PRODUCT NUMBER CODE

Motor

5	I	K	40	R	GN	-	C	T
①	②	③	④	⑤	⑥		⑦	⑧

①	Motor frame size	0: 42mm 2: 60mm 3: 70mm 4: 80mm 5: 90mm 6: 104mm
②	Motor type I : Induction motor R : Reversible motor T : Torque motor	
③	Series	K : K series
④	Output power (W)	(Example) 40 : 40W
⑤	R : The auffix "-R" after the output power means speed adjustable motor.	
⑥	Motor shaft type GN : GN type pinion shaft GU : GU type pinion shat A : Round shaft A1 : Keyway	
⑦	Voltage·Poles A : Single-phase 110V50/60Hz 4P E : Single-phase 110V/120V60Hz 4P S3 : Three-phase 380/400/415V50/60Hz 4P B : Single-phase 110V50Hz 2P H : Single-phase 220/230V60Hz 4P T : Three-phase 200/220/230V50/60Hz 2P C : Single-phase 220/230V50Hz S : Three-phase 200/220/230V50/60Hz 4P T3 : Three-phase 380/400/415V50/60Hz 2P 4P D : Single-phase 220V50Hz 2P	
⑧	T : Terminal box type F : W/Fan FF : W/Forced fan M : Power off activated type electromagnetic brake motor	

Description Of Reducer Model

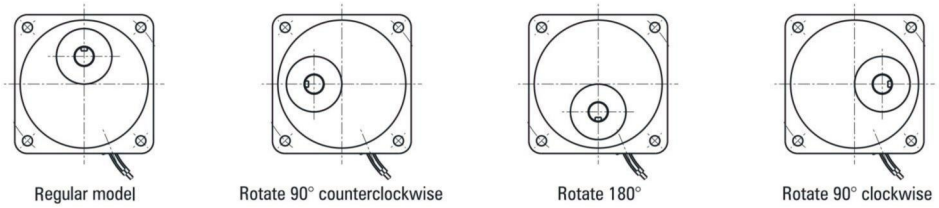
5	GN	50	K
①	②	③	④

①	Gearhead frame size	0: 42mm 2: 60mm 3: 70mm 4: 80mm 5: 90mm 6: 104mm
②	Type of pinion	GN : GN type gear GU : GU type gear
③	Gear ratio	(e.g) 50 : Gear ratio of 1 : 50 10x denotes the decimal gearhead of ratio 1 : 10
④	Bearing type	K : Bearing (Make KB for type GU square case)

Note: If the motor assembly with parallel gear box pls cancel item no 5, if assembly with right angle gear box pls cancel item no 4.

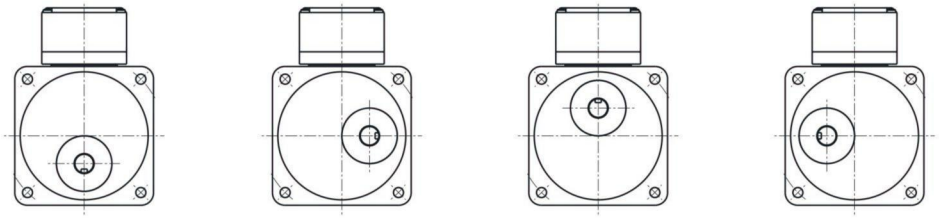
Parallel Shaft Series

● Lead Style



Regular model | Rotate 90° counterclockwise | Rotate 180° | Rotate 90° clockwise

● Junction Box



Regular model | Rotate 90° counterclockwise | Rotate 180° | Rotate 90° clockwise

Gear Motor-Torque Table

- Gearhead and mid-gearbox can be sold separately. Enter the code that represents the terminal box type (T) in the box (□) within the model name.
- Enter the gear ratio in the box (□) within the model name.

- The colored background ▭ indicates the same rotating direction of the motor while the rotating direction of others are opposite.
- The speed is calculated by dividing the motor's synchronous speed (50Hz：1500r/min、60Hz：1800r/min) by the gear ratio. The actual speed is 2%~20% less than the displayed value, depending on the size of the load.
- To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead (gear ratio:10) between the gearhead and motor. In that case, the permissible torque is 20N·m.

