

感应电动机 INDUCTION MOTOR

90W

□ 90mm



规格 / 连续额定 SPECS / CONTINUOUS RATING

型号 Model 类型 Type	输出功率 Output power W	电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque mN.m	额定转矩 Rated Torque mN.m	额定转速 Rated Speed r/min	电容器容量 Capacitor μF
上段: 齿轮轴 Above: gearbox 下段 () 内: 圆轴 below in (): round shaft								
导线型 Lead Wire Type 外形图 Drawing ①	带端子箱型 Terminal Box Type 外形图 Drawing ②							
5IK90GU-AF (5IK90A-AF)	5IK90GU-AFT (5IK90A-AFT)	90	1ph100	50 60	1.55 1.85	450 570	1250 1550	25.0
5IK90GU-EF (5IK90A-EF)	5IK90GU-EFT (5IK90A-EFT)	90	1ph110 1ph120	50 60	1.40 1.45	500 570	1550	20.0
5IK90GU-CF (5IK90A-CF)	5IK90GU-CFT (5IK90A-CFT)	90	1ph220 1ph230	50	0.72 0.70	450 570	1250 1550	5.0
5IK90GU-HF (5IK90A-HF)	5IK90GU-HFT (5IK90A-HFT)	90	1ph220 1ph230	60	0.71 0.75	450 570	1550	-
5IK90GU-SF (5IK90A-SF)	5IK90GU-SFT (5IK90A-SFT)	90	3ph220	50 60	0.60 0.55	1350 1100	700 570	1250 1550

● 各种安全规格以电动机铭牌上的型号取得认定。

● When the motor is approved under various safety standards, the model name on the nameplate is the approved model name.

种类 TYPE

● 电动机 MOTOR

机型 Type	型号 Model	
	齿轮轴型 Pinion Shaft	圆轴型 Round Shaft
导线型 Lead Wire Type	5IK90GU-AF	5IK90A-AF
	5IK90GU-EF	5IK90A-EF
	5IK90GU-CF	5IK90A-CF
	5IK90GU-HF	5IK90A-HF
	5IK90GU-SF	5IK90A-SF
带端子箱型 Terminal Box Type	5IK90GU-AFT	5IK90A-AFT
	5IK90GU-EFT	5IK90A-EFT
	5IK90GU-CFT	5IK90A-CFT
	5IK90GU-HFT	5IK90A-HFT
	5IK90GU-SFT	5IK90A-SFT

● 平行轴减速器(另售) PARALLEL SHAFT GEARHEAD (SOLD SEPARATELY)

减速器种类 Gearhead Type	减速器型号 Gearhead Model	减速比 Gear Ratio
长寿命 · 低噪音 Long Life · Low Noise	5GU□KB	3、3.6、5、6、7.5、9、12.5、15、18、25、30、36、50、60、75、90、100、120、150、180、200
	5GU10XK(中间减速器 Mid-gearbox)	

● 减速器型号的□中为减速比的数值

● Enter the gear ratio in the box (□) within the model name

■ 装有减速器时的容许转矩

ALLOWABLE TORQUE WHEN BEING WITH GEARHEAD

- 减速器·中间减速器另售
- 电动机型号的□中为表示带端子箱型的记号 (T)
- 减速器型号的□中为减速比的数值。
- □ 色表示与电动机同一方向运转，其他则为相反方向。
- 转速是以电动机的同步转速 (50Hz: 1500r/min、60Hz: 1800r/min) 为基准除以减速比而算出来的数值。实际转速将随负载大小变化而比所示数值减少 2%~20% 左右。
- 希望以大于下表的减速比进行进一步减速时，可在电动机与减速器之间安装减速比为10的中间减速器。这时的容许转矩为20N·m。
- Gearhead and mid-gearbox can be sold separately.
- Enter the code that represents the terminal box type (T) in the box (□) within the model name.
- Enter the gear ratio in the box(□) within the model name.
- The colored background □ indicates the same rotating direction of the motor while the rotating direction of others are opposite.
- The speed is calculated by dividing the motor's synchronous speed (50Hz: 1500r/min、60Hz: 1800r/min) by the gear ratio. The actual speed is 2%~20% less than the displayed value, depending on the size of the load.
- To reduce the speed beyond the gear ratio in the table, attach a mid-gearbox (gear ratio: 10) between the gearhead and motor. In that case, the permissible torque is 20N·m.

