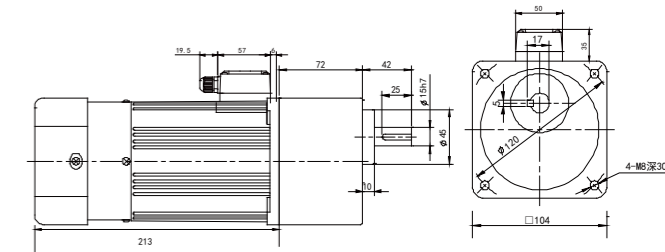
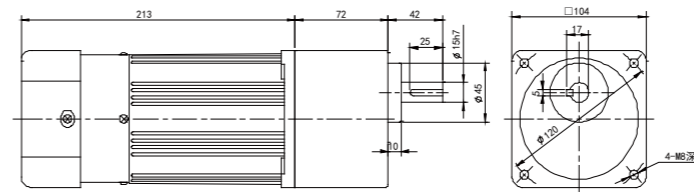
● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output	電壓 voltage	頻率 frequency	電流 current	起動轉矩 Starting torque	額定轉矩 Rated torque	額定轉速 Rated speed	電容量/耐壓 Capacitance/ pressure endurance
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor	W	V	Hz	A	mN·m	mN·m	r/min	μF/AC
6IK160RA-AMF	5IK160RGU-AMF	160	單相110	50/60	2.4	950	1260	1350	32/250V
6IK160RA-CMF	5IK160RGU-CMF	160	單相220	50/60	1.25	950	1260	1350	8.0/450V

■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 6IK160RGU-CFM+6GU (3-180) K

■ 齒軸帶接線盒 Motor With Terminal Box 6IK160RGU-CMFT+6GU (3-180) K



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中實減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

● 減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N · m/lower segment: kgfcm

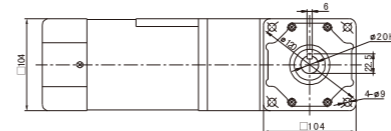
型號 Model	轉速 speed r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	250
6IK160GN-□	Kg/cm	24.1	28.8	40.1	48.1	60.1	72.1	81.3	90.3	108	130	147	163	196	235	279	327	392	400	400	400	400	400	400	400
	N.m	2.36	2.83	3.93	4.71	5.89	7.07	7.96	8.85	10.6	12.7	14.35	16.0	19.2	23.0	27.6	32.0	38.4	39.2	39.2	39.2	39.2	39.2	39.2	39.2

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- □色表示與電動機同一方向運轉，其它則為相反方向
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速 (50HZ: 1350r/min 60HZ:1620r/min) 為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2-20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機

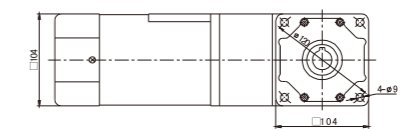
電機+中實軸

Electrical machinery+middle real axis



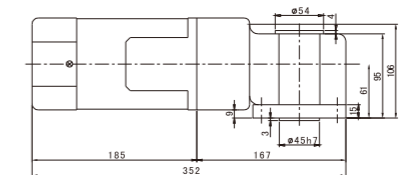
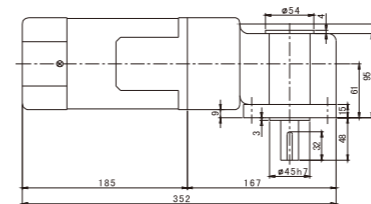
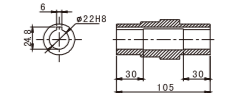
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



調速電磁制動電機

Speed regulating electromagnetic brake motor

180w
104*104mm



● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output W	電壓 voltage V	頻率 frequency Hz	電流 current A	起動轉矩 Starting torque mN·m	額定轉矩 Rated torque mN·m	額定轉速 Rated speed r/min	電容量/耐壓 Capacitance/ pressure endurance μF/AC
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor								
6IK180RA-AMF	6IK180RGU-AMF	180	單相110	50/60	3.0	1020	1300	1350/1650	36/250V
6IK180RA-CMF	6IK180RGU-CMF	180	單相220	50/60	1.3	1020	1300	1350/1650	9.0/450V



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中實減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

● 減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N · m/lower segment: kgfcm

