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

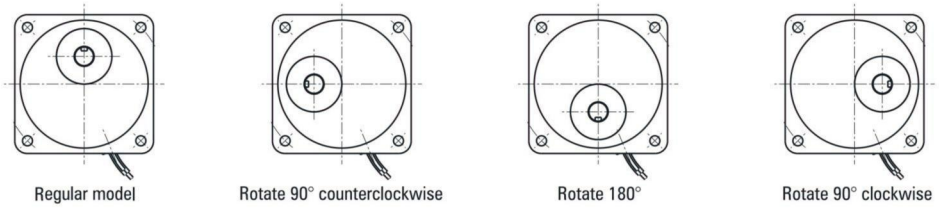
5	GN	50	K
①	②	③	④

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.

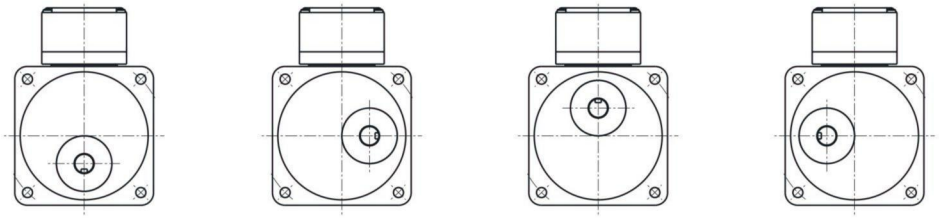
Parallel Shaft Series

● 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
		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
5IK90GU-AF□	5GU□KB	50Hz	1.10	2.00	2.80	3.40	4.30	5.10	5.31	6.40	7.70	9.20	9.55	11.6	13.6	16.6	18.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK90GU-EF□			17.3	20.4	28.6	34.7	43.9	52.0	54.2	65.3	78.6	93.3	97.4	118	142	169	184	200	200	200	200	200	200	200	200	200
5IK90GU-CF□	5GU□K	60Hz	1.40	1.70	2.30	2.80	3.50	4.20	4.43	5.20	6.20	7.50	7.81	9.40	11.3	13.5	14.5	18.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK90GU-HF□			14.3	17.3	23.5	28.6	35.7	42.9	45.2	53.1	63.3	76.5	79.6	95.9	115	138	148	192	200	200	200	200	200	200	200	200
5IK90GU-SF□																										

To Allow The Hoisting Of The Load Allow Axial Load

Motor (Round shaft) →P215
Gearhead→P215

J Permissible Load Inertia J For Gearhead

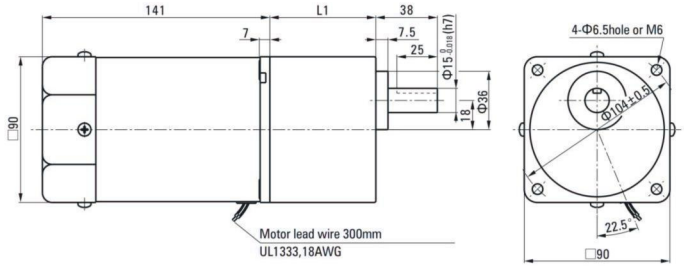
→P215

Dimensions (Unit mm)

Mounting screws are included with gearhead.

● Lead Wiring Type ①

Weight：Motor： 3.2kg　　Gearhead： 1.5kg

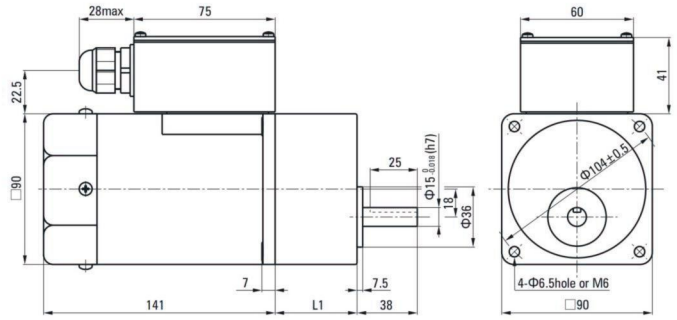


Motor Model	Gearhead Model	Gear Ratio	L1
5IK90GU-AF 5IK90GU-EF 5IK90GU-CF 5IK90GU-HF 5IK90GU-SF 5IK90GU-S3F	5GU□KB	3～200	65.5

