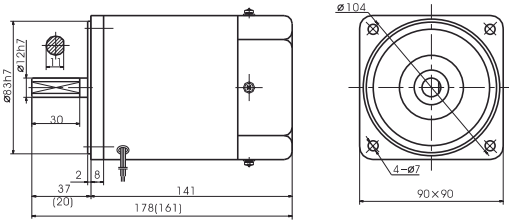


Motor Overall Dimension

Induction Motor 90W



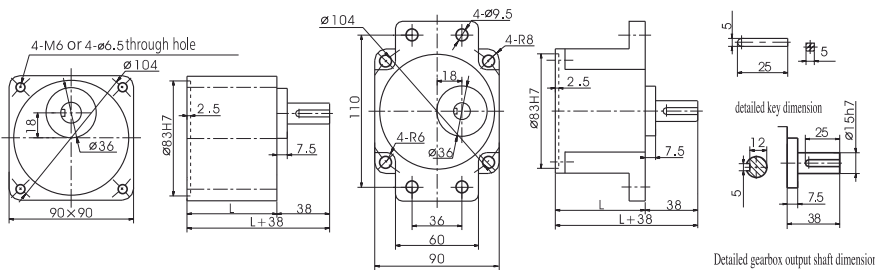
● The value in the () is the value of small gear shaft motor.

List of Motor Characteristics

Model of Motor		Output W	Voltage V	Frequency Hz	Poles P	Duty	Rated			Starting Torque		Capacitor/ve μF/VAC	
Motor	Motor with gear shaft						Speed r/min	Current A	Torque		N.m		kgf.cm
								N.m	kgf.cm				
5IK90A-AF	5IK90GU-AF	90	1ph110	50	4	CONT	1350	1.40	0.64	6.40	0.50	5.00	20.0/250
5IK90A-CF	5IK90GU-CF	90	1ph220	50	4	CONT	1350	0.70	0.64	6.40	0.48	4.80	5.0/450
5IK90A-SF	5IK90GU-SF	90	3ph220	50	4	CONT	1300	0.66	0.66	6.60	2.40	24.0	/
5IK90A-SsF	5IK90GU-SsF	90	3ph380	50	4	CONT	1300	0.38	0.66	6.60	2.40	24.0	/
5IK90A-DF		90	1ph220	50	2	CONT	2800	0.79	0.30	3.00	0.34	3.40	6.0/450

● 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.

Overall Dimension of Gearbox



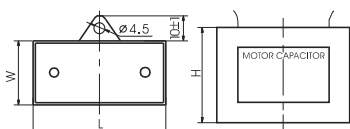
	Reduction Ratio	L(mm)	(kg)
Gearbox	5GU3K-GU9K	65	1.21
	5GU10K-GU18K		1.30
	5GU20K-GU75K		1.40
	5GU90K-GU200K		1.45
Motor			3.40

Allowable Torque on Gearbox

Model of Gearbox: 5GU □ K

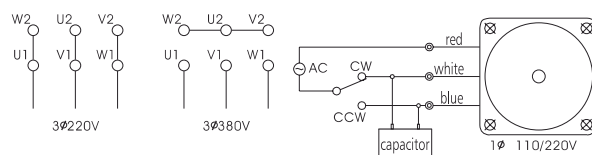
Frequency	Reduction Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
50Hz	Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
	Allowable Torque	N.m	1.55	1.86	2.58	3.10	3.87	4.64	4.65	5.81	6.98	8.37	8.40	10.5	12.6	15.1	16.8	19.6	19.6	19.6	19.6	19.6	19.6	19.6
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
	Allowable Torque	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
		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 V	L± 1 mm	W± 1 mm	H± 1 mm	Type
5.0	450	47	22	34	Down-lead
6.0	450	47	26	38	
20.0	250	68	32	56	

Wiring Diagram



Model of Gearbox: 5GU □ K

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