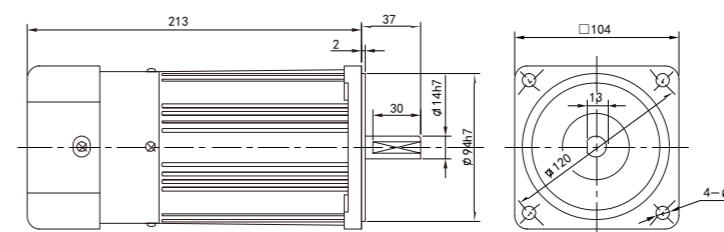
型號 Model	轉速speed r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	250
6IK180GN-□	Kg/cm	30	36.02	50.00	60.00	74.59	90.00	104.08	120.41	144.90	172.45	202.04	231.63	277.55	317.35	369.39	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
	N.m	2.94	3.53	4.9	5.88	7.31	8.82	10.2	11.8	14.2	16.9	19.8	22.7	27.2	31.1	36.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

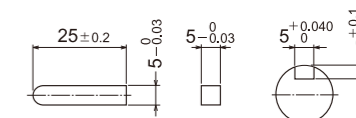
- 減速機品名的□中為減速比的數值，電動機品名的□為電機電壓類型
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速（50HZ: 1350r/min 60HZ:1620r/min）為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2~20% its desirable to install the intermediate
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機
speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.

尺寸圖 Size drawing

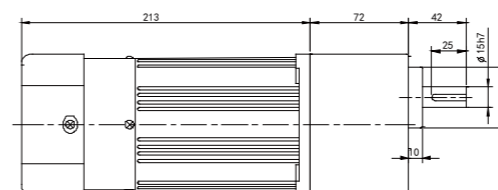
■ 圓軸電機 Circular Shaft Motor 6IK180RA-CMF



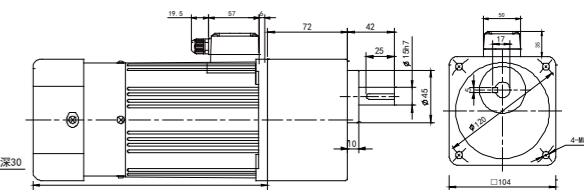
■ 鍵 Key (60W.90W.120W.140W.160W. 180W.200W.250W共用)



■ 調數電磁制動電機 Speed Control Electromagnetic Brake Motor 6IK180RGU-CFM+6GU (3-180) K

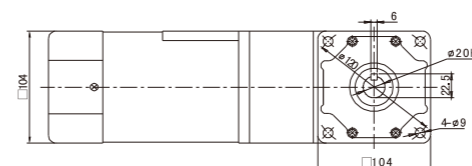


■ 齒軸帶接線盒 Motor With Terminal Box 6IK180RGU-CMFT+6GU (3-180) K



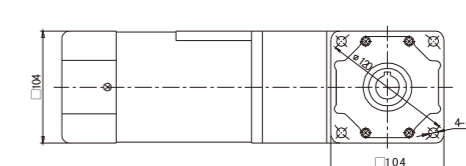
電機+中實軸

Electrical machinery+middle real axis



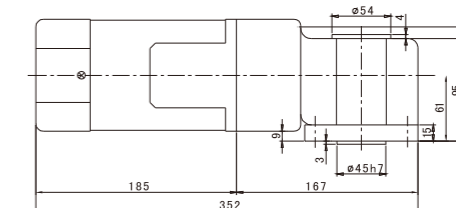
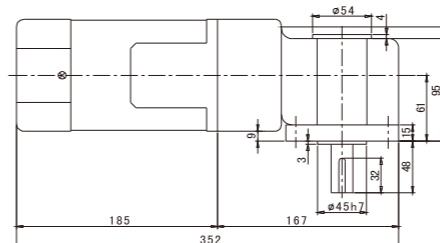
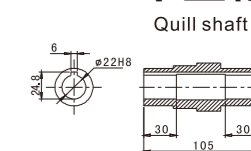
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



調速電磁制動電機

Speed regulating electromagnetic brake motor

200w
104*104mm



● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output	電壓 voltage	頻率 frequency	電流 current	起動轉矩 Starting torque	額定轉矩 Rated torque	額定轉速 Rated speed	電容量/耐壓 Capacitance/ pressure endurance
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor	W	V	Hz	A	mN·m	mN·m	r/min	μF/AC
6IK200RA-AMF	6IK200RGU-AMF	200	單相110	50/60	3.2	1100	1470	1350/1650	40/250V
6IK200RA-CMF	6IK200RGU-CMF	200	單相220	50/60	1.6	1100	1470	1350/1650	10/450V



