

# 电磁制动减速电机 BRAKE GEAR MOTOR

# 15W 70mm



### ● 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequency	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
3IK15GN-CM	3IK15A-CM	15	1ph220	50	0.21	1250	125	86	1.2/450
				60	0.19	1550	100	81	
3IK15GN-AM	3IK15A-AM	15	1ph110	50	0.42	1250	125	86	5.0/250
				60	0.36	1550	100	81	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必先切断电源。
- 注：“-A”型号中电压为 110v 时，配置电容器容量以实际铭牌为准。
- When the motor is approved under various safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return. If a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note:“-A” it means the voltage 110V, the assembly capacitor value it is according to the label.

### ● 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

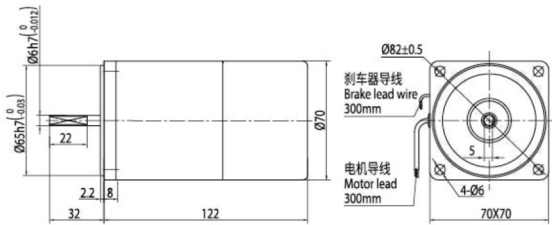
减速比 Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	0.30	0.36	0.51	0.61	0.76	0.91	1.01	1.26	1.51	1.64	1.82	2.27	2.732	3.27	3.63	4.54	4.91	5	5	5	5	5	5	5
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	0.22	0.27	0.37	0.45	0.56	0.67	0.74	0.93	1.11	1.20	1.34	1.67	2.01	2.41	2.67	3.34	3.11	4.11	5	5	5	5	5	5

- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2~20%。
- 表中   色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- 减速箱的最大容许转矩为 5N.M。
- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2% to 20%.
- The   box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 5N.M.

## ● 外形尺寸 (单位mm) Dimension (unit mm)

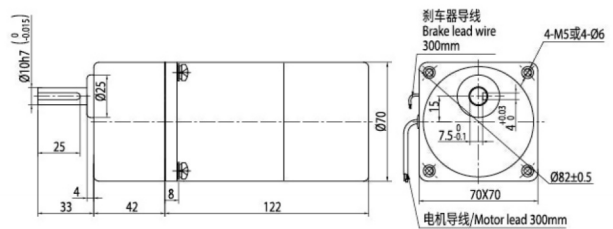
### ● 圆轴电机

重量 Weighr: 1.8kg

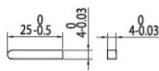


### ● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 2.3kg



### ● 键 (减速器附件)



## ● 短箱体 Short Gear Box

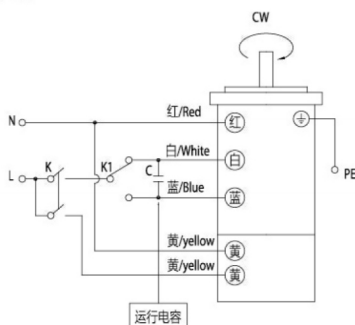
● 其中速比 3~15 可以做成短型减速箱, 高度为 32mm。Gear ratio 3~15, short case is possible, Height of 32 mm.

## ● 接线图 Wiring Diagram

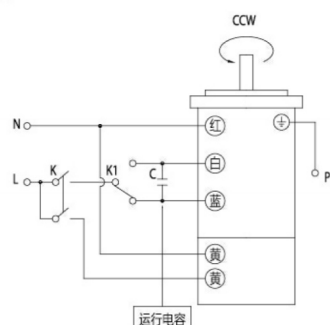
- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- B1B2 请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供给 B1B2, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器 B1B2 电压偏低, 制动器无法正常吸合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motoc CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- Name indicated in the list is pinion shaft we, also valid for the equivalent round shaft type.
- B1B2 please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time power, continue to power supply for B1B2, knocked out power delay, brake motor braking time will extend more than 150 milliseconds.
- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake B1B2 voltage on the low side, the brake is not normal and, causing brake release, loose brake.

### 3IK15GN-AM、3IK15GN-CM

顺时针方向 CW



逆时针方向 CCW



## ● 请注意 Note

单相电机运转方向的转换应在电机停止后进行。

若在电机运转时转换运转方向, 可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.

# 电磁制动减速电机 BRAKE GEAR MOTOR

## 25W 80mm



### 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequenc	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
4IK25GN-CM	4IK25A-CM	25	1ph220	50	0.30	1250	210	163	1.8/450
				60	0.30	1550	170	140	
4IK25GN-AM	4IK25A-AM	25	1ph110	50	0.57	1250	210	163	7.0/250
				60	0.54	1550	170	140	
4IK25GN-SM	4IK25A-SM	25	3ph220	50	0.24	1250	195	720	/
				60	0.20	1550	160	540	
4IK25GN-S3M	4IK25A-S3M	25	3ph380	50	0.14	1250	195	720	/
				60	0.12	1550	160	540	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必事先切断电源。
- 注：“-A”型号中电压为 110v 时，配置电容器容量以实际铭牌为准。
- When the motor is approved under varous safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return If a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note:“-A”it means the voltage 110V, the assembly capacitor vaule it is according the labe.

### 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

减速比 Gear 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	200
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	0.45	0.54	0.75	0.90	1.12	1.35	1.50	1.87	2.25	2.69	2.99	3.37	4.04	4.85	5.39	6.74	7.28	8	8	8	8	8	8	8
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	0.36	0.44	0.60	0.73	0.91	1.09	1.21	1.52	1.82	2.18	2.43	2.73	3.27	3.93	4.37	5.46	6.55	8	8	8	8	8	8	8

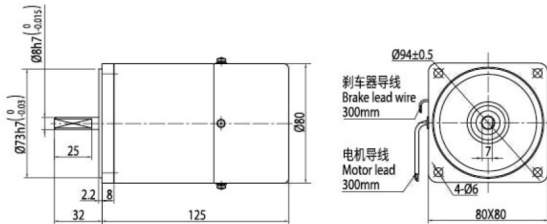
- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2~20%。
- 表中 色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- 减速箱的最大容许转矩为 8N.M。

- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2% to 20%.
- The  box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 8N·M.

## ● 外形尺寸 (单位mm) Dimension (unit mm)

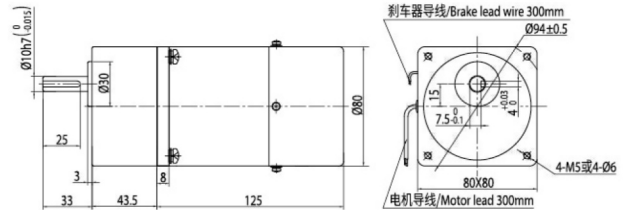
### ● 圆轴电机

重量 Weighr: 2.15kg



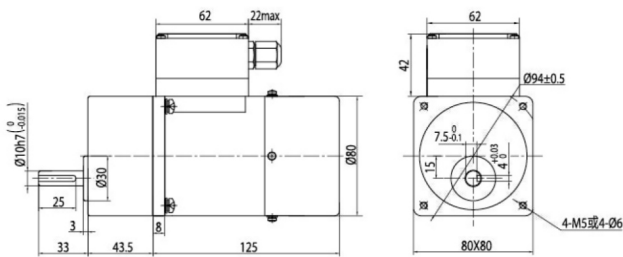
### ● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 2.95kg



