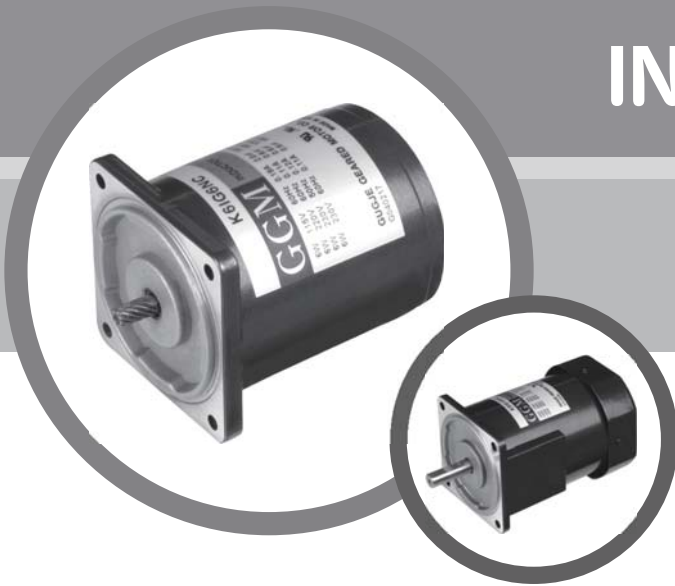


# INDUCTION MOTORS



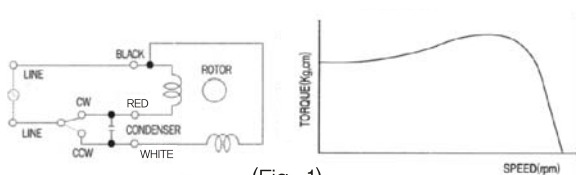
# [Characteristic of Induction Motor]

## 1. Characteristic of Induction Motor

- The induction motor is classified into a single-phase motor and a three-phase motor according to the using power source. This motor always uses both auxiliary winding and condenser not only when starting but also during operation. Generally speaking, its starting torque is not so great, but its structure is simple and reliable. In addition, its connection is simple. It is suitable to use in houses and on factories. For a single-phase induction motor, be sure that the condenser indicated in the name plate should comply with the capacity of the motor.
- For a single-phase induction motor, it is not possible to reverse the direction of rotation within a short time during operation because of the inertia torque exerting adversely against the direction the motor is supposed to change to. Thus, stop the motor first and change the rotational direction next. In case you do not, the motor can be damaged.
- The power source of a single-phase motor includes U (100V 60/60Hz), C (200V 50/60Hz, 220V 50/60Hz, 230V 50Hz). Refer to (Fig. 1).

CIRCUIT DIAGRAM

SPEED-TORQUE CURVE

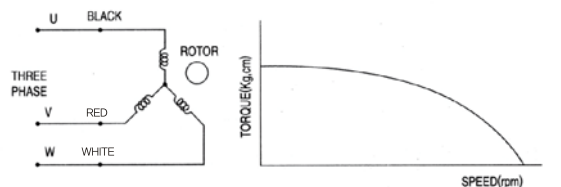


(Fig. 1)

- The three-phase induction motor has simpler connection, and higher efficiency and reliability than the single-phase motor, because it can be driven by a three-phase power source directly. The three-phase motor is popular as a general-purpose motor. The power source for a three-phase motor includes H (220V 60Hz, 230V 50/60Hz), M (380V 50/60Hz), Z (440V/460V 50/60Hz). Refer to (Fig. 2)

CIRCUIT DIAGRAM(C.W)

SPEED-TORQUE CURVE



(Fig. 2)

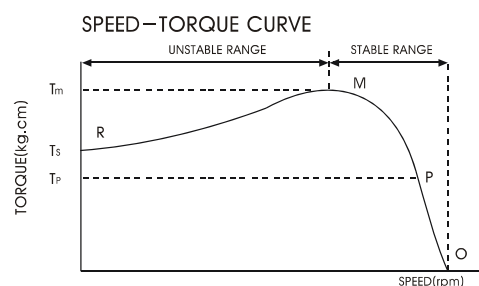
- It is possible to use the motor for continuous rated operation.
- It is designed to be used in a single direction.
- The number of rated revolution of the motor varies depending on the load imposed on it.
- It is suitable for such operation that does not need the speed control.
- Its insulation class is E. Our UL conformance motor is class A.