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中實減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

● 減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm
Unit = upper segment: N·m/lower segment: kgfcm

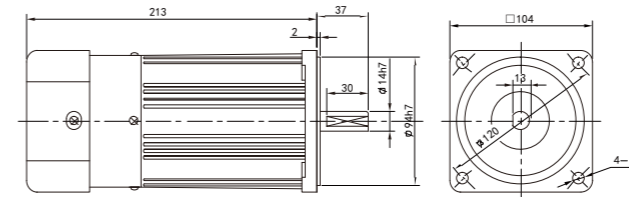
型號 Model	轉速 speed r/min	減速比 Reduction ratio																							
		450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
6IK200GN-□	Kg/cm	35.2	42.3	58.8	70.6	88.2	106	126	147	176	212	253	294	353	400	400	400	400	400	400	400	400	400	400	400
	N.m	3.52	4.23	5.88	7.06	8.82	10.6	12.6	14.7	17.6	21.2	25.3	29.4	35.3	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

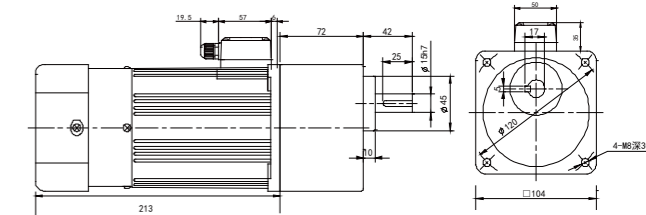
- 減速機品名的□中為減速比的數值，電動機品名為電機電壓類型
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速 (50HZ: 1350r/min 60HZ: 1620r/min) 為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機

尺寸圖 Size drawing

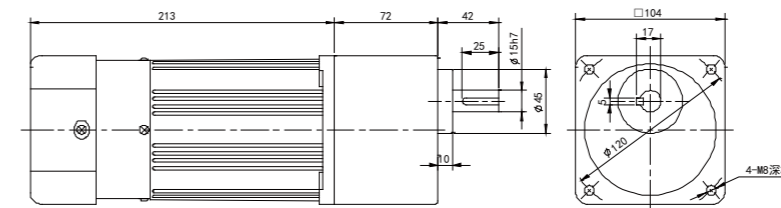
■ 圓軸電機 Circular Shaft Motor 6IK200RA-CMF



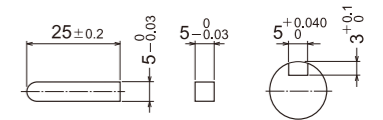
■ 齒軸帶接線盒 Motor With Terminal Box 6IK200RGU-CMFT+6GU (3-180) K



■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 6IK200RGU-CFM+6GU (3-180) K

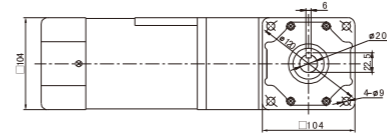


■ 鍵 Key (60W.90W.120W.140W.160W. 180W.200W.250W共用)



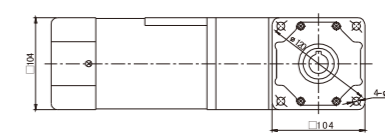
電機+中實軸

Electrical machinery+middle real axis



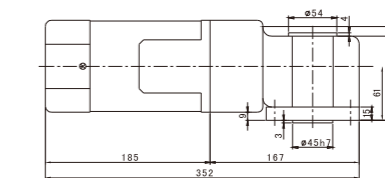
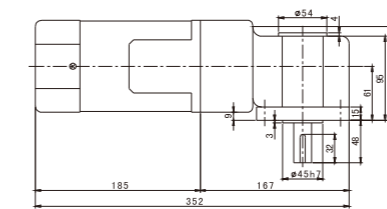
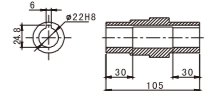
電機+中空軸

