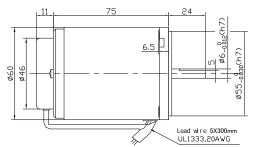
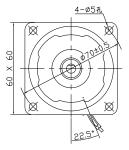
Motor Dimensions:

Speed Control Motors 6W

Frame Size: □60mm (□2.36 in.)







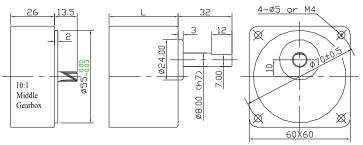
• Induction motor specifications-continuous Rating (leads wire type)

(€	A
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Ma	del	Output	Voltage	Freq.	Speed	Allowable	Torque Starting		Current	Capacitor	
IVIO	uei	Power	voltage	rieq.	Range	1200rpm	90rpm	Torque	Current	Сарасноі	
Pinion Shaft	Round Shaft	W	Vac	Hz	r/min	mN.m	mN.m	mN.m	Amp	μF/V	
2IK6RGN-A	2IK6RA-A	6	1nh110	50	90~1400	50	30	35	0.26	3 5/350	
ZIKORGIN-A	ZINOKA-A	0	1ph110	60	90~1700	50	29	35	0.28	3.5/250	
2IK6RGN-C	2IK6RA-C	6	1ph220	50	90~1400	55	29	35	0.15	0.8/450	

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	L	Weight			
iteiii	Nalio	mm	Kg	lb		
	3 - 18	32	0.24	0.53		
Gearhead (2GNxxK)	20 - 50	42	0.3	0.66		
(2010011)	60 - 200	42	0.33	0.73		
10:1 middle	gearbox	26	0.2	0.44		
Moto	or	75	0.7	1.54		

Gear Motor-Torque Table

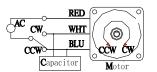
Ocai IV	10101 1	<u>0, 90</u>	o iui	010																				
	Gear R	atio	X:1	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
Model	Efficiency		%					81						73						66				
Model	Speed	50Hz	RPM	500	417	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	RPM	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	9
		50LI=	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
2IK6RGN-A	2GN⊐K	50Hz	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
2IK6RGN-C	ZGNUK	6011-	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
			60Hz	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

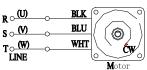
- Enter the gear ratio in the box \square . Colored background indicates the output shaft rotate in the same direction as the motor shaft. The speed is calculated based on the synchronous speed (50 Hz: 1500rpm; 60Hz: 1800 rpm) by the gear ratio. Higher gear ratio (>200) can be achieved by adding a middle gearbox (10:1 only). Using Middle Gearbox limits Max.torque to3Nm (30kg.cm)

Connection Diagrams:

• Lead Wire Single Phase

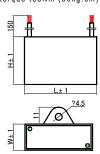
• Lead Wire Three Phase





Capacitor:

Value)	Dimensions				
uF	٧	L	Н	W		
2.0 - 2.5	250	37	14	28		
0.5 - 1.5	450	31	14	20		
3.5 - 4.0	250	37	18	28		
1.8 - 2.5	450	31	10	20		



6W Frame Size: **□60mm** (**□2.36** in.)

General specifications for AC motors:

Item	Specifications
Insulation Resistance	100 M Ω 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°Cwith 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

	Shaft	Permissi	ble overhung l	oad (from end	of shaft)	Permissible Load Ine	rtia at the Motor Shaft	
Frame Size	Dia.	10	mm	20	mm	1 (x10 kg m²)	GD (kg. m²)	
	mm	lb	N	lb	N	J (×10 kg. m²)		
□60	6	11.2	50	18	80	0.062	0.25	

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

• Permissible load for gearheads

Frame	Gear	Maxi	mum	Permissib	le overhung l	Permissible trust load				
Size	Ratio	Permissible torque		10	mm	20	mm	r emilissible trust load		
3126	Natio	lb-in	lb-in N.m		N	lb	N	lb	N	
□60mm	3 - 18	06	2	11.2	50	18	80	6.7	20	
(□2.3")	25 - 200	26	3	27	120	40	180	6.7	30	

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

Product Number Codes for Motors:

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

Product Number Codes for Gearheads:

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

Terminal Boxes:

6: 100mm