### ● 组合: 接线盒 (可选, 详见 P148) 型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 3.1kg

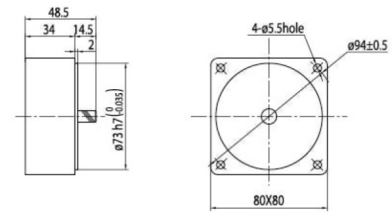


### ● 中间齿轮箱 Decimal Gearhead

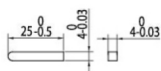
可安装在齿轮轴型上 Can be connected to GN pinion shaft type

电动机外形与齿轮轴型相同 4GN10XK

重量 Weight: 0.41kg



### ● 键 (减速器附件)



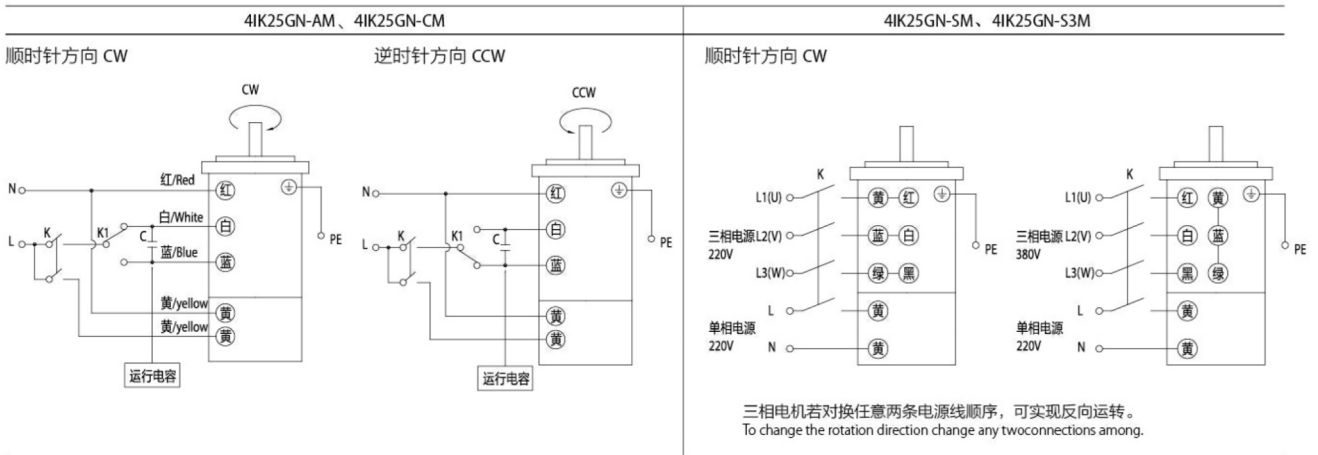
## ● 短箱体 Short Gear Box

- 其中速比 3~20 可以做成短型减速箱, 高度为 32mm。Gear ratio 3~20, short case is possible, Height of 32 mm.

## ● 接线图 Wiring Diagram

- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 三相电机若对换任意两条电源线顺序, 可实现反向运转。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- 制动器请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供电给制动器, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器电压偏低, 制动器无法正常合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motor CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- To change the rotation direction change any two connections among.
- Name indicated in the list is pinion shaft type, also valid for the equivalent round shaft type.
- Brake please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time power, continue to power supply for Brake, knocked out power delay, brake motor braking time will extend more than 150 milliseconds.
- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake voltage on the low side, the brake is not normal and, causing brake release, loose brake.





● **请注意Note**

单相电机运转方向的转换应在电机停止后进行。

若在电机运转时转换运转方向, 可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.

# 电磁制动减速电机 BRAKE GEAR MOTOR

# 40W 90mm



## ● 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequenc	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
5IK40GN-CM	5IK40A-CM	40	1ph220	50	0.43	1350	335	260	2.5/450
				60	0.52	1550	260	260	
5IK40GN-AM	5IRK40A-AM	40	1ph110	50	0.92	1350	335	260	10.0/250
				60	0.92	1550	360	260	
5IK40GN-SM	5IK40A-SM	40	3ph220	50	0.27	1350	310	900	/
				60	0.23	1550	260	750	
5IK40GN-S3M	5IK40A-S3M	40	3ph380	50	0.16	1350	310	900	/
				60	0.14	1550	260	750	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必事先切断电源。
- 注：“-A”型号中电压为110v时，配置电容器容量以实际铭牌为准。
- When the motor is approved under various safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return. If a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note: "-A" it means the voltage 110V, the assembly capacitor vaule it is according the label.

## ● 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

减速比 Gear 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	200
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	0.71	0.86	1.20	1.43	1.79	2.14	2.38	2.98	3.57	3.86	4.29	5.36	6.44	7.72	7.72	9.65	10	10	10	10	10	10	10	10
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	0.56	0.68	0.94	1.13	1.41	1.69	1.88	2.35	2.82	3.04	3.38	4.23	5.07	6.09	6.09	7.61	9.13	10	10	10	10	10	10	10

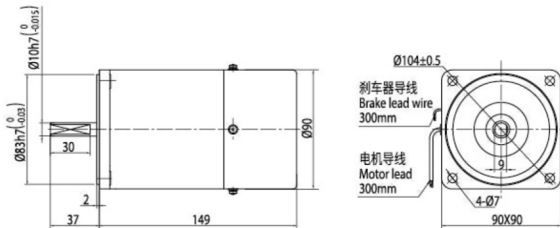
- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围2~20%。
- 表中■色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩×减速比×传动效率计算而得。
- 减速箱的最大容许转矩为10N·M。

- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2% to 20%.
- The   box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 10N·M.

### ● 外形尺寸 (单位mm) Dimension (unit mm)

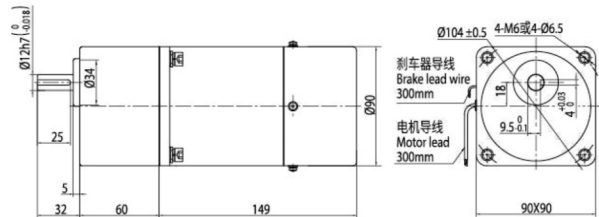
#### ● 圆轴电机

重量 Weighr: 3.1kg



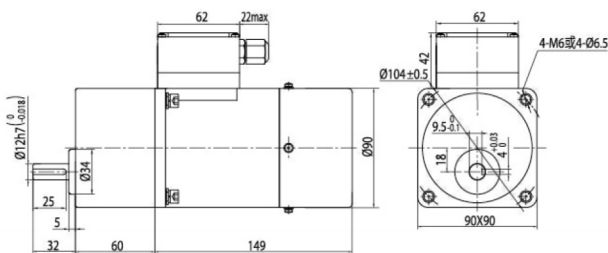
#### ● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 4.45kg



#### ● 组合: 接线盒 (可选, 详见 P148) 型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 4.6kg

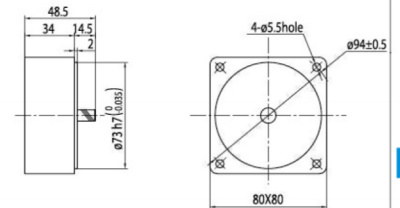


#### ● 中间齿轮箱 Decimal Gearhead

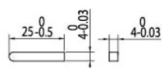
可安装在齿轮轴型上 Can be connected to GN pinion shaft type

电动机外形与齿轮轴型相同 4GN10XK

重量 Weight: 0.41kg



#### ● 键 (减速器附件)



### ● 短箱体 Short Gear Box

● 其中速比 3~18 可以做成短型减速箱, 高度为 42mm. Gear ratio 3~18, short case is possible, Height of 42 mm.

