

直流电动机 DC MOTORS

60W

90mm



电机性能参数 MOTOR PERFORMANCE PARAMETERS

型号 Model	电压 Voltage V	输出功率 Out put Power W	空载参数No-load Parameters		负载参数Load Parameters			电刷寿命 Brush Life H	电机重量 Motr Weight Kg
			转速Speed r/min	电流Current A	转速Speed r/min	力矩Torque mN.m	电流Current A		
Z5D60-12□	12	60	3000	2.0 Max	2600	220	9.0	2000	2.2
Z5D60-24□	24	60	3100	1.0 Max	2800	205	3.5	2000	2.2
Z5D60-90□	90	60	3100	0.3 Max	2900	198	1.0	2000	2.2

● 电机电压、功率及转速可在配件尺寸等条件下根据客户要求定制。

● Motor voltage, power and speed will be customized accrding to his requestment under the allowed circumstance of adoptable dimension.

种类 TYPE

电动机 MOTOR

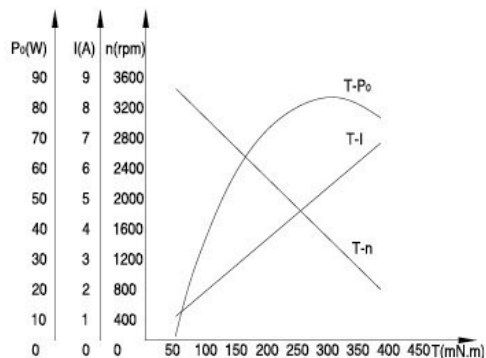
机型 Type	型号 Model	
	齿轮轴型 Pinion Shaft	圆轴型 Round Shaft
导线型 Lead Wire	Z5D60-12GU	Z5D60-12A
Type	Z5D60-24GU	Z5D60-24A
	Z5D60-90GU	Z5D60-90A

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

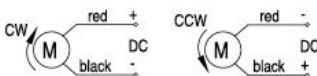
减速器种类 Gearhead Type	减速器型号 Gearhead Model	减速比 Gear Ratio
长寿命·低噪音 Long Life·Low Noise	5GU□K(B)	3、3.6、5、6、7.5、9、 12.5、15、18、25、30、 36、50、60、75、90、 100、120、150、180、200
	5GU10XK(中间)减速器Mid-gearbox)	

● 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

电机特性曲线 Characteristic Curve of Motor



电机接线图 Wiring Diagram of Motor



● 标准引出线长度: 300mm±10, 型号: UL1015 规格: AWG16; 电机引出线长度, 型号在配件尺寸等条件允许的情况下可根据客户需求定制

● Stanclard length of lead wire: 300mm±10, model: UL1015 type: AWG16; lead wire length, model will be customised by dient requestmant under allowed circumstance of adoptable dimension

■ 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
- 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。
- 转速是以电动机的额定转速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 gear ratio in the box (□) within the model name.
- Indicates the same rotating direction of the motor while the others rotate in the opposite direction.
- The speed is calculated by dividing the motor's synchronous speed 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
	转速Speed r/min	933	777	560	466	373	311	224	186	155	112	93	77	56	46	37	31	28	23	18	15	14
Z5D60-24GU	5GU□K(B)	0.49	0.59	0.82	0.99	1.24	1.49	1.86	2.24	2.68	3.37	4.05	4.86	6.75	8.10	10.1	10.8	12.0	14.4	18.1	20.0	20.0
		5.07	6.08	8.45	10.1	12.6	15.2	19.0	22.8	27.4	34.3	41.3	49.6	68.9	82.6	103	110	123	147	184	200	200

■ 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页

Motor (Round Shaft) →P217

减速器→P217页

Gearhead→P217

■ 减速器的容许负载惯性惯量J

PERMISSIBLE LOAD INERTIA J FOR GEARHEAD

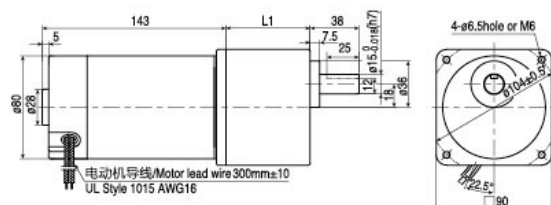
→P218页→P218

■ 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

重量 Weight: 电动机 Motor 2.2kg 减速器 Gearhead 1.5kg



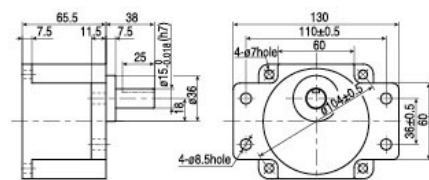
电动机型号 Motor Model	减速器型号 Gearhead Model	减速比 Gear Ratio	L1
Z5D60-12GU	5GU□K(B)	3~200	65.5
Z5D60-24GU			
Z5D60-90GU			

- 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

● 凸缘安装型减速器 Flange Mounting Reducer

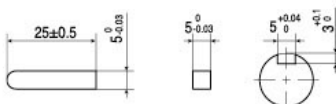
可安装在GU齿轮轴型上 Can be Mounted on GU Type gear shaft 5GU□K

重量 Weight: 1.5kg



● 键-键槽 (减速器附件)

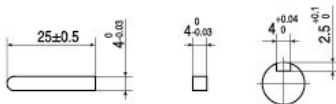
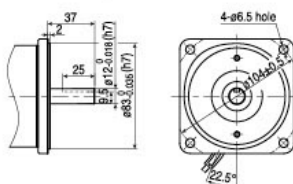
Key-keyway (The key is included with the gearhead)



● 圆轴型的转轴部分 Shaft Section of Round Shaft Type

除重量及轴部外, 电动机外形与齿轴型相同

Excluding weight and the shaft section Motor shape are the same as those of the pinion shaft



● 中间减速器 Mid-gearbox

可安装在GU齿轮轴型上

Can be connected to GU pinion Shaft type 5GU10XK

重量 Weight: 0.65kg

