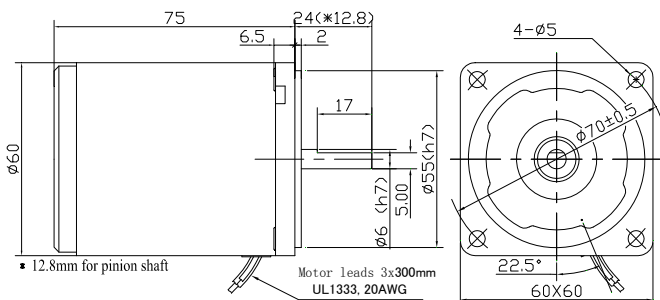


Reversible Motors 6W

Frame Size: □60mm (□2.36 in.)

Motor Dimensions:



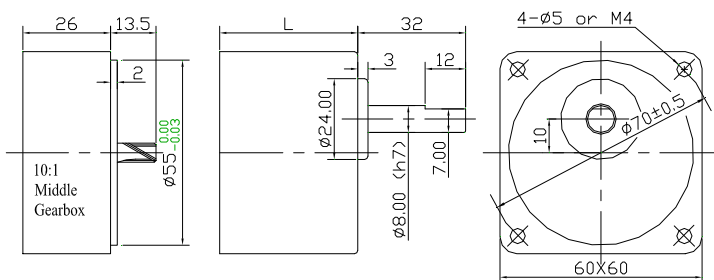
Reversible motor specifications-30 minute rating (leads wire type)



Model		Output Power	Voltage	Freq.	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor
Pinion Shaft	Round Shaft	W	Vac	Hz	Amp	mN.m	mN.m	r/min	μF/V
2RK6GN-A	2RK6A-A	6	1ph110	50	0.265	60	48	1200	4
				60	0.232	55	40	1450	
2RK6GN-C	2RK6A-C	6	1ph220 1ph230	50	0.145	55	48	1200	1
					0.15			1450	

These motors have built in thermal protectors: If a motor overheats the thermal protector opens and the motor stops. When the motor temperature drops to the rated level, the thermal protector closes and the motor restarts.

Gearhead dimensions:



Item	Ratio	Weight		
		L mm	Kg	lb
Gearhead (2GNxxK)	3 - 18	32	0.24	0.53
	25 - 50	42	0.3	0.66
	60 - 200		0.33	0.73
Middle gearbox(10:1)			0.2	0.44
Motor			0.7	1.54

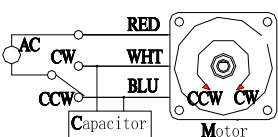
Gear Motor-Torque Table

Model	Gear Ratio	X:1	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200																						
																								Efficiency	81										73					66					
																								Speed	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz
2RK6GN-A 2RK6GN-C	2GN□K	50Hz	Nm	0.12	0.14	0.19	0.23	0.29	0.35	0.49	0.58	0.7	0.88	1.1	1.3	1.6	1.9	2.4	2.9	3	3	3	3	3																					
			Kg.cm	1.22	1.43	1.94	2.35	2.96	3.57	5	5.92	7.14	8.98	11.2	13.3	16.3	19.4	24.5	29.6	30	30	30	30	30																					
		60Hz	Nm	0.1	0.12	0.16	0.19	0.24	0.29	0.41	0.49	0.58	0.73	0.88	1.1	1.3	1.6	2	2.4	2.6	3	3	3	3	3																				
			Kg.cm	1.02	1.22	1.63	1.94	2.45	2.96	4.18	5	5.92	7.45	8.98	11.2	13.3	16.3	20.4	24.5	2.65	30	30	30	30	30																				

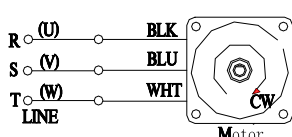
Enter the gear ratio in the box □. Colored background indicates the output shaft rotate in the same direction as the motor shaft.
 The speed is calculated based on the synchronous speed (50 Hz: 1500rpm; 60Hz: 1800 rpm) by the gear ratio.
 Higher gear ratio (>200) can be achieved by adding a middle gearbox (10:1 only). Using Middle Gearbox limits Max.torque to 3Nm (30kg.cm)