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

● Terminal Box Type ②

Weight：Motor： 3.35kg　　Gearhead： 1.5kg



Motor Model	Gearhead Model	Gear Ratio	L1
5IK90GU-AFT 5IK90GU-EFT 5IK90GU-CFT 5IK90GU-HFT 5IK90GU-SFT 5IK90GU-S3FT	5GU□KB	3～200	65.5

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

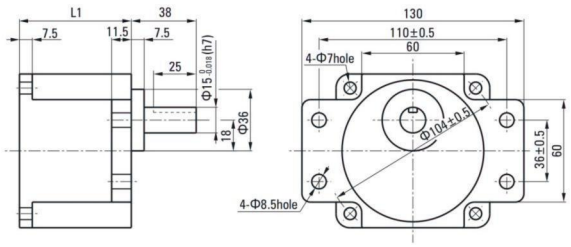
●Use cable with a diameter of Φ6～Φ12mm

● Flange Mounting Reducer

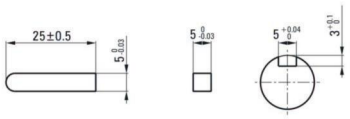
Can be mounted on GU type gear shaft

5GU□K

Weight:1.5kg

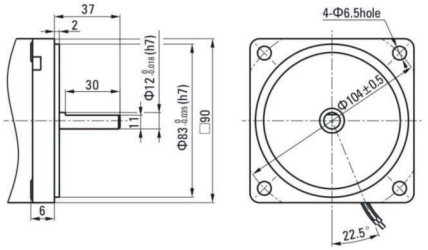


● Key・Keyway (Accessory Of Gearhead)



● Shaft Section Of Round Shaft Type

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

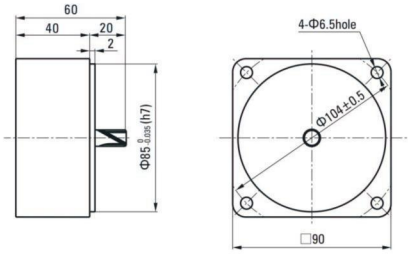


● Decimal Gearhead

Can be connected to GU pinion shaft type

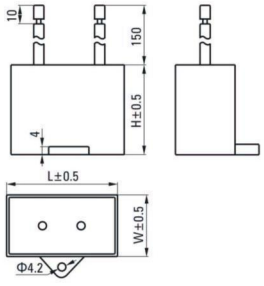
5GU10XK

Weight：0.65kg



Formal Dimension Of Capacitor

Model		Capacitor Model	L	W	H
Pinion Shaft	Round Shaft				
5IK90GU-AF□	5IK90A-AF□	ZD250CFAUL	47	27	37
5IK90GU-EF□	5IK90A-EF□	ZD200CFAUL	47	23	35
5IK90GU-CF□	5IK90A-CF□	ZD50BFAUL	47	20	31



● 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.
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- 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
		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
5IK120GU-AF□	5GU□KB 5GU□K	50Hz	2.30	2.70	3.80	4.50	5.60	6.80	7.01	8.50	10.2	12.2	12.5	15.3	18.4	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK120GU-EF□			23.4	27.5	38.7	45.9	57.1	69.3	71.5	86.7	104	124	128	156	187	200	200	200	200	200	200	200	200	200	200	200
5IK120GU-CF□		60Hz	1.80	2.20	3.00	3.60	4.60	5.50	5.73	6.80	8.20	9.80	10.1	12.4	14.9	17.8	19.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK120GU-HF□			18.3	22.4	30.6	36.7	46.9	56.1	58.5	69.5	83.6	100	103	126	152	181	199	200	200	200	200	200	200	200	200	200
5IK120GU-SF□																										

To Allow The Hoisting Of The Load Allow Axial Load

Motor (Round shaft) →P215
Gearhead→P215

J Permissible Load Inertia J For Gearhead

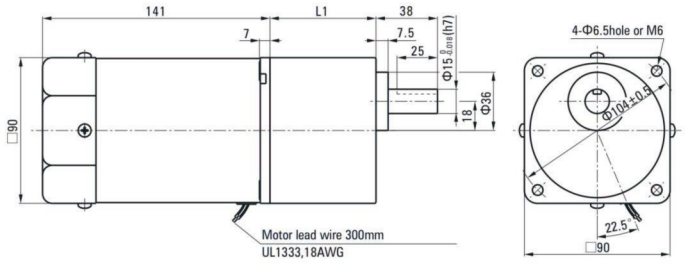
→P215

Dimensions (Unit mm)

Mounting screws are included with gearhead.

