

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.m²)	GD (kg.m²)
		lb	N	lb	N		
5IK60	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 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-in	N.m	lb	N	lb	N	lb	N
5GU	3 - 9	177	20	89.9	400	112.4	500	34	150
	125 - 18			101.1	450	134.8	600		
	25 - 200			112.4	300	157.3	700		

Heat Radiation Plate Dimension (Material: Aluminium) : 311 x 200 (for 51K GU motor)

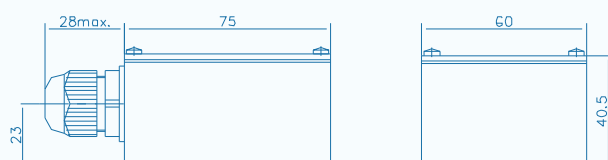
Product Number Codes for Motors:

5	I	K	90	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 90 = 90W	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:

5	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

Head Office: 2/6, Chimna Butcher Street, 2nd Floor, Mumbai 400003
Branch Office: Raut Complex, Opp.BRTS Terminal, Bhosari, Pune 411039
Email: sales@reliablebearings.in
Contact: +91 9152530051 / +91 8082432436
Website: www.reliablebearings.in