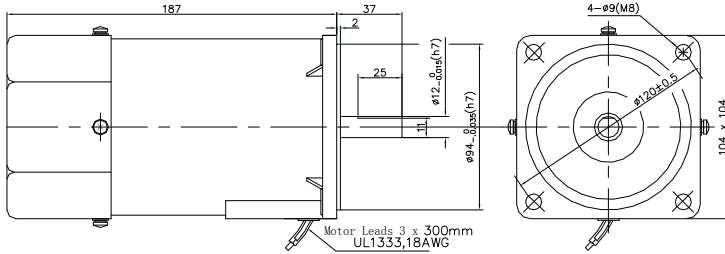


● Motor Dimensions:

Magnetic Brake Motors 140W (GU)

Frame Size: □104mm (□4.1 in.)



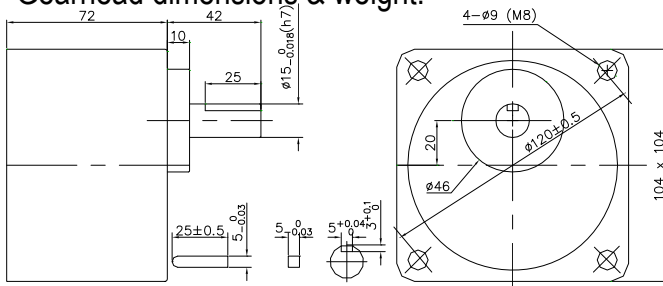
● Induction motor specifications-continuous Rating (leads wire type)



Model			Duty	Output power W	Voltage V	Freq. Hz	Current A	Starting torque mN.m	Rated torque mN.m	Rated speed r/min	CAP μF/VAC
(Lead wire type)											
Pinion	Shaft	Round Shaft									
6RK140GU-AM	6RK140A-AM	30min	140	1ph110	50	2.7	700	1080	1250	35	
					60	3		870	1550		
6RK140GU-CM	6RK140A-CM	30min	140	1ph220 1ph230	50	1.05 1.15	850	1040	1250	10	
6RK140GU-SM	6RK140A-SM	30min	140	3ph220	50	0.85	2700	1080	1250	-	
					60	0.75	2200	870	1550		

● 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 & weight:



Item	Ratio	Weight		
		L mm	Kg	lb
Gearhead (6GUxxK)	3 - 9	72	1.87	4.11
	10~18		2.10	4.62
	20 - 200		2.75	6.05
Motor		187	4.8	10.56

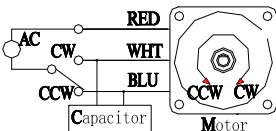
● Gear Motor-Torque Table

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
6RK120GU-AM 6RK120GU-CM 6IK120GU-SM	6GU□K	50Hz	Nm	2.6	3.1	4.4	5.2	6.6	7.9	9.9	11.8	14.2	17.8	21.4	25.7	35.6	40	40	40	40	40	40	40	40	40																		
			Kg.cm	26.5	31.6	44.8	53	67.3	80.6	101	120	144	181	218	262	263	400	400	400	400	400	400	400	400	400																		
		60Hz	Nm	2.1	2.5	3.5	4.2	5.3	6.3	7.9	9.5	11.4	14.4	17.2	20.7	28.7	34.5	40	40	40	40	40	40	40	40	40																	
			Kg.cm	21.4	25.5	35.7	42.8	54	64.2	80.6	96.9	116	147	175	211	292	352	400	400	400	400	400	400	400	400	400																	

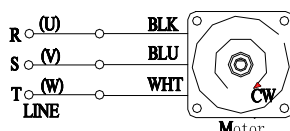
● Enter the gear ratio in the box □. Colored background indicates the output shaft rotate in the same direction as the motor shaft.
 ● The speed is calculated based on the synchronous speed (50 Hz: 1500rpm; 60Hz: 1800 rpm) by the gear ratio.
 ● Higher gear ratio (>200) can be achieved by adding a middle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

● Connection Diagrams:

● Lead Wire Single Phase

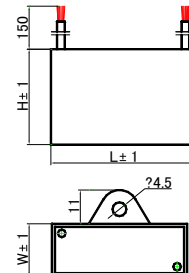


● Lead Wire Three Phase



● Capacitor:

Value	Dimensions			
	uF	V	L	H
3.5 - 4.0	250	37	18	28
1.8 - 2.5	450			
20 - 30	250	57	32	46
10 - 15	450			



140W(GU) Frame Size: □104mm (□4.1 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		
6IK	12	71.9	320	78.7	350	2	8

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		
6GU	3~200	354	40	247.2	1100	337.1	1500	67	300

● **Heat Radiation Plate Dimension (Material: Aluminum): 230×230 (for 6IK motor)**

● **Product Number Codes for Motors:**

6	I	K	140	R	GU	-	C	MF
Frame size	Motor Type	Series	Power	Control	Shaft		Voltage & Poles	Accessory
2: 60mm	I: Induction	K: k series	140 = 140W	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
3: 70mm	R: Reversible							
4: 80mm	T: Torque							
5: 90mm								
6: 100mm								

● **Product Number Codes for Gearheads:**

6	GU	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:**