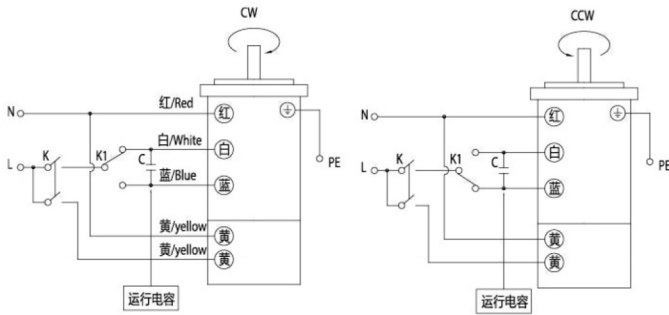
### ● 接线图 Wiring Diagram

- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 三相电机若对换任意两条电源线顺序, 可实现反向运转。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- 制动器请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供电给制动器, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器电压偏低, 制动器无法正常吸合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motor CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- To change the rotation direction change any two connections among.
- Name indicated in the list is pinion shaft type, also valid for the equivalent round shaft type.
- Brake please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time power, continue to power supply for Brake, knocked out power delay, brake motor braking time will extend more than 150 milliseconds.
- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake voltage on the low side, the brake is not normal and, causing brake release, loose brake.

5IK40GN-AM、5IK40GN-CM

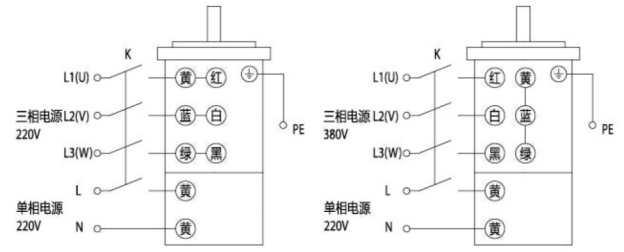
顺时针方向 CW

逆时针方向 CCW



5IK40GN-5M、5IK40GN-53M

顺时针方向 CW



三相电机若对换任意两条电源线顺序, 可实现反向运转。  
To change the rotation direction change any two connections among.

● 请注意Note

单相电机运转方向的转换应在电机停止后进行。

若在电机运转时转换运转方向, 可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.



# 电磁制动减速电机 BRAKE GEAR MOTOR

## 60W 90mm



### ● 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequenc	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
5IK60GN-CMF	5IK60A-CMF	60	1ph220	50	0.62	1350	500	490	4.0/450
				60	0.66	1550	405	490	
5IK60GN-AMF	5IK60A-AMF	60	1ph110	50	1.22	1350	500	490	15.0/250
				60	1.24	1550	405	490	
5IK60GN-SMF	5IK60A-SMF	60	3ph220	50	0.41	1350	460	1400	/
				60	0.34	1550	375	1100	
5IK60GN-S3MF	5IK60A-S3MF	60	3ph380	50	0.25	1350	460	1400	/
				60	0.21	1550	375	1100	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必先切断电源。
- 注：“-A”型号中电压为 110v 时，配置电容器容量以实际铭牌为准。
- When the motor is approved under varous safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return If a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note:“-A”it means the voltage 110V, the assembly capacitor vaule it is according the labe.

### ● 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

减速比 Gear 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	200
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	0.97	1.18	1.64	1.97	2.47	2.96	3.29	4.11	4.93	5.33	5.92	7.40	8.88	10	10	10	10	10	10	10	10	10	10	10
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	0.86	1.03	1.43	1.72	2.15	2.57	2.86	3.57	4.29	4.63	5.15	6.43	7.72	9.26	9.5	10	10	10	10	10	10	10	10	10

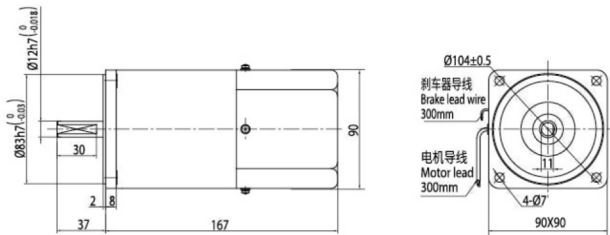
- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2~20%。
- 表中色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- 减速箱的最大容许转矩为 10N.M。

- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2% to 20%.
- The   box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 10N·M.

## ● 外形尺寸 (单位mm) Dimension (unit mm)

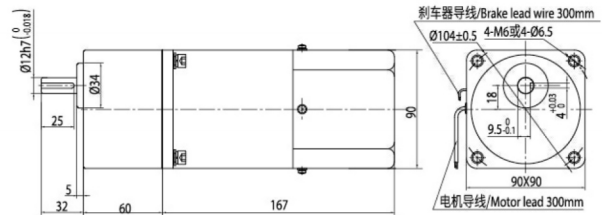
### ● 圆轴电机

重量 Weighr: 3.55kg



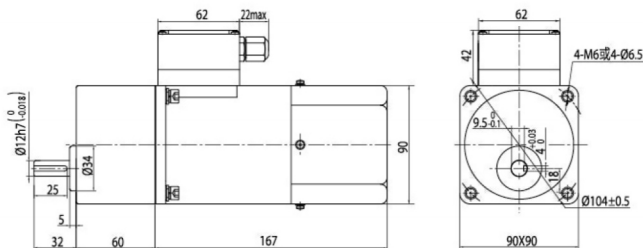
### ● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 4.9kg



### ● 组合: 接线盒 (可选, 详见 P148) 型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 5.05kg

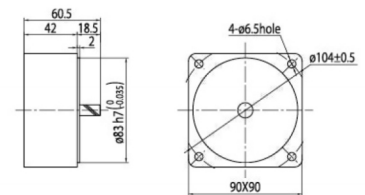


### ● 中间齿轮箱 Decimal Gearhead

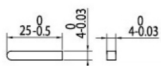
可安装在 GN 齿轮轴型上 Can be connected to GN pinion shafte type