## 2. Characteristic of Rotation and Torque

- Under a constant voltage, the relationship between the number of rotation and the torque is as shown in (Fig. 3).

With no-load, the number of rotation roughly approximates the number of synchronous rotation, but as the load increases, the number of rotation decreases and reaches the torque  $T_L$ . The stable zone is to this point.

- When the load is further increased and over the point  $T_M$ , that is, the torque of the motor reaches the unstable zone, the motor stops and restriction electricity runs. As a result, the motor generates high heat, and then it can be damaged. Therefore, a safe operation is possible if only the motor is used within the stable zone of the load.



(Fig. 3)

## 3. Characteristic of Voltage and Condenser

- The characteristic of voltage can be represented by the torque's characteristic about the applied voltage. The torque of induction motor changes in proportion to two times the voltage.
- The characteristic of torque also change according to the capacity of the condenser.
- As the capacity of the condenser boost, the starting torque and stalling torque increase. But if the capacity is increased by 2.5~3.0 folds, the operating torque decreases and the starting torque do not increase.
- As a simple method to increase the torque when the induction motor is short on torque, either the voltage or the condenser capacity can be increased to continue the operation. In this case, the loss input of the motor increases and the temperature rises rapidly.
- However, if the motor must be run with insufficient torque, take measures to let the motor release heat as much as possible and operate the motor while keeping the temperature of the motor's housing below 90°C. Refer to (Fig. 4).

### General Specification of Induction Motors

Item	Specification
Insulation Resistance	100Ω or more when 500V megger is applied between the windings and the housing after rated motor operation under normal ambient temperature and humidity
Dielectric Strength	Sufficient to withstand 1500V at 50/60Hz applied between the windings and the case after rated motor operation under normal ambient temperature and humidity
Temperature Rise	class A (65°C) or class E (75°C) or less increase measured by thermometer after rated operation
Insulation Class	Class E (120°C), UL approval motor class A (105°C)
Overheat Protection Device	Built-in thermal protector (automatic return type) : Open 130°C±5°C Close 82°C±15°C
Ambient Temperature	-10°C~50°C
Ambient Humidity	85% maximum (non condensing)

# [Characteristic of Terminal Box Type Motor]

## 1. Characteristic of Terminal Box Type Motor

- The motor's charging section including lead wire is made airtight by the terminal box to provide the protection from the dust and moisture.
- Therefore, the motor can be used in the harsh environment.
- The classification of the device protection structure for our T type terminal box motor is IP54.
- The motor features a compact design.
- The ground terminal is attached to the motor. However, Type (6~15W) of the single-phase induction motor does not have a built-in ground inside the terminal box.
- Since the motor is so structured as to make the piping work easier, it is excellent in connection work. The cable is firmly fixed to provide the stronger tension when wiring the cable.
- The terminal box cover is made of PC resin which is excellent in insulation and stiffness.
- The T type terminal box uses a product that provides high reliability.
- Please use AWG NO. 24~AWG NO. 10 (0.25 mm<sup>2</sup>~4.0 mm<sup>2</sup>) for the lead wire. At this time, the length of the peeled-off lead wire should be about 8mm.