Electrical machinery+quill shaft



中空軸

Quill shaft



調速電磁制動電機

Speed regulating electromagnetic brake motor

250w
104*104mm



● 電機特性 Motor characteristics

■ 規格 連續額定 Specifications Continuous Rated

電機型號 Motor model		出力 output	電壓 voltage	頻率 frequency	電流 current	起動轉矩 Starting torque	額定轉矩 Rated torque	額定轉速 Rated speed	電容量/耐壓 Capacitance/ pressure endurance
圓軸電機 Circular shaft motor	齒軸電機 Gear shaft motor	W	V	Hz	A	mN·m	mN·m	r/min	μF/AC
6IK250RA-AMF	6IK250RGU-AMF	250	單相110	50/60	3.5	1200	1790	1350/1600	48/250V
6IK250RA-CMF	6IK250RGU-CMF	250	單相220	50/60	1.8	1200	1790	1350/1600	12/450V



middle reducer gearbox
■ 標準減速箱
速比: 1: 3~180



middle real axis
■ 直角中空減速箱
速比: 1: 10~180



quill shaft
■ 直角中空減速箱
速比: 1: 10~180

● 減速機特性 Motor characteristics

單位=上段: N.m/下段: kgfcm

Unit = upper segment: N · m/lower segment: kgfcm

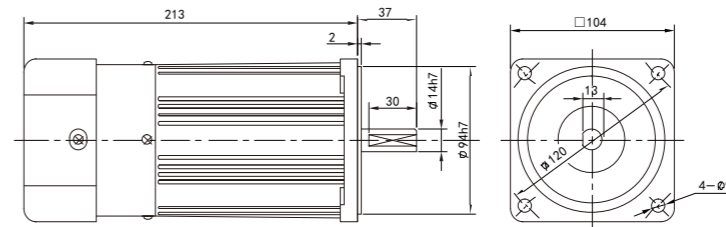
型號 Model	轉速 speed r/min	450	375	270	225	180	150	135	108	90	75	68	54	45	38	34	27	23	18	15	14	11	9	8	5
	減速比 Reduction ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	250
6IK250GN-□	Kg/cm	43	520	71.6	86	107	129	152	179	215	258	308	358	400	400	400	400	400	400	400	400	400	400	400	400
	N.m	4.3	5.2	7.16	8.6	10.7	12.9	15.2	17.9	21.5	25.8	30.8	35.8	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2

■ 裝有減速機時的容許轉矩 Permissible Torque Equipped With Reduction

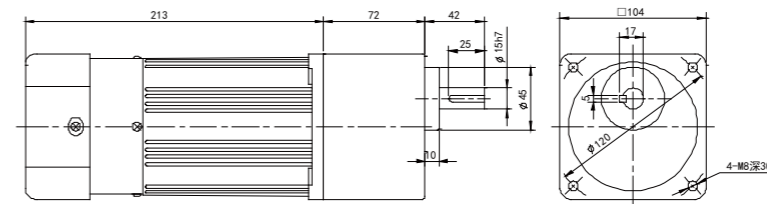
- 減速機品名的□中為減速比的數值，電動機品名為電機電壓類型。
The allowable torque when the gear unit is installed Reducer in the deceleration ratio of the value and the motor name for the motor voltage type.
- 色表示與電動機同一方向運轉，其它則為相反方向
The color indicates the same direction as the motor, and the other is the opposite direction.
- 轉速是與電動機的同步轉速（50HZ: 1350r/min 60HZ:1620r/min）為基準除以減速比而算出的數值。
The speed is calculated by dividing the speed of the motor by the speed (50HZ: 1350r / min 60HZ: 1620r / min) divided by the reduction ratio.
實際轉速將隨負載大小變化而比所示數值減少2~20%左右
The actual speed will vary with the load size than the value shown by the reduction of about 2-20% its desirable to install the intermediate
- 希望以大于下表的減速比進一步減速時，可在電動與減速機之間安裝與減速機之間安裝減速比為10的中間減速機
speed reducer with a reduction ratio of 10 between the electric motor and the reducer when the speed reduction ratio is greater than the reduction ratio of the following table.

尺寸圖 Size drawing

■ 圓軸電機 Circular Shaft Motor 6IK250RA-CMF



■ 調速電磁制動電機 Speed Control Electromagnetic Brake Motor 6IK250RGU-CMF+6GU (3-180) K



■ 齒軸帶接線盒 Motor With Terminal Box 6IK250RGU-CMFT

■ 鍵 Key (60W.90W.120W.140W.160W. 180W.200W.250W共用)