容许力矩单位 Allowance Torque Unit: 上段 Upside (N·m) / 下段 Belowside (kgf·cm)

机 型Type	减 速 比Gear Ratio		3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
电动机/减速器 Motor/Gearhead	转 速Speed r/min	50Hz	500	417	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	9
5IK90GU-AF□	5GU□KB	50Hz	1.7	2.0	2.8	3.4	4.3	5.1	6.4	7.7	9.2	11.6	13.9	16.6	20	20	20	20	20	20	20	20	20
5IK90GU-EF□			17.3	20.4	28.6	34.7	43.9	52.0	65.3	78.6	93.3	118	142	169	200	200	200	200	200	200	200	200	
5IK90GU-CF□		60Hz	1.4	1.7	2.3	2.8	3.5	4.2	5.2	6.2	7.5	9.4	11.3	13.5	18.8	20	20	20	20	20	20	20	20
5IK90GU-HF□			14.3	17.3	23.5	28.6	35.7	42.9	53.1	63.3	76.5	95.9	115	138	19.2	200	200	200	200	200	200	200	
5IK90GU-SF□																							

■ 容许悬挂负载·容许轴向负载

PERMISSIBLE OVERHUNG LOAD AND THRUST LOAD

电动机 (圆轴型) → P217
减速器 → P217

Motor (Round Shaft) → P217
Gearhead → P217

■ 减速器的容许负载惯性惯量 J

PERMISSIBLE LOAD INERTIA J FOR GEARHEAD

→ P218 → P218

■ 外形图 (单位 mm)

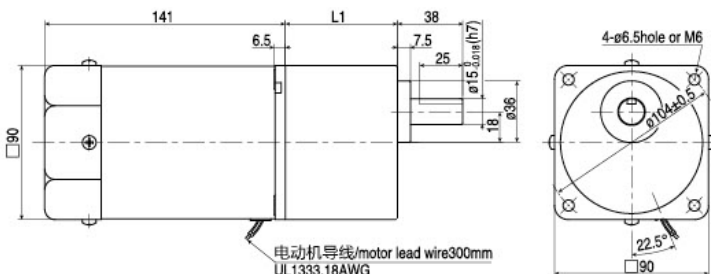
DIMENSIONS (Unit mm)

减速器附有安装用螺丝

Mounting screws are included with gearhead.

● 导线型 Lead wiring Type ①

重量 Weight: 电动机 Motor 3.2kg 减速器 Gearhead 1.5kg



电动机型号 Motor Model	减速器型号 Gearhead Model	减速比 Gear Ratio	L1
5IK90GU-AF 5IK90GU-EF 5IK90GU-CF 5IK90GU-HF 5IK90GU-SF	5GU□KB	3~200	65.5

- 减速器型号的□中为减速比的数值
- Enter the gear ratio in the box (□) within the model name

连接图 CONNECTION DIAGRAMS

- 运转方向指从电动机轴看来的方向。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。
- 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.
- Name indicated in the list is pinion shaft type, also valid for the equivalent round.

导线型Lead Wire Type		带端子箱型Terminal Box Type	
5IK90GU-AF、5IK90GU-EF 5IK90GU-CF、5IK90GU-HF	5IK90GU-SF	5IK90GU-AFT、5IK90GU-EFT 5IK90GU-CFT、5IK90GU-HFT	5IK90GU-SFT
顺时针方向CW 逆时针方向CCW	顺时针方向CW 逆时针方向CCW 若对换R、S、T中任意二条， 电动机作逆时针方向转动 To change the rotation direction change any two connections between R.S and T.	顺时针方向CW 逆时针方向CCW 若对换R、S、T中任意二条， 电动机作逆时针方向转动 To change the rotation direction change any two connections between R.S and T.	顺时针方向CW 逆时针方向CCW 若对换R、S、T中任意二条， 电动机作逆时针方向转动 To change the rotation direction change any two connections between R.S and T.

● 请注意 Note:

- 单相电动机运转方向的转换应在电动机停止后进行。
- 若在电动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.