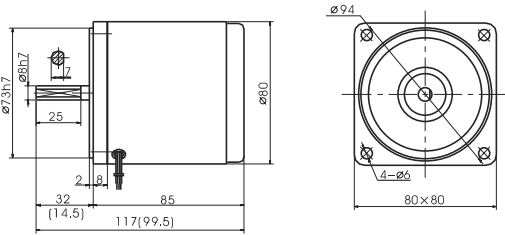


## Motor Overall Dimension



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

## Induction Motor **25W**

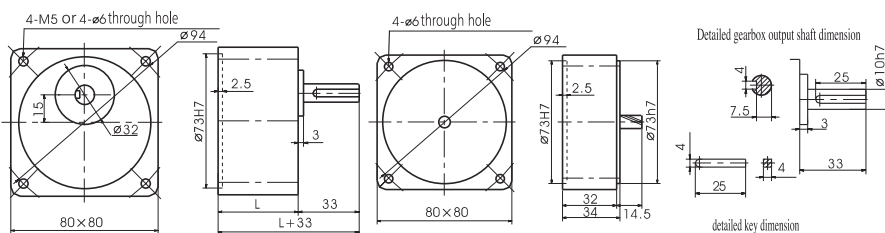


## List of Motor Characteristics

Model of Motor		Output	Voltage	Frequency	Poles	Duty	Rated				Starting Torque		Capacitor/Ve
Motor	Motor with gear shaft	W	V	Hz	P		Speed r/min	Current A	Torque N.m kgf.cm		N.m	kgf.cm	μF/VAC
4IK25A-A	4IK25GN-A	25	1ph110	50	4	CONT	1350	0.45	0.18	1.80	0.18	1.80	7.0/250
4IK25A-C	4IK25GN-C	25	1ph220	50	4	CONT	1350	0.24	0.18	1.80	0.18	1.80	1.8/450
4IK25A-S	4IK25GN-S	25	3ph220	50	4	CONT	1300	0.25	0.19	1.88	0.19	1.88	/
4IK25A-S <sub>3</sub>	4IK25GN-S <sub>3</sub>	25	3ph380	50	4	CONT	1300	0.14	0.19	1.88	0.19	1.88	/
4IK25A-D		25	1ph220	50	2	CONT	2700	0.28	0.09	0.90	0.09	0.90	2.5/450

• 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



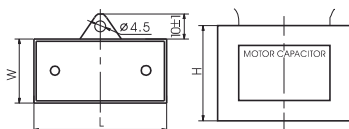
	Reduction Ratio	L(mm)	(kg)
Gearbox	4GN3K-GN18K	32	0.43
	4GN20K-GN50K	43.5	0.57
	4GN60K-GN200K		0.61
Intermediate Gearbox	4GN10X	32	0.43
Motor			1.64

## Allowable Torque on Gearbox

Model of Gearbox: 4GN □ K

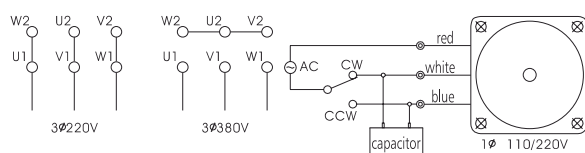
Frequency	Reduction Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150
50Hz	Output Shaft Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
		Allowable Torque	N.m	0.52	0.63	0.87	1.05	1.31	1.57	1.74	2.19	2.62	3.15	3.15	3.94	4.72	5.66	6.29	7.12	7.84	7.84	7.84	7.84	7.84
	kgf.cm		5.3	6.4	8.9	10.7	13.4	16.0	17.8	22.3	26.7	32.1	32.1	40.2	48.2	57.8	64.2	72.6	80.0	80.0	80.0	80.0	80.0	80.0
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	0.43	0.51	0.72	0.85	1.07	1.28	1.43	1.78	2.15	2.57	2.58	3.22	3.86	4.64	5.16	5.82	6.99	7.84	7.84	7.84	7.84
	kgf.cm		4.4	5.2	7.3	8.7	10.9	13.1	14.6	18.2	21.9	26.2	26.3	32.9	39.4	47.3	52.6	59.4	71.3	80.0	80.0	80.0	80.0	80.0

## Capacitor



capacity μF	Voltage V	L±1 mm	W±1 mm	H±1 mm	Type
1.8	450	38	18	28	Down-lead
2.5	450	38	18	28	
7.0	250	47	26	38	

## Wiring Diagram



Model of Gearbox: 4GN □ K

Frequency	Reduction Ratio		180	200
50Hz	Output Shaft Speed	r/min	8	7.5
		Allowable Torque	N.m	7.84
			kgf.cm	80.0
60Hz	Output Shaft Speed	r/min	10	9
		Allowable Torque	N.m	7.80
			kgf.cm	80.0