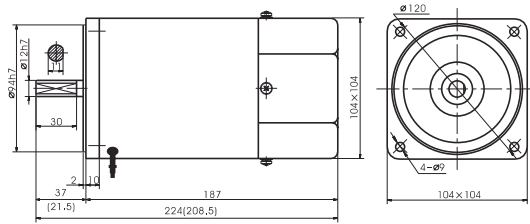


## Motor Overall Dimension



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

## Induction Motor 120W

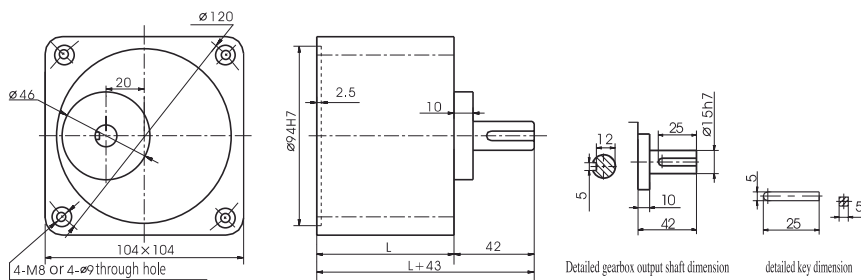


## List of Motor Characteristics

Model of Motor		Output	Voltage	Frequency	Poles	Duty	Rated			Starting Torque		Capacitor/Ve	
Motor	Motor with gear shaft	W	V	Hz	P		Speed	Current	Torque	N.m	kgf.cm	μF/VAC	
							r/min	A	N.m	kgf.cm	N.m	kgf.cm	μF/VAC
6IK120A-AF	6IK120GU-AF	120	1ph110	50	4	CONT	1350	1.90	0.85	8.50	0.59	5.85	25.0/250
6IK120A-CF	6IK120GU-CF	120	1ph220	50	4	CONT	1350	0.92	0.85	8.50	0.75	7.50	8.0/450
6IK120A-SF	6IK120GU-SF	120	3ph220	50	4	CONT	1350	0.89	0.85	8.50	3.50	35.00	/
6IK120A-S <sub>3</sub> F	6IK120GU-S <sub>3</sub> F	120	3ph380	50	4	CONT	1350	0.51	0.85	8.50	3.50	35.00	/
6IK120A-DF		120	1ph220	50	2	CONT	2800	0.88	0.40	4.00	0.42	4.15	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



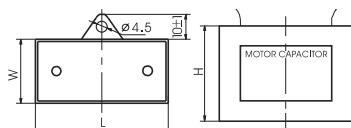
Gearbox	Reduction Ratio	L(mm)	(kg)		
	6GU3K-GU9K			72	1.87
	6GU10K-GU18K				
6GU20K-GU200K	2.75				
Motor			4.80		

## Allowable Torque on Gearbox

Model of Gearbox: 6GU □ K

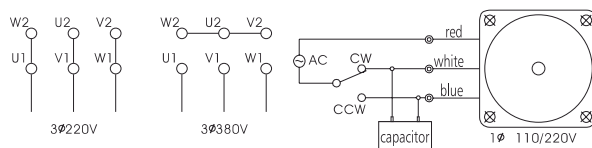
Frequency	Reduction Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
			50Hz	Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16
Allowable Torque	N.m	2.06		2.48	3.44	4.13	5.16	6.19	6.19	7.75	9.30	11.2	11.2	14.0	16.8	20.0	22.4	28.0	33.6	39.2	39.2	39.2	39.2	39.2
		kgf.cm	21.0	25.3	35.1	42.1	52.6	63.2	63.2	79.1	94.9	114	114	143	171	206	228	286	343	400	400	400	400	400
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	1.74	2.09	2.90	3.48	4.35	5.22	5.22	6.54	7.85	9.42	9.42	11.8	14.2	17.0	18.9	23.6	28.4	35.5	39.2	39.2	39.2	39.2
		kgf.cm	17.8	21.3	29.6	35.5	44.4	53.3	53.3	69.7	80.0	96.1	96.1	121	146	174	193	241	289	362	400	400	400	400

## Capacitor



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

## Wiring Diagram



Model of Gearbox: 6GU □ K

Frequency	Reduction Ratio		180	200
			50Hz	Output Shaft Speed
Allowable Torque	N.m	39.2		39.2
		kgf.cm	400	400
60Hz	Output Shaft Speed	r/min	10	9
	Allowable Torque	N.m	39.2	39.2
		kgf.cm	400	400