● Lead Wiring Type ①

Weight：Motor： 3.4kg　　Gearhead： 1.5kg

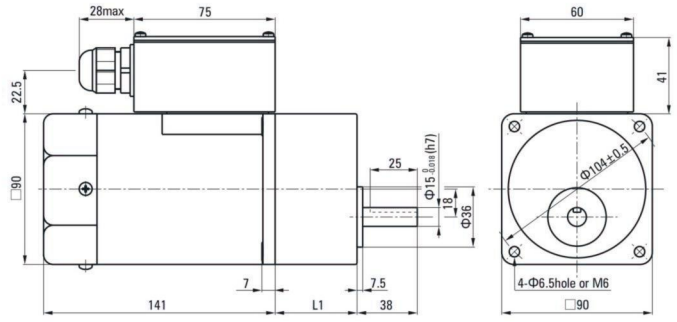


Motor Model	Gearhead Model	Gear Ratio	L1
5IK120GU-AF 5IK120GU-EF 5IK120GU-CF 5IK120GU-HF 5IK120GU-SF 5IK120GU-S3F	5GU□KB	3～200	65.5

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

● Terminal Box Type ②

Weight： Motor： 3.55kg　　Gearhead： 1.5kg



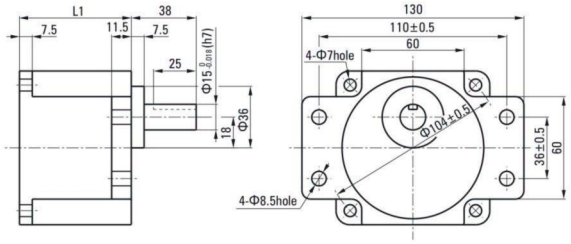
Motor Model	Gearhead Model	Gear Ratio	L1
5IK120GU-AFT 5IK120GU-EFT 5IK120GU-CFT 5IK120GU-HFT 5IK120GU-SFT 5IK120GU-S3FT	5GU□KB	3～200	65.5

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

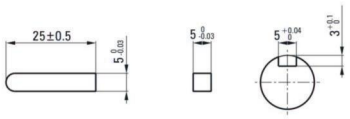
●Use cable with a diameter of Φ6～Φ12mm

● Flange Mounting Reducer

Can be mounted on GU type gear shaft
5GU□K
Weight:1.5kg

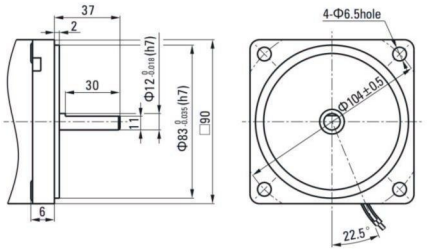


● Key・Keyway (Accessory Of Gearhead)



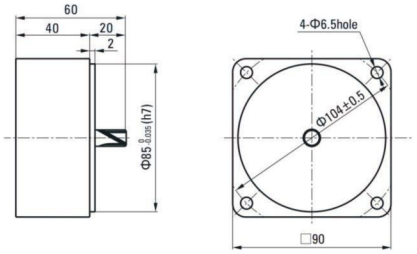
● Shaft Section Of Round Shaft Type

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



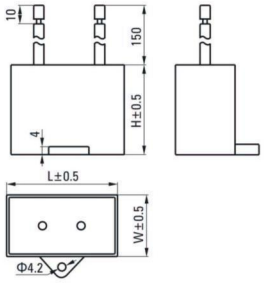
● Decimal Gearhead

Can be connected to GU pinion shaft type
5GU10XK
Weight：0.65kg



Formal Dimension Of Capacitor

Model		Capacitor Model	L	W	H
Pinion Shaft	Round Shaft				
5IK120GU-AF□	5IK120A-AF□	ZD300CFAUL	58	26	38
5IK120GU-EF□	5IK120A-EF□	ZD250CFAUL	47	27	37
5IK120GU-CF□	5IK120A-CF□	ZD70BFAUL	47	24	37



● 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