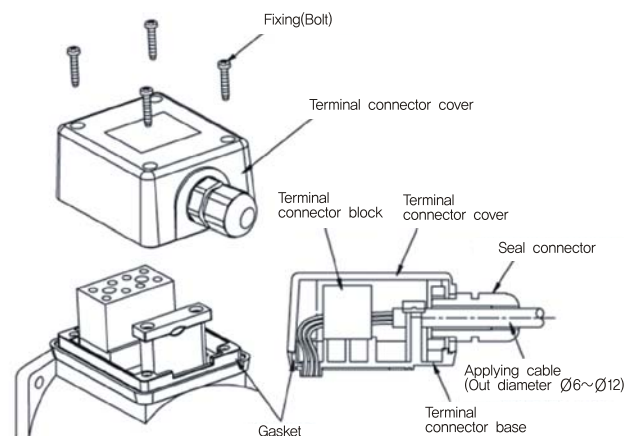
### General Specification of Terminal Box Type Motors

Item	Specification
Insulation Resistance	100Ω or more when 500V megger is applied between the windings and the housing after rated motor operation under normal ambient temperature and humidity
Dielectric Strength	Sufficient to withstand 1500V at 50/60Hz applied between the windings and the case after rated motor operation under normal ambient temperature and humidity for 1 min.
Temperature Rise	class A (65°C) or class E (75°C) or less increase measured by thermometer after rated operation
Insulation Class	Class E (120°C), UL approval motor class A (105°C)
Overheat Protection Device	Built-in thermal protector (automatic return type) : Open 130°C±5°C Close 82°C±15°C
Ambient Temperature	-10°C~50°C
Ambient Humidity	85% maximum (non condensing)

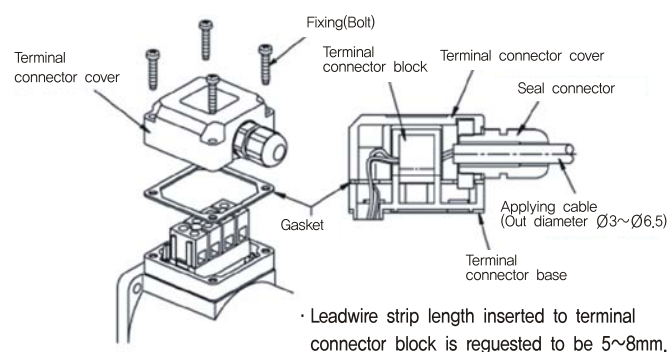
## 2. Diagram of Terminal Box Structure

### (1) Terminal Block Box Type (T Type)

- □80 25W ~ □90 200W



- □60 6W ~ □70 15W



## INDUCTION MOTOR

### 6W

### □ 60mm

### LEAD WIRE TYPE TERMINAL BOX TYPE

K6IS6N□



K6IS6N□-T



### SPECIFICATIONS

6W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N·m/Kgf·Cm)	Rated T. (N·m/Kgf·Cm)	Speed (rpm)	Condenser (μF)
K6I□6NJ(-T)	100	50	0,25	0,04/0,4	0,049/0,49	1200	3
		60	0,23			1500	
K6I□6NU(-T)	110	60	0,18	0,035/0,35	0,04/0,4	1500	2
	115		0,19	0,04/0,4			
K6I□6NL(-T)	200	50	0,11	0,045/0,45	0,049/0,49	1200	0,8
		60				0,04/0,4	
K6I□6NC(-T)	220	50	0,11	0,04/0,4	0,047/0,47	1250	0,6
		60	0,1	0,035/0,35	0,04/0,4	1500	
	230	50	0,12	0,045/0,45	0,047/0,47	1250	
		60	0,11	0,04/0,4	0,04/0,4	1500	
K6I□6ND(-T)	240	50	0,12	0,045/0,45	0,047/0,47	1250	0,5

\* □ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	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	6
	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	250
K6I□6N□(-T) K6G□B(C)	0,11	0,14	0,19	0,23	0,29	0,34	0,38	0,48	0,57	0,69	0,69	0,86	1,03	1,23	1,37	1,54	1,85	2,31	2,78	3	3	3	3	3	3	3
	1,1	1,4	1,9	2,3	2,9	3,4	3,8	4,8	5,7	6,9	6,9	8,6	10,3	12,3	13,7	15,4	18,5	23,1	27,8	30	30	30	30	30	30	30

