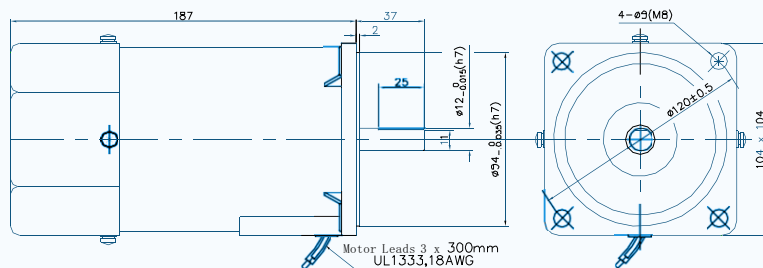


Induction Motors 180W(GJ)

Frame Size 104mm (4.1 inch)

EIKO AUTOMATION

EIKO™

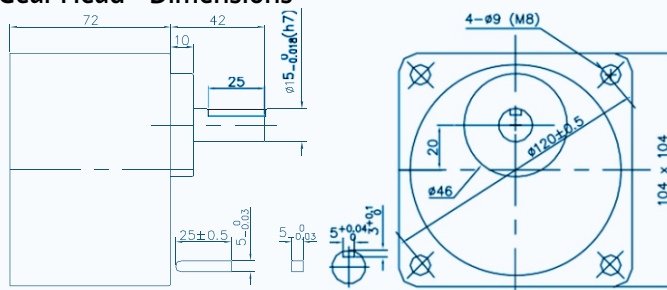


• Eiko Induction motor specifications-continuous Rating (lead wire)

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.m	μ F/V
61K180GU-A	61K180A-A	180	1ph100	50	3.2	900	1385	1250	45/250
				60	3.5		1120	1550	
61K180GU-C	61K180A-C	180	1ph220	50	1.4	1100	1385	1250	12/450
			1ph230		1.15			1450	
61K180GU-S	61K180A-S	180	3ph220	50	1.2	3400	1385	1250	-
				60	1	2700	1120	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.

• Eiko Gear Head - Dimensions



Item	Ratio	L mm	Weight	
			Kg	lb
Gearhead (6GUxxK)	3 - 19	72	1.87	4.11
	10 - 18		2.10	4.62
	20 - 200		2.75	6.05
Motor			4.8	10.56

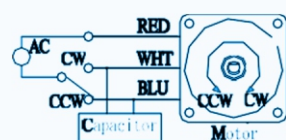
• Eiko Gear Motor - Torque Table

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 (r/min)		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	
		60Hz	RPM	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	9	
61K180GU-A	6GU□K	50Hz	Nm	3.4	4	5.6	6.7	8.4	10.1	12.6	15.2	18.2	22.8	27.4	32.9	40	40	40	40	40	40	40	40	40	
61K180GU-C			Kg.cm	34.6	40.8	57.1	68.3	85.6	103	128	155	185	232	279	335	400	400	400	400	400	400	400	400	400	
61K180GU-S		60Hz	Nm	2.7	3.3	4.5	5.4	6.8	8.2	10.2	12.3	14.7	18.5	22.2	26.6	37	40	40	40	40	40	40	40		
			Kg.cm	27.5	33.6	45.9	55.1	69.3	83.6	104	125	150	188	226	271	377	400	400	400	400	400	400	400		

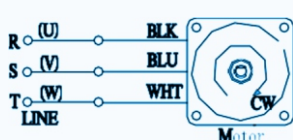
- Enter the gear ratio in the box (□) within the model name. Colored background indicates the output. Shaft rotate in the same direction as the motor shaft.
- The speed is calculated based on the synchronous speed (50Hz : 1500rpm, 60Hz : 1800rpm) by the gear ratio.
- Higher gear ratio (>200) can be achieved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

• Connection Diagrams

• Lead Wire Single Phase

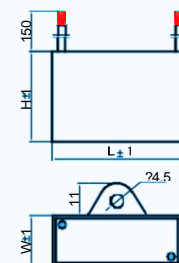


• Lead Wire Three Phase



• Capacitor

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



TECHNICAL SPECIFICATIONS

Induction Motors 180W(GJ)

Frame Size 104mm (4.1 inch)

EIKO AUTOMATION



General specifications for Eiko Motors

Item	Specifications
Insulation Resistance	100 MΩ or more when 500 VDC is applied between the windings and the frame
Dielectric Strength	Sufficient to withstand 1.5 kV at 50/60 Hz applied between the windings and the frame for 1 min
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°~+40°) [three phase: 14°F-122°F (-10°~+50°)] (Non freezing)
Ambient Humidity	85% or less (Non Condensing)
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 and permissible load inertia at the motor shaft

Frame Size	Shaft Diameter mm	Permissible Hung Load (from end of shaft)				Permissible Hung Inertia at the Motor Shaft	
		10mm		20mm		J (x10 kg.m ²)	GD (kg.m ²)
		lb	N	lb	N		
□61K	12	71.9	320	78.7	350	2	8

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

Permissible load for Eiko Gearheads

Frame Size	Gear Ratio	Maximum Permissible Torque		Permissible Overhung Load (from end of shaft)				Permissible Thrust Load	
				10mm		20mm		lb	N
		lb-in	N.m	lb	N	lb	N		
□6GU	3 - 200	354	40	247.2	1100	337.1	1500	67	300

Heat Radiation Plate Dimension (Material: Aluminium) : 341 x 230 (for 61K motor)

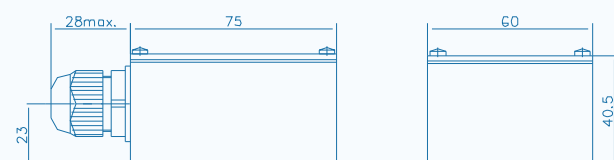
Product Number Codes for Motors:

6	I	K	180	R	GU	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 180 = 180W	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 100~120V AC, 4P B: Single Phase 100~120V AC, 2P C: Single Phase 220~240V AC, 4P D: Single Phase 220~240V AC, 2P S: Three Phase 220~240V AC, 4P T: Three Phase 220~240V AC, 2P S3: Three Phase 380~415V AC, 4P T3: Three Phase 380~415V AC, 2P	Accessory F: W/Fan FF: W/forced Fan M: W/Brake T: W/Terminal Box

Product Number Codes for Gearheads:

6	GU	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:



RELIABLE BEARINGS AND AUTOMATION

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Website: www.reliablebearings.in

TECHNICAL SPECIFICATIONS