Connection Diagrams:

Lead Wire Single Phase

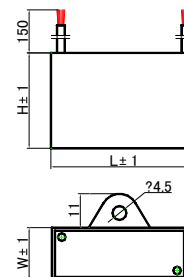


Lead Wire Three Phase



Capacitor:

Value	Dimensions		
	uF	V	W
2.0 - 2.5	250	37	28
0.5 - 1.5	450	37	28
3.5 - 4.0	250	37	18
1.8 - 2.5	450	37	18



6W Frame Size: □60mm (□2.36 in.)

● **General specifications for AC motors:**

Item	Specifications
Insulation Resistance	100 MΩ or more when 500VDC is applied between the windings and the frame
Dielectric Strength	Sufficient to withstand 1.5 kV at 50/60Hz applied between the windings and the frame for 1 minute
Temperature Rise	Temperature rise of windings should be lower than 80°C. (60°C with fan)
Insulation Class	Class B (130°C)
Overheat Protection	Build in thermal protector (automatic return); Class B (O: 120±5°C, C: 75±15°C)
Ambient Temperature	14°F-104°F (-10°C~+40°C) [three-Phase: 14°F-122°F (-10~+50°C)] (Nonfreezing)
Ambient Humidity	85% or less (Noncondensing)
Degree of Protection	Lead wire type: IP20; Terminal Box Type: IP54

Notes: Above specifications is for motor operated under normal ambient temperature and humidity conditions

● **Permissible load for round shaft motors & Permissible Load Inertia at the Motor Shaft**

Frame Size	Shaft Dia. mm	Permissible overhung load (from end of shaft)				Permissible Load Inertia at the Motor Shaft	
		10 mm		20 mm		J (×10 kg. m ²)	GD (kg. m ²)
		lb	N	lb	N		
□60	6	11.2	50	18	80	0.062	0.25

Permissible thrust load: Avoid thrust load as much as possible or keep it to no more than half the motor weight

● **Permissible load for gearheads**

Frame Size	Gear Ratio	Maximum Permissible torque		Permissible overhung load (from end of shaft)				Permissible thrust load	
		lb-in	N.m	10 mm		20 mm		lb	N
				lb	N	lb	N		
□60mm (□2.3")	3 - 18	26	3	11.2	50	18	80	6.7	30
	25 - 200			27	120	40	180		

● **Heat Radiation Plate Dimension (Material: Aluminum) : 115×115 (for 6W motor)**

● **Product Number Codes for Motors:**

2	R	K	6	R	GN	-	C	F
Frame size 2: 60mm 3: 70mm 4: 80mm 5: 90mm 6: 100mm	Motor Type I: Induction R: Reversible T: Torque	Series K: k series	Power 6 = 6W	Control R: speed control motor	Shaft A: round w/ flat A1: round w/keyway GN: Normal Pinion GU: Enhanced Pinion		Voltage & Poles A: Single phase 100~120VAC, 4P B: Single phase 100~120VAC, 2P C: Single phase 220~240VAC, 4P D: Single phase 220~240VAC, 2P S: Three phase 220~240VAC, 4P T: Three phase 220~240VAC, 2P S3: Three phase 380~415VAC, 4P T3: Three phase 380~415VAC, 2P	Accessory F: W/Fan FF: W/forced Fan M: W/Brake T: W/Terminal Box

● **Product Number Codes for Gearheads:**

2	GN	50	K
Frame size 2: 60mm 3: 70mm 4: 80mm 5: 90mm 6: 100mm	Gear Type GN: Normal Gear GU: Enhanced Gear	Gear Ratio 50 = 50:1	Bearing K: Normal Ball Bearing KB: Enhanced for GU Type B: Sleeve bearing

● **Terminal Boxes:**

