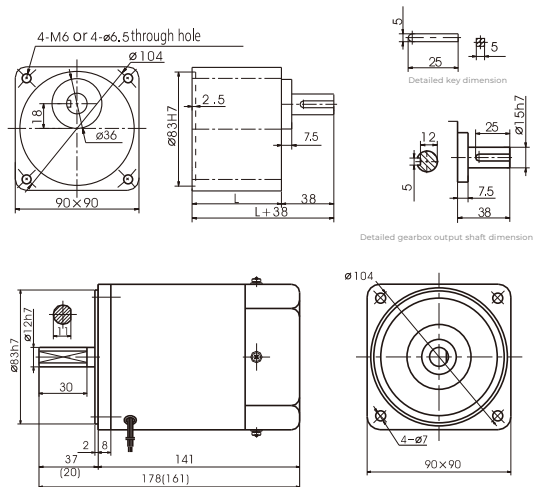




Detailed gearbox output shaft dimension



	Reduction Ratio	(mm)	(kg)
Gearbox	5GU3K-GU9K	65	1.21
	5GU10K-GU18K		1.30
	5GU20K-GU75K		1.40
	5GU90K-GU200K		1.45
	5GU300K-GU500K		
Motor			3.20

*THE VALUE IN THE () IS THE VALUE OF SMALL SHAFT MOTOR

LIST OF MOTOR CHARACTERISTICS

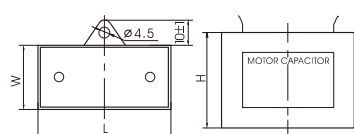
Model of Motor		Output	Voltage	Frequency	Poles	Duty	Speed	Current	Torque		Starting Torque		Capacitor/Ve
Motor	Motor with gear shaft	W	V	Hz	P		r/min	A	N.m	kgf.cm	N.m	kgf.cm	μF/VAC
51K90A-AF	51K90GU-AF	90	1ph110	50	4	CONT	1350	1.40	0.64	6.40	0.50	5.00	20.0/250
51K90A-CF	51K90GU-CF	90	1ph220	50	4	CONT	1350	0.59	0.64	6.40	0.48	4.80	5.0/500
51K90A-SF	51K90GU-SF	90	3ph220	50	4	CONT	1300	0.66	0.66	6.60	2.40	24.0	/
51K90A-S3F	51K90GU-S3F	90	3ph380	50	4	CONT	1300	0.28	0.66	6.60	2.40	24.0	/
51K90A-DF		90	1ph220	50	2	CONT	2800	0.79	0.30	3.00	0.34	3.40	6.0/500

THE CAPACITOR CAPACITANCE WILL BE DIFFERENT UNDER DIFFERENT VOLTAGE. A CORRECT CAPACITOR CAPACITANCE IS REQUIRED TO MATCH THE APPLIED VOLTAGE. WRONG CAPACITOR CAPACITANCE IS THE CAUSE OF TROUBLE YOU MUST CONFIRM A CORRECT VOLTAGE AND SELECT A CORRECT MODEL WHEN YOUR PURCHASE ORDER IS PLACED.

ALLOWABLE TORQUE ON GEARBOX

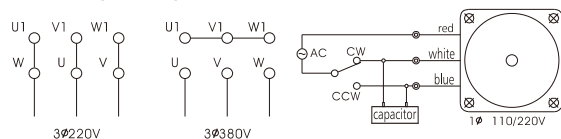
Frequency	Reduction Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
50Hz	Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
		N.m	1.55	1.86	2.58	3.10	3.87	4.64	4.65	5.81	6.98	8.37	8.40	10.5	12.6	15.1	16.8	19.6	19.6	19.6	19.6	19.6	19.6	19.6
	Allowable Torque	kgf.cm	15.8	19.0	29.2	31.6	39.6	47.2	47.4	59.3	71.2	85.4	85.7	107	129	154	171	200	200	200	200	200	200	200
60Hz	Output Shaft Speed	r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
		N.m	1.35	1.62	2.25	2.70	3.37	4.04	4.05	5.06	6.07	7.29	7.32	9.15	11.0	13.2	14.6	18.3	19.6	19.6	19.6	19.6	19.6	19.6
	Allowable Torque	kgf.cm	13.8	16.5	23.0	27.6	34.4	41.2	41.3	51.6	61.9	74.4	74.7	93.4	112	135	149	187	200	200	200	200	200	200

CAPACITOR



capacity μF	Voltage	L±1	W±1	H±1	Type
Allowable Deviation±5%	V	mm	mm	mm	
5.0	500	47	23	36	Down-lead
6.0	500	47	23	36	
20.0	250	58	23	39	

WIRING DIAGRAM



Frequency	Reduction Ratio		180	200	300	500
50Hz	Output Shaft Speed	r/min	8	7.5	5	3
		N.m	19.6	19.6	19.6	19.6
	Allowable Torque	kgf.cm	200	200	200	200
60Hz	Output Shaft Speed	r/min	10	9	6	3.6
		N.m	19.6	19.6	19.6	19.6
	Allowable Torque	kgf.cm	200	200	200	200