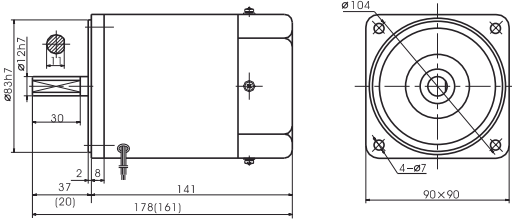


Motor Overall Dimension

Induction Motor 120W



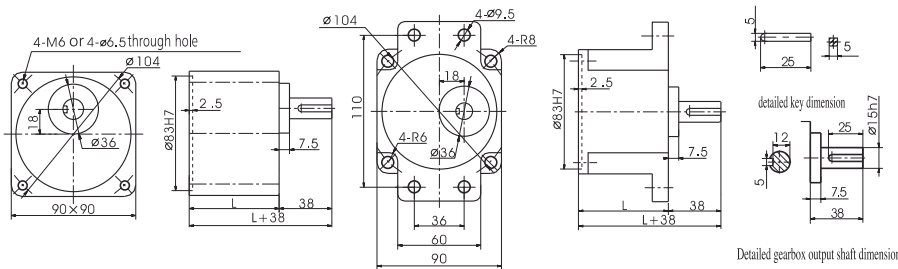
• The value in the () is the value of small gear shaft motor.

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
5IK120A-AF	5IK120GU-AF	120	1ph110	50	4	CONT	1250	1.80	0.90	9.00	0.65	6.50	25.0/250
5IK120A-CF	5IK120GU-CF	120	1ph220	50	4	CONT	1300	0.92	0.87	8.65	0.75	7.50	7.0/450
5IK120A-SF	5IK120GU-SF	120	3ph220	50	4	CONT	1300	0.83	0.87	8.65	3.20	32.00	/
5IK120A-S3F	5IK120GU-S3F	120	3ph380	50	4	CONT	1300	0.48	0.87	8.65	3.20	32.00	/
5IK120A-DF		120	1ph220	50	2	CONT	2800	1.20	0.40	4.00	0.51	5.05	8.0/450

• 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



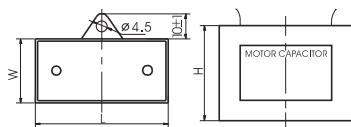
	Reduction Ratio	L(mm)	(kg)
Gearbox	5GU3K-GU9K	65	1.21
	5GU10K-GU18K		1.30
	5GU20K-GU75K		1.40
	5GU90K-GU200K		1.45
Motor			3.60

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
Allowable Torque	N.m	2.14		2.57	3.57	4.29	5.38	6.43	6.43	8.05	9.66	11.6	11.6	14.6	17.5	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
		kgf.cm	21.8	26.2	36.4	43.8	54.7	65.6	65.6	82.1	98.6	118	118	149	196	200	200	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
	Allowable Torque	N.m	1.80	2.16	3.00	3.60	4.49	5.39	5.39	6.75	8.10	9.72	9.72	12.2	14.6	17.6	19.5	19.6	19.6	19.6	19.6	19.6	19.6	19.6
		kgf.cm	18.4	22.0	30.6	36.7	45.8	55.0	55.0	68.9	82.7	99.2	99.2	124	149	180	199	200	200	200	200	200	200	200

Capacitor



capacity µF	Voltage V	L±1 mm	W±1 mm	H±1 mm	Type	
Allowable Deviation±5%	7.0	450	47	26	38	Down-lead
	8.0	450	47	26	38	
	25.0	250	68	32	56	

Model of Gearbox: 5GU □ K

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

Wiring Diagram