Allowance Torque Unit：Upside（N.m）/ Belowside（kgf.cm）

Type Motor/Gearhead	Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	Speed r/min	50Hz	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
6IK120GU-AF□	6GU□K	50Hz	2.30	2.70	3.80	4.50	5.60	6.80	6.68	8.50	10.2	12.2	12.0	15.3	18.4	22.1	24.0	30.7	36.8	40.0	40.0	40.0	40.0	40.0	40.0	40.0
6IK120GU-CF□			23.4	27.5	38.7	45.9	57.1	69.3	68.2	86.7	104	124	123	156	187	225	245	313	375	400	400	400	400	400	400	400
6IK120GU-SF□			2.22	2.60	3.60	4.30	5.40	6.50	6.42	8.10	9.70	11.7	11.6	14.7	17.6	21.1	23.2	29.4	35.2	40.0	40.0	40.0	40.0	40.0	40.0	40.0
			2.40	26.5	36.7	43.8	55.0	66.3	65.6	87.6	98.8	119	118	149	179	215	236	300	359	400	400	400	400	400	400	400

Allowance Torque Unit：Upside（N.m）/ Belowside（kgf.cm）

Type Motor/Gearhead	Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	Speed r/min	60Hz	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
6IK120GU-AF□	6GU□K	60Hz	1.80	2.20	3.00	3.60	4.60	5.50	5.40	6.80	8.20	9.80	9.70	12.4	14.9	17.8	19.4	24.8	29.7	37.1	40.0	40.0	40.0	40.0	40.0	40.0
6IK120GU-EF□			18.3	22.4	30.6	36.7	46.9	56.1	55.0	69.3	83.6	100	99.0	126	152	181	198	253	303	378	400	400	400	400	400	400
6IK120GU-HF□			1.80	2.20	3.00	3.60	4.40	5.30	5.20	6.70	8.00	9.60	9.40	12.0	14.5	17.3	18.8	24.1	28.9	36.1	40.0	40.0	40.0	40.0	40.0	40.0
6IK120GU-SF□			18.3	22.4	30.6	36.7	44.8	54.0	53.3	68.3	81.6	97.9	95.9	122	148	176	192	245	295	368	400	400	400	400	400	400

To Allow The Hoisting Of The Load Allow Axial Load

Motor (Round shaft) →P215
Gearhead→P215

J Permissible Load Inertia J For Gearhead

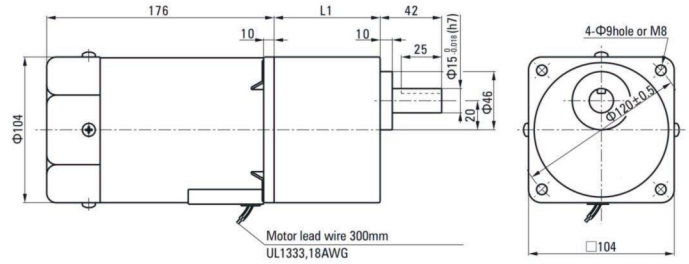
→P215

Dimensions (Unit mm)

Mounting screws are included with gearhead.

● Lead wiring Type ①

Weight : Motor : 4.8kg Gearhead : 2.1kg

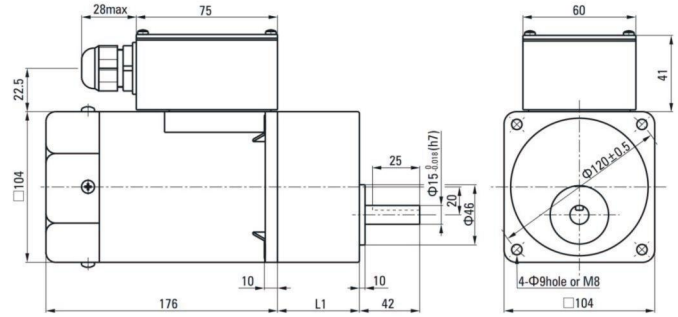


Motor Model	Gearhead Model	Gear Ratio	L1
6IK120GU-AF 6IK120GU-EF 6IK120GU-CF 6IK120GU-HF 6IK120GU-SF 6IK120GU-S3F	6GU□K	3~200	72

●Enter the gear ratio in the box (□) within the model name

● Terminal Box Type ②

Weight : Motor : 4.95kg Gearhead : 2.1kg



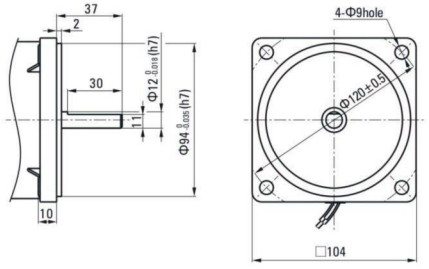
Motor Model	Gearhead Model	Gear Ratio	L1
6IK120GU-AFT 6IK120GU-EFT 6IK120GU-CFT 6IK120GU-HFT 6IK120GU-SFT 6IK120GU-S3FT	6GU□K	3~200	72

●Enter the gear ratio in the box (□) within the model name

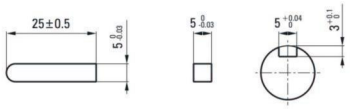
●Use cable with a diameter of Φ6~Φ12mm

● Shaft Section Of Round Shaft Type

Excluding weight and the shaft section motor shape are the same as those of the pinion shaft type.