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9	7,2
	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	250
K6I□6N□(-T) K6G□B(C)	0,10	0,12	0,16	1,19	0,24	0,29	0,32	0,41	0,49	0,58	0,58	0,73	0,87	1,05	1,17	1,31	1,57	1,97	2,36	2,62	3	3	3	3	3	3
	1,0	1,2	1,6	1,9	2,4	2,9	3,2	4,1	4,9	5,8	5,8	7,3	8,7	10,5	11,7	13,1	15,7	19,7	23,6	26,2	30	30	30	30	30	30

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

\*   color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

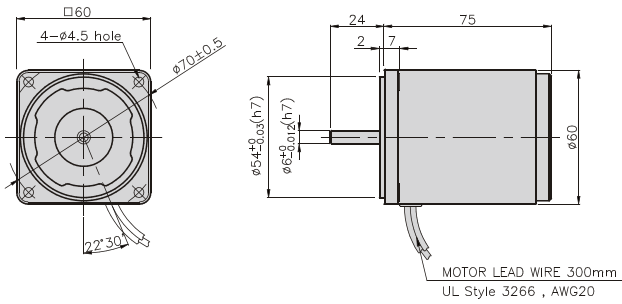
\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 3N · m/30kgfcm.

\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

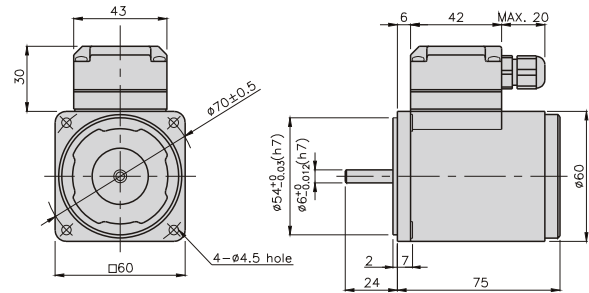
## GEARHEADS

### DIMENSIONS

K6IS6N□

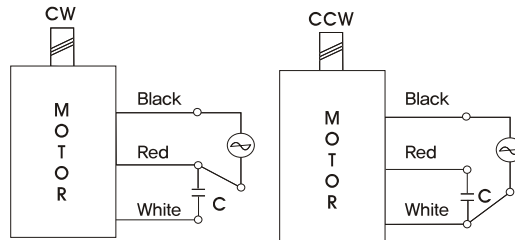


K6IS6N□-T



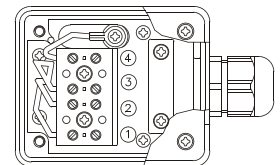
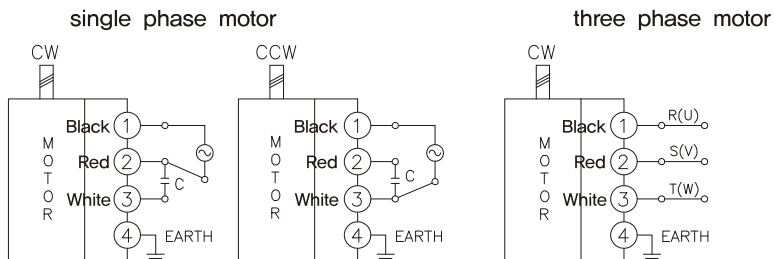
### CONNECTION DIAGRAMS

K6IS6N□



The direction of motor rotation is as viewed from the front shaft end of the motor

K6IS6N□-T



The direction of motor rotation is as viewed from the front shaft end of the motor

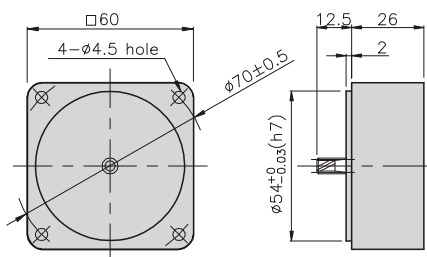
### DIMENSIONS

K6G□B(C)