电动机外形与齿轮轴型相同 5GN10XK

重量 Weight: 0.6kg



### ● 键 (减速器附件)

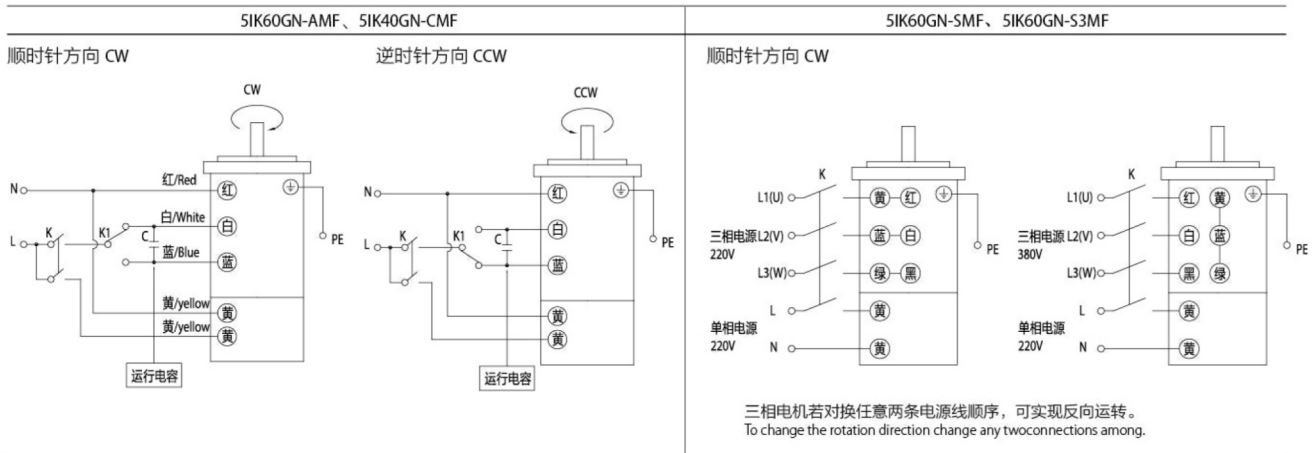


## ● 短箱体 Short Gear Box

- 其中速比 3~18 可以做成短型减速箱, 高度为 42mm。Gear ratio 3~18, short case is possible, Height of 42mm.

## ● 接线图 Wiring Diagram

- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 三相电机若对换任意两条电源线顺序, 可实现反向运转。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- 制动器请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供电给制动器, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器电压偏低, 制动器无法正常吸合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motoc CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- To change the rotation direction change any two connections among.
- Name indicated in the list is pinion shaft we, also valid for the equivalent round shaft type.
- Brake please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time power, continue to power supply for Brake, knocked out power delay, brake motor braking time will extend more than 150 milliseconds.
- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake voltage on the low side, the brake is not normal and, causing brake release, loose brake.



● 请注意Note

单相电机运转方向的转换应在电机停止后进行。

若在电机运转时转换运转方向, 可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.

# 电磁制动减速电机 BRAKE GEAR MOTOR

# 60W 90mm



## ● 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequenc	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
5IK60GU-CMF	5IK60A-CMF	60	1ph220	50	0.62	1350	500	490	4.0/450
				60	0.66	1550	405	490	
5IK60GU-AMF	5IK60A-AMF	60	1ph110	50	1.22	1350	500	490	15.0/250
				60	1.24	1550	405	490	
5IK60GU-SMF	5IK60A-SMF	60	3ph220	50	0.41	1350	460	1400	/
				60	0.34	1550	375	1100	
5IK60GU-S3MF	5IK60A-S3MF	60	3ph380	50	0.25	1350	460	1400	/
				60	0.21	1550	375	1100	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必事先切断电源。
- 注：“-A”型号中电压为 110v 时，配置电容器容量以实际铭牌为准。
- When the motor is approved under varous safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return if a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note:“-A”it means the voltage 110V, the assembly capacitor vaule it is according the labe.

## ● 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

减速比 Gear 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	200
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	0.97	1.18	1.64	1.97	2.47	2.96	2.96	3.70	4.44	5.33	5.33	6.66	7.99	9.59	10.66	13.32	15.98	19.98	20	20	20	20	20	20
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	0.86	1.03	1.43	1.72	2.15	2.57	2.87	3.22	3.86	4.63	5.01	5.79	6.95	8.34	9.26	11.58	13.90	17.37	18.76	20	20	20	20	20

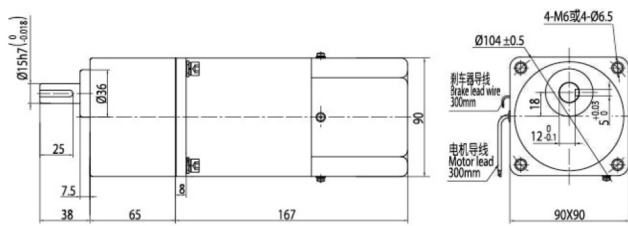
- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2~20%。
- 表中 色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- 减速箱的最大容许转矩为 20N·M。



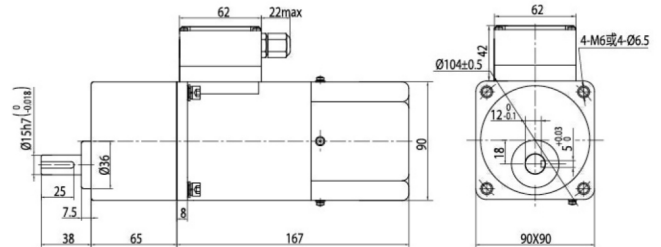
- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2% to 20%.
- The   box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 20N·M.

### ● 外形尺寸 (单位mm) Dimension (unit mm)

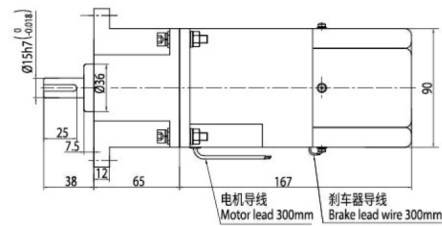
● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)  
 重量 Weighr: 3.55kg



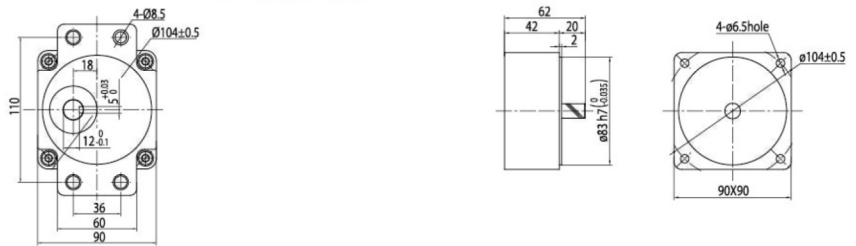
● 组合: 接线盒 (可选, 详见 P148) 型电机 + 标准减速箱 (减速比 1:3~200)  
 重量 Weighr: 5.05kg



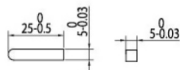
● 组合: 引线型电机 + 带耳型减速箱 (减速比 1:3~200)  
 重量 Weighr: 5.2kg



● 中间齿轮箱 Decimal Gearhead  
 可安装在 GU 齿轮轴型上 Can be connected to GU pinion shaft type  
 电动机外形与齿轮轴型相同 5GU10XK  
 重量 Weight: 0.7kg



● 键 (减速器附件)

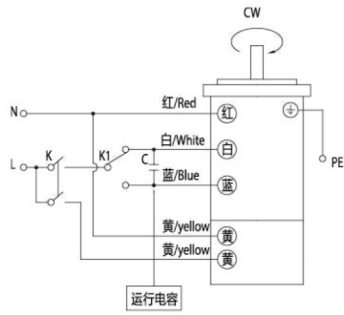


### ● 接线图 Wiring Diagram

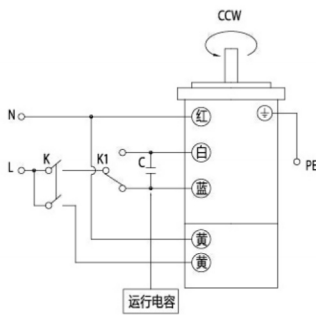
- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 三相电机若对换任意两条电源线顺序, 可实现反向运转。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- 制动器请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供电给制动器, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器电压偏低, 制动器无法正常吸合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motoc CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- To change the rotation direction change any two connections among.
- Name indicated in the list is pinion shaft we, also valid for the equivalent round shaft type.
- Brake please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time power, continue to power supply for Brake, knocked out power delay, brake motor braking time will extend more than 150 milliseconds.
- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake voltage on the low side, the brake is not normal and, causing brake release, loose brake.