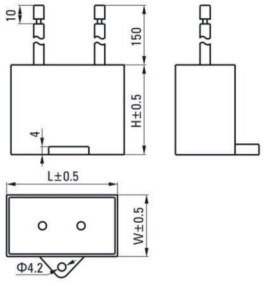
● Key・Keyway (Accessory Of Gearhead)



Formal Dimension Of Capacitor

Model		Capacitor Model	L	W	H
Pinion Shaft	Round Shaft				
6IK120GU-AF	6IK120A-AF	ZD300CFAUL	58	26.0	38
6IK120GU-EF	6IK120A-EF	ZD200CFAUL	47	23.0	35
6IK120GU-CF	6IK120A-CF	ZD80BFAUL	48	26.5	38

● Note: Conventional capacitor is a lead wire type. Inserted 187# is optional
● Enter the code that represents the terminal box type (T) in the box (□) within the model name



Gear Motor-Torque Table

- Gearhead and mid-gearbox can be sold separately. Enter the code that represents the terminal box type (T) in the box (□) within the model name.
- Enter the gear ratio in the box (□) within the model name.

- The colored background ▭ indicates the same rotating direction of the motor while the rotating direction of others are opposite.
- The speed is calculated by dividing the motor's synchronous speed (50Hz：1500r/min、60Hz：1800r/min) by the gear ratio. The actual speed is 2%~20% less than the displayed value, depending on the size of the load.
- To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead (gear ratio:10) between the gearhead and motor. In that case, the permissible torque is 20N·m.

Allowance Torque Unit：Upside（N.m）/ Belowside（kgf.cm）

Type Motor/Gearhead	Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	Speed r/min	50Hz	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
6IK140GU-AF□ 6IK140GU-CF□	6GU□K	50Hz	2.60	3.10	4.40	5.20	6.60	7.90	7.80	9.90	11.8	14.2	14.0	17.8	21.4	25.7	28.0	35.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
			26.5	31.6	44.8	53.0	67.3	80.6	79.6	101	120	144	143	181	218	262	286	363	400	400	400	400	400	400	400	400
6IK140GU-SF□			2.50	3.00	4.20	5.10	6.30	7.60	7.20	9.50	11.4	13.7	13.0	17.2	20.6	24.7	26.0	34.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
			25.5	30.6	42.8	52.0	63.2	77.5	73.6	96.9	116	139	133	175	210	252	265	349	400	400	400	400	400	400	400	400

Allowance Torque Unit：Upside（N.m）/ Belowside　　（kgf.cm）

Type Motor/Gearhead	Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	Speed r/min	60Hz	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
6IK140GU-AF□ 6IK140GU-SF□ 6IK140GU-EF□	6GU□K	60Hz	2.10	2.50	3.50	4.20	5.30	6.30	6.30	7.90	9.50	11.4	11.3	14.4	17.2	20.7	22.6	28.7	34.5	40.0	40.0	40.0	40.0	40.0	40.0	40.0
			21.4	25.5	35.7	42.8	54.0	64.2	64.2	80.6	96.9	116	115	147	175	211	231	292	352	400	400	400	400	400	400	400
			2.10	2.50	3.40	4.10	5.20	6.20	6.10	7.80	9.30	11.2	11.0	12.0	16.8	20.2	22.0	28.0	33.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0
6IK140GU-HF□			21.4	25.5	34.6	41.8	53.0	63.2	62.2	79.5	94.8	114	112	122	171	206	224	285	343	400	400	400	400	400	400	400

To Allow The Hoisting Of The Load Allow Axial Load

Motor (Round shaft) →P215
Gearhead→P215

J Permissible Load Inertia J For Gearhead

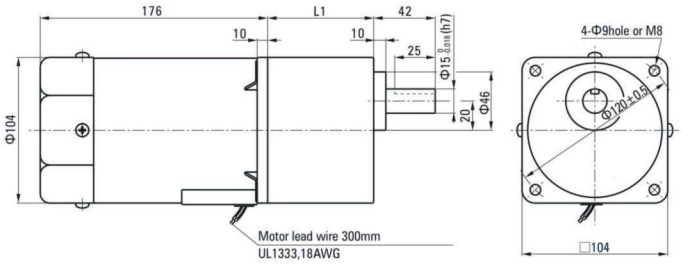
→P215

Dimensions (Unit mm)

Mounting screws are included with gearhead.