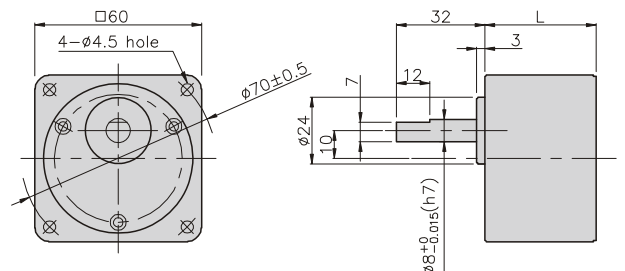
DECIMAL GEARHEAD

K6G10BX□



GEARHEAD

K6G□B(C)



## GEARHEADS

### DIMENSIONS

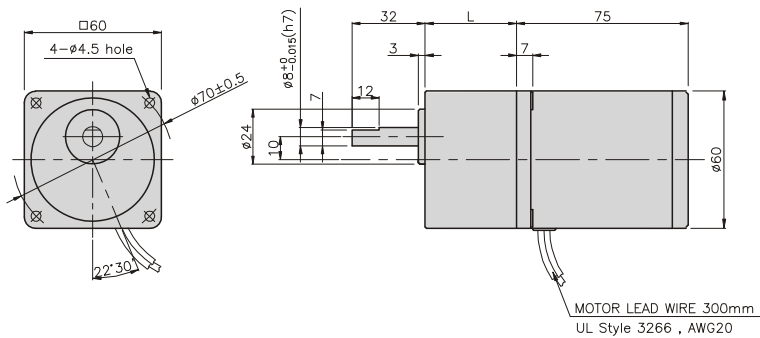
K6IG6N□ + K6G□B(C)



K6IG6N□-T + K6G□B(C)



K6IG6N□ + K6G□B(C)



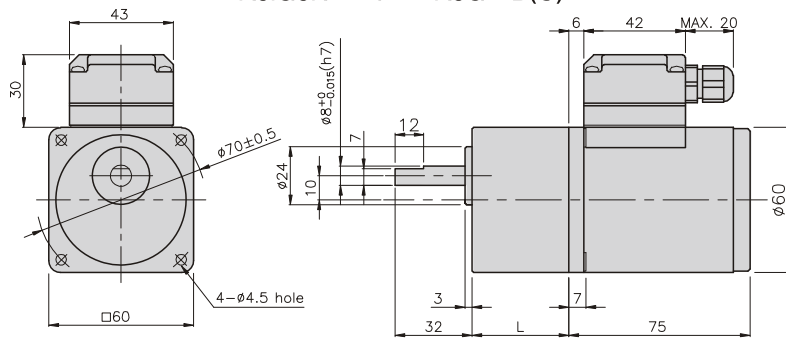
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	30	K6G3~18B(C)	M4 P0,7 X 50
02	40	K6G20~250B(C)	M4 P0,7 X 60
03	26	K6G10BX	M4 P0,7 X 85

WEIGHT

PART	WEIGHT(kg)	
MOTOR	0,72	
DECIMAL GEAR HEAD	0,22	
GEAR HEAD	K6G3~18B(C)	0,26
	K6G20~40B(C)	0,33
	K6G50~250B(C)	0,36

K6IG6N□-T + K6G□B(C)



DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	30	K6G3~18B(C)	M4 P0,7 X 50
02	40	K6G20~250B(C)	M4 P0,7 X 60
03	26	K6G10BX	M4 P0,7 X 85

