



# Brake Motor 120W

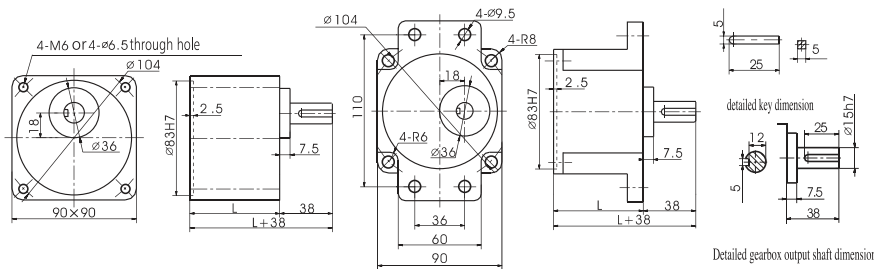


## List of Motor Characteristics

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	
5RK120A-AMF	5RK120GU-AMF	120	1ph110	50	4	30Min	1300	2.10	0.90	9.00	0.78	7.80	30.0/250
5RK120A-CMF	5RK120GU-CMF	120	1ph220	50	4	30Min	1300	0.92	0.87	8.65	0.75	7.50	7.0/450
5RK120A-SMF	5RK120GU-SMF	120	3ph220	50	4	30Min	1300	0.86	0.87	8.65	3.00	30.00	/
5RK120A-S <sub>3</sub> MF	5RK120GU-S <sub>3</sub> MF	120	3ph380	50	4	30Min	1300	0.51	0.87	8.65	3.00	30.00	/

●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



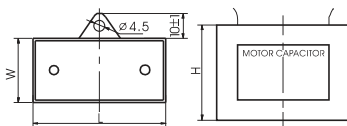
	Reduction Ratio	L(mm)	Weight (kg)
Gearbox	5GU3K-GU9K	65	1.21
	5GU10K-GU18K		1.30
	5GU20K-GU75K		1.40
	5GU90K-GU200K		1.45
Motor			3.80

## 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
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

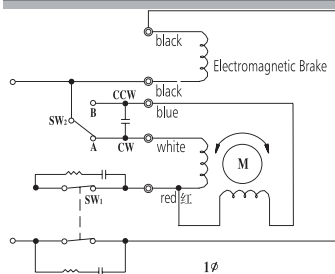


capacity μF	Voltage	L±1	W±1	H±1	Type
7.0	450	47	26	38	Down-lead
30.0	250	68	32	56	
Allowable Deviation: ±5%					

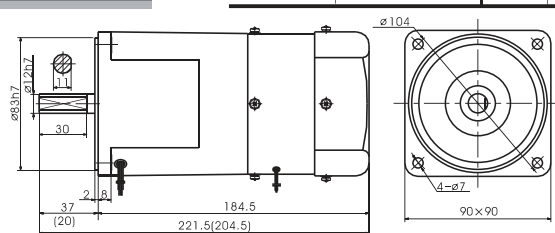
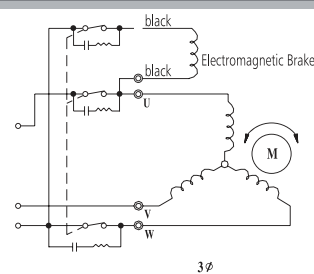
### Model of Gearbox: 5GU □ K

Frequency	Reduction Ratio		180	200	
			50Hz	Output Shaft Speed	r/min
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



## Motor Overall Dimension



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