

90 W

K Series
Single Phase
110/220



Motor Specification

Motor	Model	Output	Volt	Freq	Pole	Duty	Rated				Start Torque		Capacitor
							Speed	Current	Torque		N.m	kgf.cm	μf/VAC
		W	V	Hz	P		r/min	A	N.m	kgf.cm	N.m	kgf.cm	μf/VAC
AR90-1590S4-F	GR5K90GU-AF	90	1ph110	50	4	30Min	1350	1.55	0.64	6.40	0.48	4.80	25.0/250
AR90-3590S4-F	GR5K90GU-CF	90	1ph220	50	4	30Min	1350	0.76	0.64	6.40	0.61	6.10	6.0/450

Gearbox

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	180	200
			50HZ	Speed	r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12
	Allowable Torque	N.m	1.55	1.86	2.58	3.1	3.87	4.64	4.65	5.81	6.98	8.37	8.4	10.5	12.6	15.1	16.8	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
		kgf.cm	15.8	19	29.2	31.6	39.6	47.2	47.4	59.3	71.2	85.4	85.7	107	129	154	171	200	200	200	200	200	200	200	200	200
60HZ	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	10	9
	Allowable Torque	N.m	1.35	1.62	2.25	2.7	3.37	4.04	4.05	5.06	6.07	7.29	7.32	9.15	11	13.2	14.6	18.3	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
		kgf.cm	13.8	16.5	23	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	200	200

Motor Dimension

Single Phase Connection Diagrams

Gearhead Dimension

	Reduction Ratio	Size	Kg
	5GU3K-GU9K	65	1.21
Gearbox	5GU10K-GU18K	65	1.3
	5GU20K-GU75K	65	1.4
	5GU90K-GU200K	65	1.45
Motor			3.4

Capacitor

Capacity μf	Voltage	L±1	W±1	H±1	Type
Allowable Deviation ±5%					
6	450	47	26	38	Down-Lead
25	250	68	32	56	