WEIGHT

PART	WEIGHT(kg)	
MOTOR	0,76	
DECIMAL GEAR HEAD	0,22	
GEAR HEAD	K6G3~18B(C)	0,26
	K6G20~40B(C)	0,33
	K6G50~250B(C)	0,36

## INDUCTION MOTOR

### 15W

### □70mm

LEAD WIRE TYPE  
TERMINAL BOX TYPE

K7IS15N□



K7IS15N□-T



### SPECIFICATIONS

15W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/ Kgf*cm)	Rated T. (N*m/ Kgf*cm)	Speed (rpm)	Condenser (μF)
K7I□15NJ(-T)	100	50	0,45	0,08/0,8	0,12/1,2	1250	5
		60	0,41		0,1/1	1500	
K7I□15NU(-T)	110	60	0,38	0,08/0,8	0,1/1	1500	4,5
	115		0,39				
K7I□15NL(-T)	200	50	0,21	0,09/0,9	0,122/1,22	1200	1,5
		60	0,22	0,095/0,95	0,1/1	1500	
K7I□15NC(-T)	220	50	0,2	0,075/0,75	0,12/1,2	1250	1
		60	0,19		0,1/1	1500	
	230	50	0,21	0,08/0,8	0,12/1,2	1250	
		60	0,2		0,1/1	1500	
K7I□15ND(-T)	240	50	0,23	0,085/0,85	0,12/1,2	1250	1

\* □ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	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
	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
K7I□15N□(-T) K7G□B(C)	0,29	0,35	0,49	0,58	0,73	0,87	0,97	1,22	1,46	1,75	1,75	2,19	2,62	3,15	3,50	3,94	4,72	5	5	5	5	5	5	5	5
	2,9	3,5	4,9	5,8	7,3	8,7	9,7	12,2	14,6	17,5	17,5	21,9	26,2	31,5	35,0	39,4	47,2	50	50	50	50	50	50	50	50

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K7I□15N□(-T) K7G□B(C)	0,24	0,29	0,41	0,49	0,61	0,73	0,81	1,01	1,22	1,46	1,46	1,82	2,19	2,62	2,92	3,28	3,94	4,92	5	5	5	5	5	5	5
	2,4	2,9	4,1	4,9	6,1	7,3	8,1	10,1	12,2	14,6	14,6	18,2	21,9	26,2	29,2	32,8	39,4	49,2	50	50	50	50	50	50	50

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

\*   color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

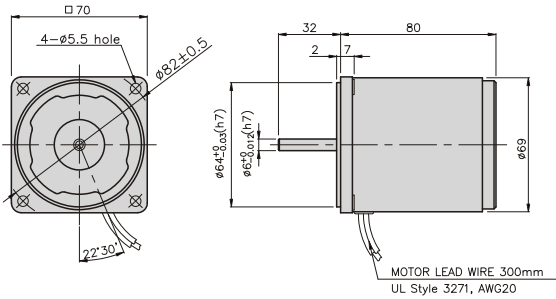
\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 5N · m/50kgfcm.

\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

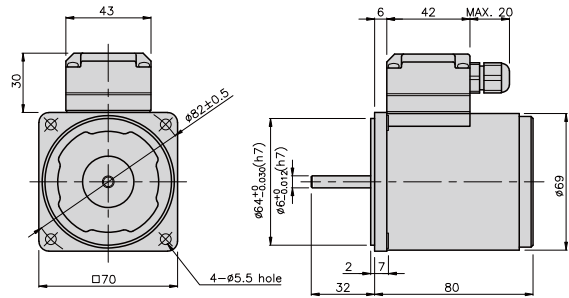
## GEARHEADS

### DIMENSIONS

K7IS15N □

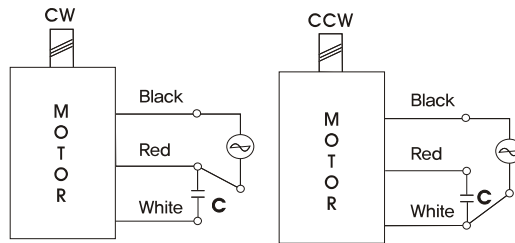


K7IS15N □-T



### CONNECTION DIAGRAMS

K7IS15N □

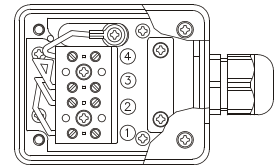
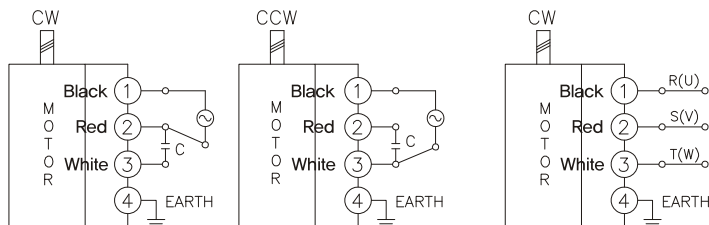