5IK60GU-AMF、5IK60GU-CMF

顺时针方向 CW

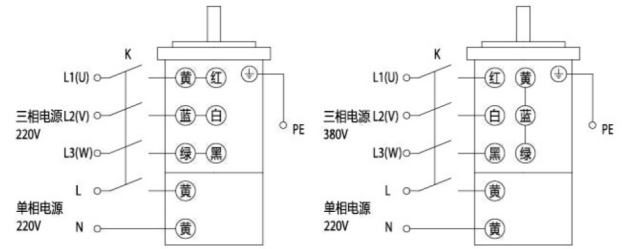


逆时针方向 CCW



5IK60GU-SMF、5IK60GU-S3MF

顺时针方向 CW



三相电机若对换任意两条电源线顺序，可实现反向运转。  
To change the rotation direction change any two connections among.

### ● 请注意Note

单相电机运转方向的转换应在电机停止后进行。

若在电机运转时转换运转方向，可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.

# 电磁制动减速电机 BRAKE GEAR MOTOR

## 90W 90mm



### ● 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequenc	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
5IK90GU-CMF	5IK90A-CMF	90	1ph220	50	0.83	1350	750	559	5.0/450
				60	0.99	1550	600	481	
5IK90GU-AMF	5IK90A-AMF	90	1ph110	50	1.64	1350	750	559	20.0/250
				60	1.77	1550	600	481	
5IK90GU-SMF	5IK90A-SMF	90	3ph220	50	0.73	1350	700	2000	/
				60	0.62	1550	560	1550	
5IK90GU-S3MF	5IK90A-S3MF	90	3ph380	50	0.43	1350	700	2000	/
				60	0.36	1550	560	1550	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必事先切断电源。
- 注：“-A”型号中电压为 110v 时，配置电容器容量以实际铭牌为准。
- When the motor is approved under varous safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return If a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note:“-A”it means the voltage 110V, the assembly capacitor vaule it is according the labe.

### ● 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

减速比 Gear 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	200
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	1.56	1.88	2.60	3.13	3.91	4.69	5.1	5.86	7.03	8.44	8.8	10.55	12.66	15.19	16.88	20	20	20	20	20	20	20	20	20
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	1.29	1.55	2.15	2.58	3.22	3.86	4.3	4.83	5.80	6.96	7.3	8.69	10.43	12.52	13.91	17.39	20	20	20	20	20	20	20	20

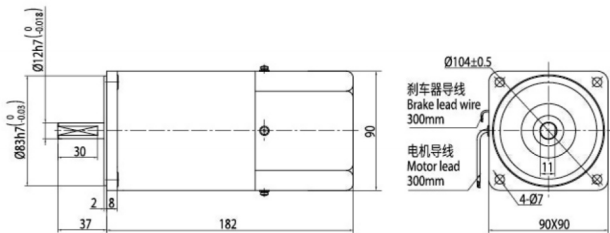
- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2~20%。
- 表中色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- 减速箱的最大容许转矩为 20N.M。

- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2% to 20%.
- The   box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 20N·M.

## ● 外形尺寸 (单位mm) Dimension (unit mm)

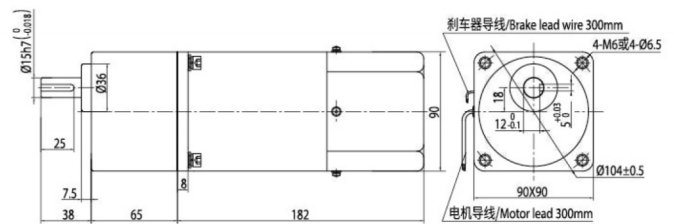
### ● 圆轴电机

重量 Weighr: 4.3kg



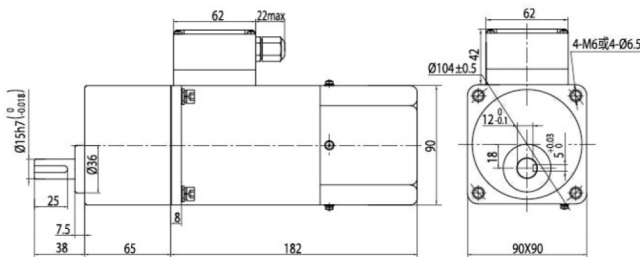
### ● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 5.8kg



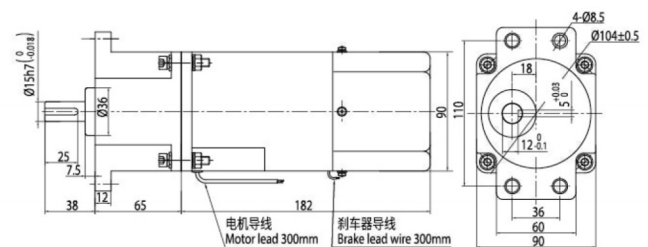
### ● 组合: 接线盒 (可选, 详见 P148) 型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 5.95kg



### ● 组合: 引线型电机 + 带耳型减速箱 (减速比 1:3~200)

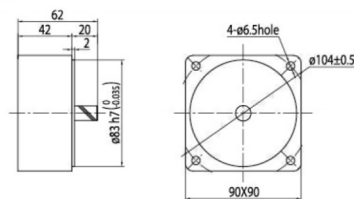
重量 Weighr: 5.8kg



### ● 中间齿轮箱 Decimal Gearhead

可安装在 GU 齿轮轴型上 Can be connected to GU pinion shaft type  
电动机外形与齿轮轴型相同 5GU10XK

重量 Weight: 0.7kg



### ● 键 (减速器附件)

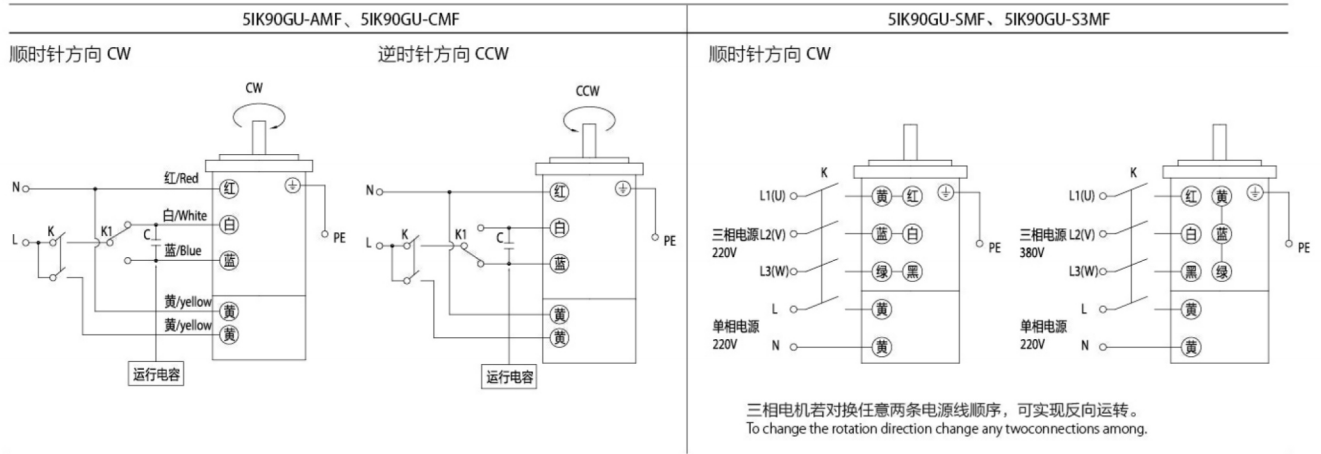


## ● 接线图 Wiring Diagram

- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 三相电机若对换任意两条电源线顺序, 可实现反向运转。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- 制动器请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供电给制动器, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器电压偏低, 制动器无法正常吸合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motoc CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- To change the rotation direction change any two connections among.
- Name indicated in the list is pinion shaft we, also valid for the equivalent round shaft type.
- Brake please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time power, continue to power supply for Brake, knocked out power delay, brake motor braking time will extend more than 150 milliseconds.



- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake voltage on the low side, the brake is not normal and, causing brake release, loose brake.



**● 请注意Note**

单相电机运转方向的转换应在电机停止后进行。

若在电机运转时转换运转方向, 可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.

# 电磁制动减速电机 BRAKE GEAR MOTOR

# 120W 90mm



## ● 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequenc	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
5IK120GU-CMF	5IK120A-CMF	120	1ph220	50	1.03	1350	1000	638	6.0/450
				60	1.23	1550	800	556	
5IK120GU-AMF	5IK120A-AMF	120	1ph110	50	2.05	1350	1000	638	25.0/250
				60	2.20	1550	800	556	
5IK120GU-SMF	5IK120A-SMF	120	3ph220	50	0.73	1350	930	2600	/
				60	0.62	1550	740	2080	
5IK120GU-S3MF	5IK120A-S3MF	120	3ph380	50	0.43	1350	930	2600	/
				60	0.36	1550	740	2080	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必先切断电源。
- 注：“-A”型号中电压为 110v 时，配置电容器容量以实际铭牌为准。
- When the motor is approved under varous safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return if a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note:“-A”it means the voltage 110V, the assembly capacitor vaule it is according the labe.

## ● 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

减速比 Gear 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	200
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	2.12	2.55	3.54	4.25	5.31	6.37	6.9	7.96	9.56	11.47	12	14.34	17.20	20	20	20	20	20	20	20	20	20	20	20
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	1.72	2.07	2.87	3.45	4.31	5.17	5.8	6.46	7.75	9.30	9.9	11.63	13.96	16.75	18.61	20	20	20	20	20	20	20	20	20

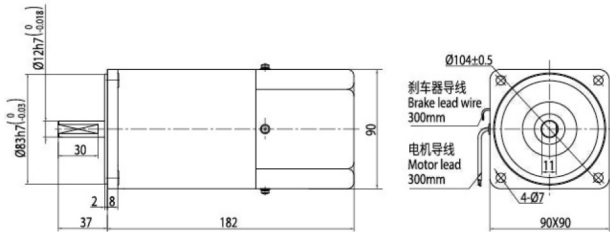
- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2~20%。
- 表中 色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- 减速箱的最大容许转矩为 20N·M。

- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2% to 20%.
- The   box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 20N·M.

### ● 外形尺寸 (单位mm) Dimension (unit mm)

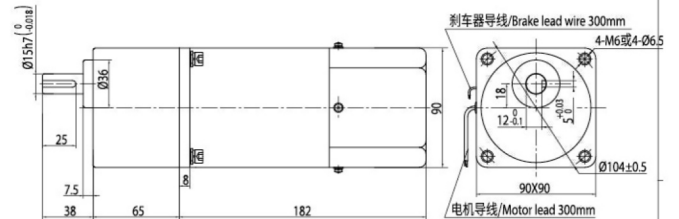
#### ● 圆轴电机

重量 Weighr: 4.5kg



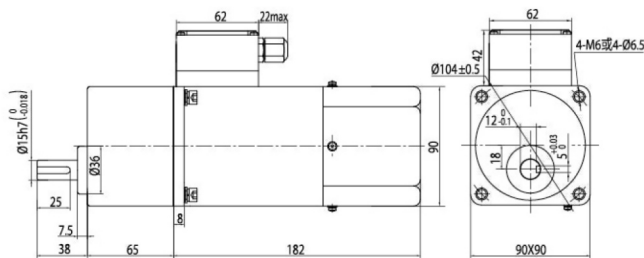
#### ● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 6.0kg



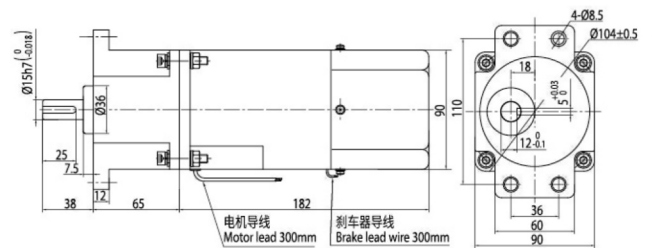
#### ● 组合: 接线盒 (可选, 详见 P148) 型电机 + 标准减速箱 (减速比 1:3~200)

重量 Weighr: 6.05kg



#### ● 组合: 引线型电机 + 带耳型减速箱 (减速比 1:3~200)

重量 Weighr: 6.0kg

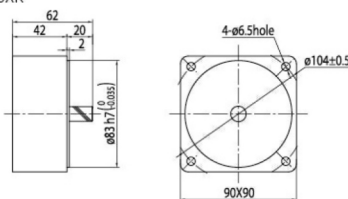


#### ● 中间齿轮箱 Decimal Gearhead

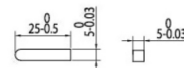
可安装在 GU 齿轮轴型上 Can be connected to GU pinion shaft type

电动机外形与齿轮轴型相同 5GU10XK

重量 Weight: 0.7kg



#### ● 键·键槽 (减速器附件)

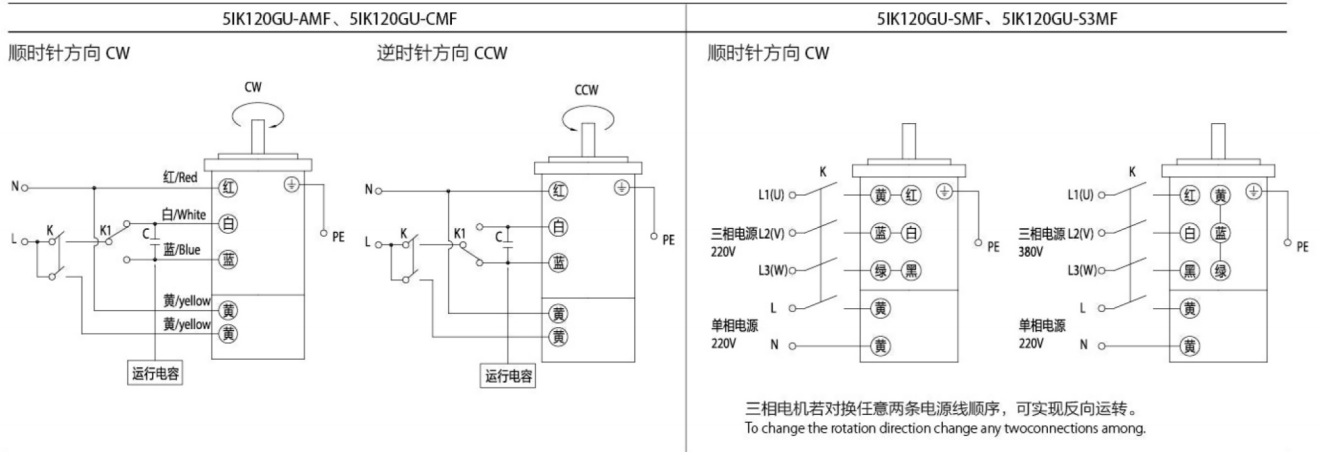


### ● 接线图 Wiring Diagram

- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 三相电机若对换任意两条电源线顺序, 可实现反向运转。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- 制动器请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供电给制动器, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器电压偏低, 制动器无法正常吸合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motor CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- To change the rotation direction change any two connections among.
- Name indicated in the list is pinion shaft we, also valid for the equivalent round shaft type.
- Brake please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time

power, continue to power supply for Brake, knocked out power delay, brake motor braking time will extend more than 150 milliseconds.

- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake voltage on the low side, the brake is not normal and, causing brake release, loose brake.



● **请注意Note**

单相电机运转方向的转换应在电机停止后进行。

若在电机运转时转换运转方向，可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.



# 电磁制动减速电机 BRAKE GEAR MOTOR

## 200W 104mm



### ● 电机型号/性能 List of motor characteristics

电机型号 Motor Model		输出功率 Output Power	电压 Voltage	频率 Frequency	电流 Current	额定转速 Rated Speed	额定转矩 Rated Torque	启动转矩 Starting Torque	运行电容 Capacitor
齿轮轴型 Pinion Shaft	圆轴型 Round Shaft	W	V	Hz	A	r/min	mN.m	mN.m	μF/VAC
6IK200GU-CMF	6IK200A-CMF	200	1ph220	50	1.30	1350	1414	1050	10.0/450
				60	1.30	1550	1060	900	
6IK200GU-AMF	6IK200A-AMF	200	1ph110	50	2.60	1350	1310	950	35.0/250
				60	2.70	1550	1090	920	
6IK200GU-SMF	6IK200A-SMF	200	3ph220	50	1.10	1350	1540	4000	/
				60	1.00	1550	1250	3000	
6IK200GU-S3MF	6IK200A-S3MF	200	3ph380	50	0.65	1350	1540	4000	/
				60	0.60	1550	1250	3000	

- 各种安全规格以电机铭牌上的型号取得认定。
- 内藏热保护装置（自动复位型）。在电机因某种原因过热时会自行启动使电机停止。
- 电机温度下降后会自动恢复运行，故在进行检查作业时请务必事先切断电源。
- 注：“-A”型号中电压为 110v 时，配置电容器容量以实际铭牌为准。
- When the motor is approved under various safety standards, the model name on the nameplate is the approved model name.
- Contains a built-in thermal protector/automatic return. If a motor overheats for any reason, the thermal protector is opened and the motor stops.
- When the motor temperature drops, the thermal protector doses and the motor restarts. Be sure to turn the motor off before inspecting.
- Note:“-A” it means the voltage 110V, the assembly capacitor value it is according the label.

### ● 减速箱减速比/性能对照表 Gear reduction ratio/performance comparison

减速比 Gear 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	200
50Hz	转速 Speed r/min	450	375	270	225	180	150	135	108	90	75	67.5	54	45	37.5	33.7	27	22.5	18	15	13.5	11	9	7.5	6.75
	转矩 Torque N.m	3.11	3.74	5.19	6.23	7.78	9.34	9.34	11.67	14.01	16.81	16.81	21.01	25.21	30.26	33.62	40	40	40	40	40	40	40	40	40
60Hz	转速 Speed r/min	516	430	310	258	206	172	155	124	103	86	77.5	62	51.6	43	38.75	31	25.8	20.6	17.2	15.5	12.9	10.3	8.6	7.75
	转矩 Torque N.m	2.58	3.09	4.29	5.15	6.44	7.73	7.73	9.66	11.59	13.91	13.91	17.39	20.86	25.04	27.82	34.77	40	40	40	40	40	40	40	40

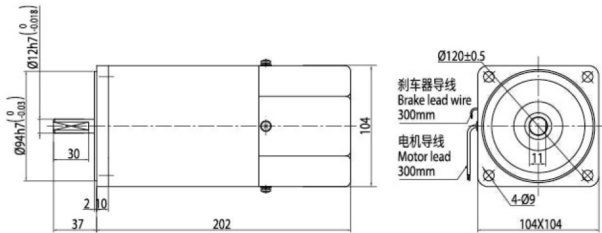
- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2~20%。
- 表中 色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- 减速箱的最大容许转矩为 40N.M。

- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio. The actual speed will vary with the load, ranging from 2 % to 20%.
- The  box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque \* deceleration ratio \* transmission efficiency.
- The maximum allowable torque of the decelerator is 40N·M.

## ● 外形尺寸 (单位mm) Dimension (unit mm)

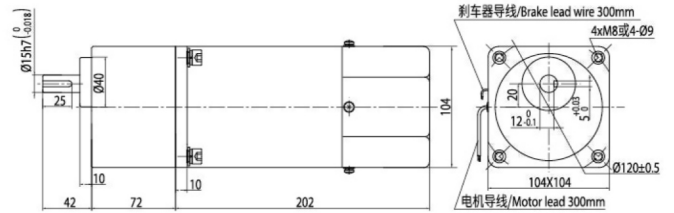
### ● 圆轴电机

重量 Weighr: 5.9kg



### ● 组合: 引线型电机 + 标准减速箱 (减速比 1:3~200)

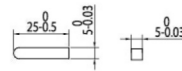
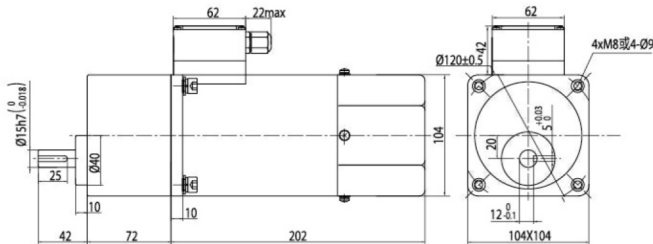
重量 Weighr: 13kg