Lead Wiring Type ①

Weight : Motor : 5.0kg Gearhead : 2.1kg

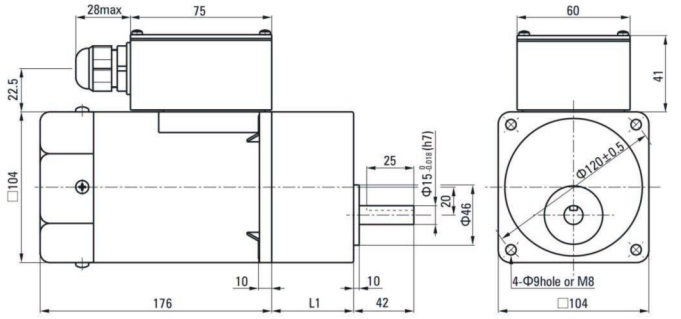


Motor Model	Gearhead Model	Gear Ratio	L1
6IK140GU-AF 6IK140GU-EF 6IK140GU-CF 6IK140GU-HF 6IK140GU-SF 6IK140GU-S3F	6GU□K	3~200	72

●Enter the gear ratio in the box (□) within the model name

Terminal Box Type ②

Weight : Motor : 5.15kg Gearhead : 2.1kg



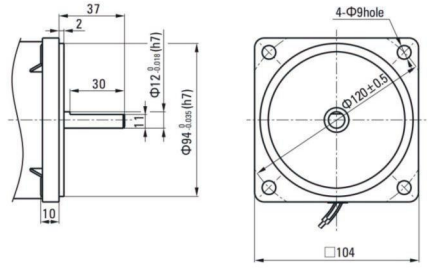
Motor Model	Gearhead Model	Gear Ratio	L1
6IK140GU-AFT 6IK140GU-EFT 6IK140GU-CFT 6IK140GU-HFT 6IK140GU-SFT 6IK140GU-S3FT	6GU□K	3~200	72

●Enter the gear ratio in the box (□) within the model name

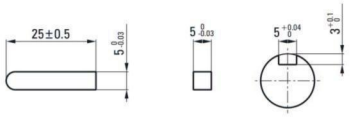
●Use cable with a diameter of Φ6~Φ12mm

Shaft Section Of Round Shaft Type

Excluding weight and the shaft section motor shape are the same as those of the pinion shaft type.



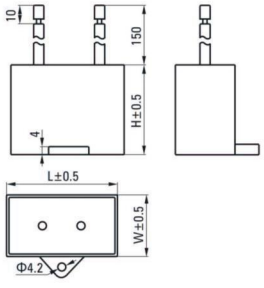
Key・Keyway (Accessory Of Gearhead)



Formal Dimension Of Capacitor

Model		Capacitor Model	L	W	H
Pinion Shaft	Round Shaft				
6IK140GU-AF	6IK140A-AF	ZD350CFAUL	58	30	40
6IK140GU-EF	6IK140A-EF	ZD250CFAUL	47	27	37
6IK140GU-CF	6IK140A-CF	ZD100BFAUL	58	26	38

● Note: Conventional capacitor is a lead wire type. Inserted 187# is optional
● Enter the code that represents the terminal box type (T) in the box (□) within the model name



Gear Motor-Torque Table

- Gearhead and mid-gearbox can be sold separately. Enter the code that represents the terminal box type (T) in the box (□) within the model name.
- Enter the gear ratio in the box (□) within the model name.

- The colored background ▭ indicates the same rotating direction of the motor while the rotating direction of others are opposite.
- The speed is calculated by dividing the motor's synchronous speed (50Hz：1500r/min、60Hz：1800r/min) by the gear ratio. The actual speed is 2%～20% less than the displayed value, depending on the size of the load.

- To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead (gear ratio:10) between the gearhead and motor. In that case, the permissible torque is 20N·m.