The direction of motor rotation is as viewed from the front shaft end of the motor

K7IS15N □-T

single phase motor

three phase motor



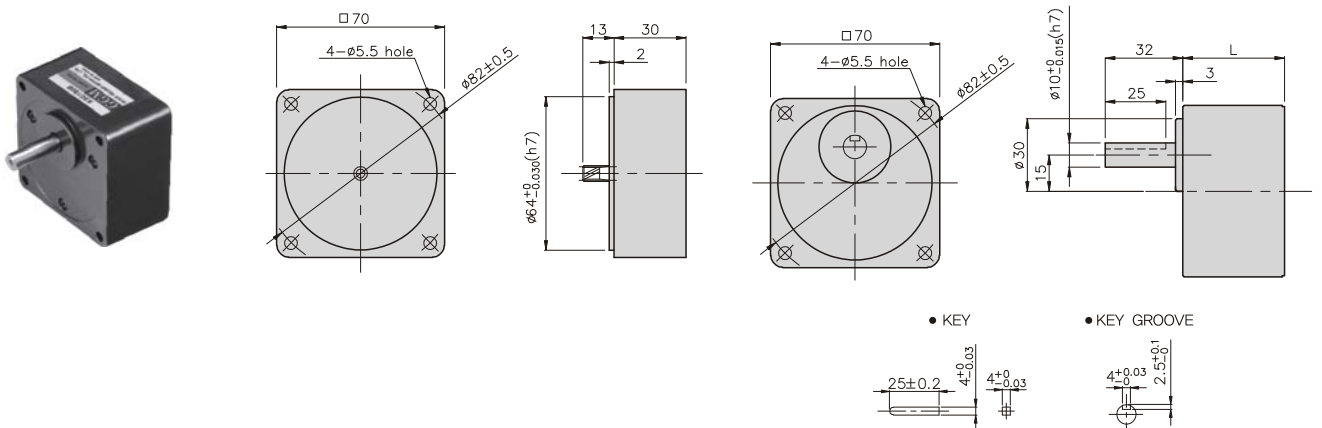
The direction of motor rotation is as viewed from the front shaft end of the motor

### DIMENSIONS

K7G □B(C)

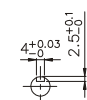
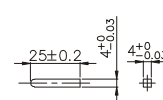
DECIMAL GEARHEAD  
K7G10BX

GEARHEAD  
K7G □B(C)



• KEY

• KEY GROOVE





## GEARHEADS

### DIMENSIONS

K7IG15N□ + K7G□B(C)



K7IG15N□-T + K7G□B(C)



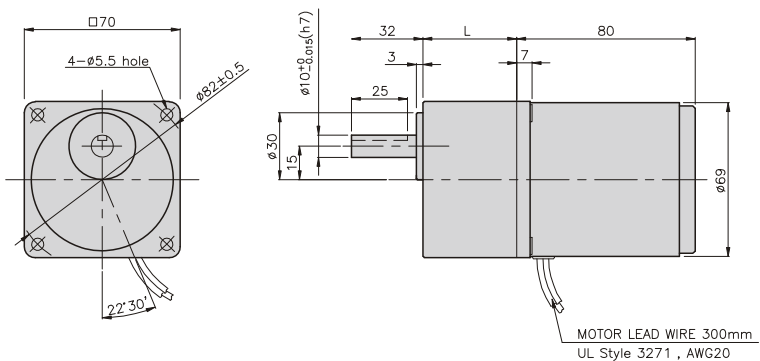
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	32	K7G3~18B(C)	M5 P0,8 X 50
02	42	K7G20~200B(C)	M5 P0,8 X 65
03	30	K7G10BX	M5 P0,8 X 90

