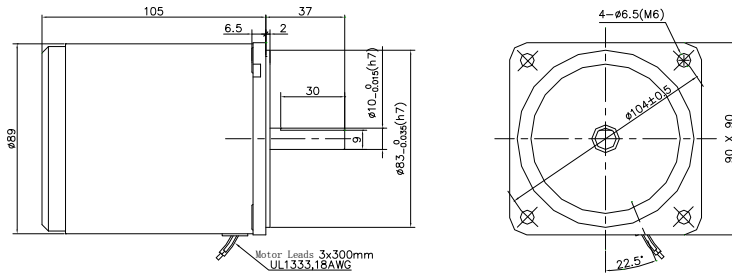


● Motor Dimensions:



Reversible Motors 40W
Frame Size: □90mm (□3.54 in.)

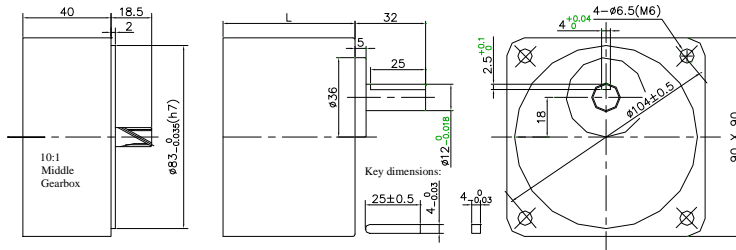


● Reversible motor specifications-30 minute Rating (leads wire type)

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
5RK40GN-A	5RK40A-A	40	1ph110	50	0.78	300	315	1250	15
				60	1.05		260	1550	
5RK40GN-C	5RK40A-C	40	1ph220	50	0.45	270	315	1250	3
			1ph230		0.4			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 (5GNxxK)	3 - 18	42	0.73	1.61
	25 - 50	60	1.03	2.27
	60 - 200		1.13	2.49
Middle gearbox(10:1)			0.6	1.32
Motor			2.3	5.06

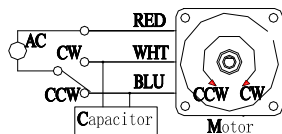
● Gear Motor-Torque Table

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 RPM	500	417	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5		
5RK40GN-A 5RK40GN-C	5GN□K	50Hz	Nm	0.77	0.92	1.3	1.5	1.9	2.3	3.2	3.8	4.6	5.7	6.9	8.3	10	10	10	10	10	10	10	10	10	
			Kg.cm	7.85	9.38	13.2	15.3	19.4	23.4	32.6	38.7	46.9	58.1	70.4	84.7	100	100	100	100	100	100	100	100	100	
		60Hz	Nm	0.63	0.76	1.1	1.3	1.6	1.9	2.6	3.2	3.8	4.7	5.7	6.8	8.6	10	10	10	10	10	10	10	10	10
			Kg.cm	6.42	7.75	11.2	13.2	16.3	19.3	26.5	32.6	38.7	47.9	58.1	69.3	87.7	100	100	100	100	100	100	100	100	100

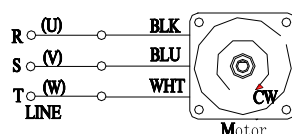
● Enter the gear ratio in the box □. Colored background indicates the output shaft rotate in the same direction as the motor shaft.
 ● The speed is calculated based on the synchronous speed (50 Hz: 1500rpm; 60Hz: 1800 rpm) by the gear ratio.
 ● Higher gear ratio (>200) can be achieved by adding a middle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

● Connection Diagrams:

● Lead Wire Single Phase

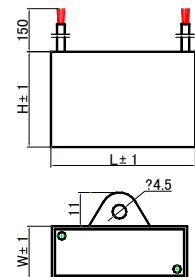


● Lead Wire Three Phase



● Capacitor:

Value	Dimensions			
	uF	V	L H W	
2.0 - 2.5	250	37	14	28
0.5 - 1.5	450			
10 - 12	250	47	26	38
6 - 8	450			



40W Frame Size: □90mm (□3.54 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		
□90	10	31.5	140	44.9	200	1.1	4.6
	12	53.9	240	60.7	270		

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	
				10 mm		20 mm			
		lb-in	N.m	lb	N	lb	N	lb	N
□90	3 - 18	89	10	56.2	250	78.7	350	22	100
	25 - 200			67.4	300	101.1	450		

● **Heat Radiation Plate Dimension (Material: Aluminum) : 165×165 (for 40W motor)**

● **Product Number Codes for Motors:**

5	R	K	40	R	GN	-	C	F
Frame size	Motor Type	Series	Power	Control	Shaft		Voltage & Poles	Accessory
2: 60mm	I: Induction	K: k series	40 = 40W	R: speed control motor	A: round w/ flat A1: round w/keyway GN: Normal Pinion GU: Enhanced Pinion		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	F: W/Fan FF: W/forced Fan M: W/Brake T: W/Terminal Box

● **Product Number Codes for Gearheads:**

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

● **Terminal Boxes:**