### ● 组合: 接线盒 (可选, 详见 P148) 型电机 + 标准减速箱 (减速比 1:3~200)

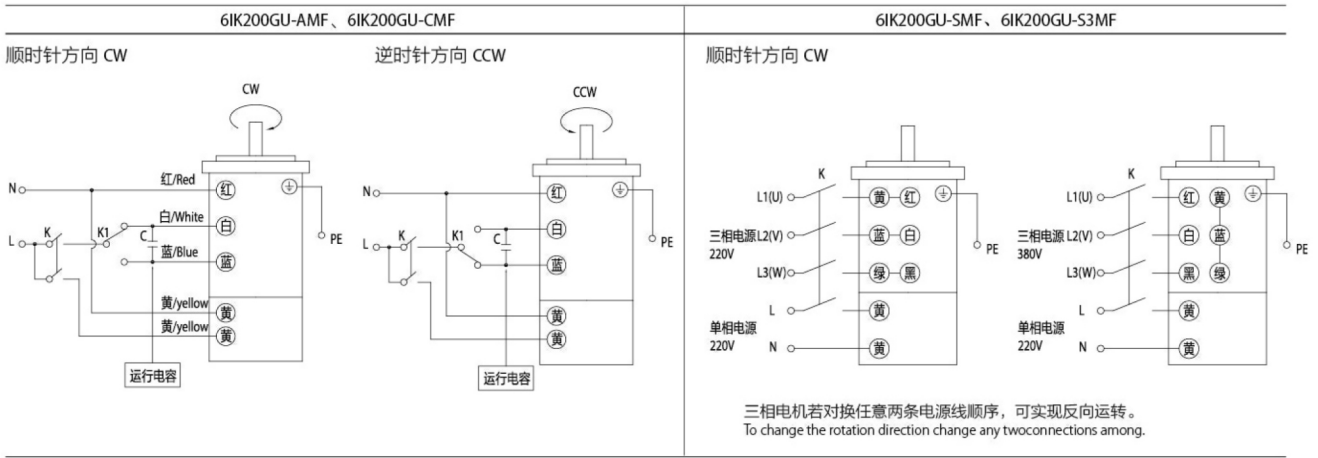
重量 Weighr: 13.15kg

### ● 键 (减速器附件)



## ● 接线图 Wiring Diagram

- 运转方向指从电机轴看来的方向。CW 表示顺时针方向, CCW 表示逆时针方向。
- 三相电机若对换任意两条电源线顺序, 可实现反向运转。
- 表中所记型号为齿轮轴型, 圆轴型亦同。
- 制动器请按图示由联动开关 K 控制, 请勿直接并联于电机主绕组上, 因为电机停止过程中, 主绕组会短时间发电, 继续供电给制动器, 造成制动器断电延时, 电机制动时间将延长 150 毫秒以上。
- 请勿使用固态继电器控制电机和制动器, 因为电机和制动器的工作电流很小, 易造成固态继电器压降过大, 制动器电压偏低, 制动器无法正常吸合, 造成制动器无法脱开、松闸。
- The direction of motor rotation is as viewed from the shaft end of motor CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- To change the rotation direction change any two connections among.
- Name indicated in the list is pinion shaft type, also valid for the equivalent round shaft type.
- Brake please click here is controlled by linkage switch K, please do not directly on the main motor windings in parallel, in the process of motor stops, the primary winding can short time power, continue to power supply for Brake, brake motor braking time will extend more than 150 milliseconds.
- Do not use solid state relay control motor and brake, because motor and brake working current is small, easy to cause the pressure drop of the solid state relay is too large, the brake voltage on the low side, the brake is not normal and, causing brake release, loose brake.



● 请注意Note

单相电机运转方向的转换应在电机停止后进行。

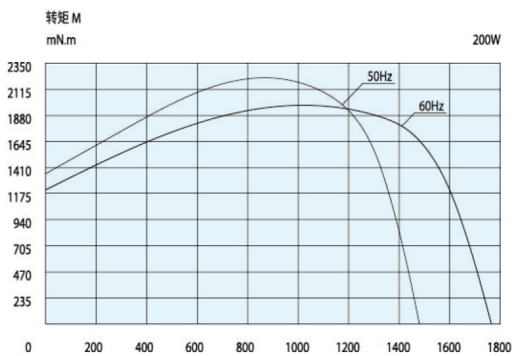
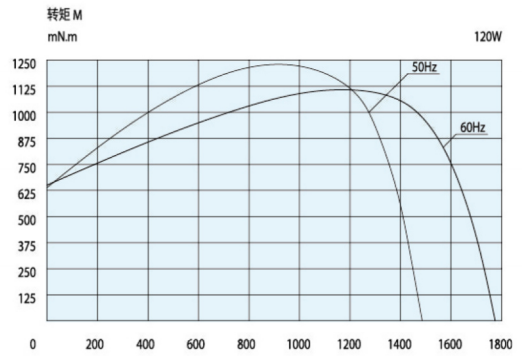
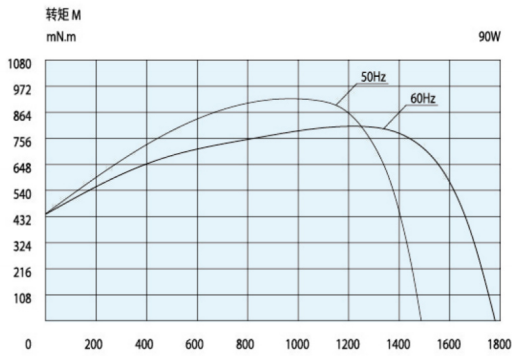
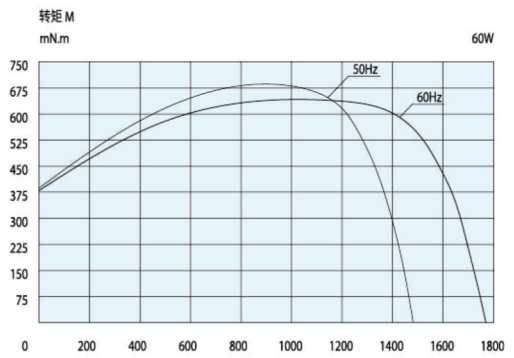
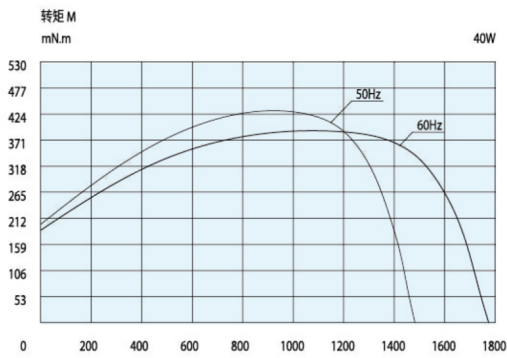
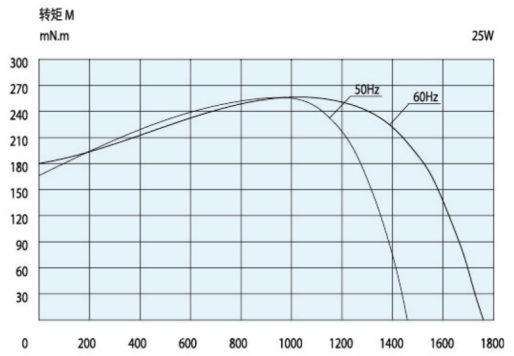
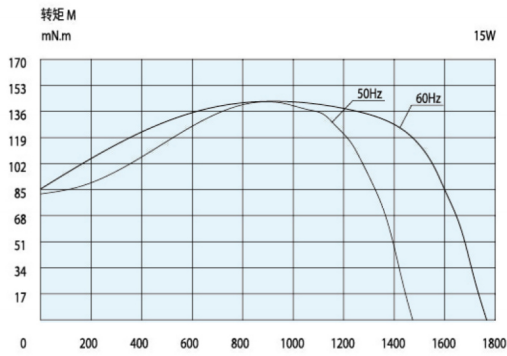
若在电机运转时转换运转方向, 可能发生无法转换运转方向或须费时较久的情况。

Change the direction of single-phase motor rotation only after bring the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.

# 转速-转矩曲线 COMMON SPECIFICATIONS

## ● 单相电机 Single phase motor



# 转速-转矩曲线

## ROTATOINAL SPEED - TORQUE CURVE

●三相电机 Single phase motor