Allowance Torque Unit：Upside（N.m）/Belowside（kgf.cm）

Type Motor/Gearhead	Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	Speed r/min	50Hz	500	417	300	250	200	166	150	120	100	83	75	60	50	42	37	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
6IK200GU-AF□	6GU□K	50Hz	3.71	4.46	6.19	7.43	9.28	11.1	11.9	13.9	16.7	20.1	20.8	25.2	30.3	36.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
6IK200GU-EF□			37.9	45.5	63.1	75.8	94.7	114	121	142	171	205	212	257	309	370	400	400	400	400	400	400	400	400	400	400
6IK200GU-CF□		60Hz	2.99	3.59	4.99	5.99	7.49	8.98	9.70	11.2	13.5	16.2	17.2	20.3	24.4	29.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
6IK200GU-HF□			30.6	36.7	50.9	61.1	76.4	91.7	98.9	115	138	165	175	207	249	299	400	400	400	400	400	400	400	400	400	400
6IK200GU-SF□																										

To Allow The Hoisting Of The Load Allow Axial Load

Motor (Round shaft) →P215
Gearhead→P215

J Permissible Load Inertia J For Gearhead

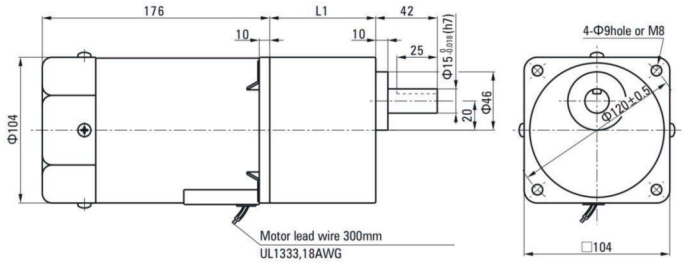
→P215

Dimensions (Unit mm)

Mounting screws are included with gearhead.

● Lead Wiring Type ①

Weight：Motor： 5.0kg　　Gearhead： 2.1kg

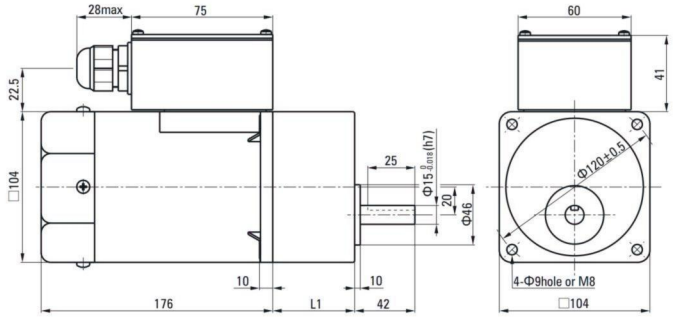


Motor Model	Gearhead Model	Gear Ratio	L1
6IK200GU-AF 6IK200GU-EF 6IK200GU-CF 6IK200GU-HF 6IK200GU-SF 6IK200GU-S3F	6GU□K	3～200	72

●Enter the gear ratio in the box (□) within the model name

● Terminal Box Type ②

Weight : Motor : 5.15kg Gearhead : 2.1kg



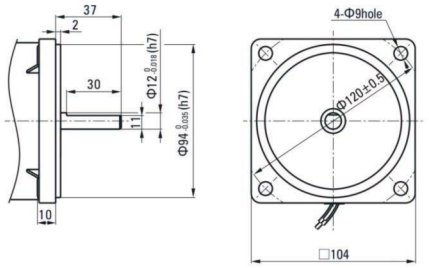
Motor Model	Gearhead Model	Gear Ratio	L1
6IK200GU-AFT 6IK200GU-EFT 6IK200GU-CFT 6IK200GU-HFT 6IK200GU-SFT 6IK200GU-S3FT	6GU□K	3~200	72

●Enter the gear ratio in the box (□) within the model name

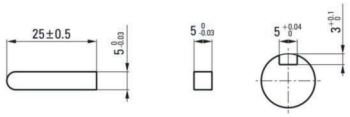
●Use cable with a diameter of Φ6~Φ12mm

● Shaft Section Of Round Shaft Type

Excluding weight and the shaft section motor shape are the same as those of the pinion shaft type.



● Key · Keyway (Accessory Of Gearhead)



Formal Dimension Of Capacitor

Model		Capacitor Model	L	W	H
Pinion Shaft	Round Shaft				
6IK200GU-AF	6IK200A-AF	ZD450CFAUL	70	38	52
6IK200GU-EF	6IK200A-EF	ZD350CFAUL	58	30	40
6IK200GU-CF	6IK200A-CF	ZD100BFAUL	58	26	38

● Note: Conventional capacitor is a lead wire type. Inserted 187# is optional
● Enter the code that represents the terminal box type (T) in the box (□) within the model name