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	1,07	
DECIMAL GEAR HEAD	0,32	
GEAR HEAD	K7G3~18B(C)	0,38
	K7G20~40B(C)	0,46
	K7G50~200B(C)	0,51

K7IG15N□ + K7G□B(C)



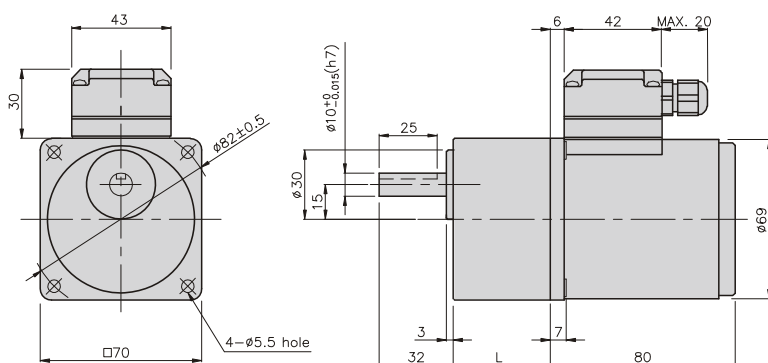
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	32	K7G3~18B(C)	M5 P0,8 X 50
02	42	K7G20~200B(C)	M5 P0,8 X 65
03	30	K7G10BX	M5 P0,8 X 90

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	1,10	
DECIMAL GEAR HEAD	0,32	
GEAR HEAD	K7G3~18B(C)	0,38
	K7G20~40B(C)	0,46
	K7G50~200B(C)	0,51

K7IG15N□-T + K7G□B(C)



## INDUCTION MOTOR

### 25W

### □ 80mm

### LEAD WIRE TYPE TERMINAL BOX TYPE

K8IS25N□



K8IS25N□-T, T5



### SPECIFICATIONS

25W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/Kgf*cm)	Rated T. (N*m/Kgf*cm)	Speed (rpm)	Condenser (μF)
K8I□25NJ(-T, -T5)	100	50	0.59	0.11/1.1	0.195/1.95	1250	7
		60	0.54		0.16/1.6	1550	
K8I□25NU(-T, -T5)	110	60	0.48	0.09/0.9	0.165/1.65	1500	5
			0.5				
K8I□25NL(-T, -T5)	200	50	0.26	0.115/1.15	0.195/1.95	1250	1.8
		60	0.28		0.16/1.6	1550	
K8I□25NC(-T, -T5)	220	50	0.28	0.11/1.1	0.195/1.95	1250	1.5
		60	0.25		0.16/1.6	1550	
K8I□25ND(-T, -T5)	230	50	0.29	0.12/1.2	0.195/1.95	1250	1.5
		60	0.26		0.16/1.6	1550	
K8I□25ND(-T, -T5)	240	50	0.3	0.11/1.1	0.195/1.95	1250	1.2
K8I□25NT(-T, -T5)	200	50	0.27	0.5/5	0.19/1.9	1300	-
		60	0.24	0.4/4	0.16/1.6	1550	-
K8I□25NH(-T, -T5)	220	50	0.28	0.6/6	0.185/1.85	1350	-
		60	0.24	0.48/4.8	0.155/1.55	1600	-
K8I□25NH(-T, -T5)	230	50	0.29	0.65/6.5	0.185/1.85	1350	-
		60	0.25	0.52/5.2	0.155/1.55	1600	-
K8I□25NM(-T, -T5)	380	50	0.17	0.6/6	0.19/1.9	1300	-
		60	0.14	0.48/4.8	0.155/1.55	1600	-
K8I□25NV(-T, -T5)	400	50	0.17	0.73/7.3	0.19/1.9	1300	-
		60	0.15	0.6/6	0.155/1.55	1600	-
K8I□25NQ(-T, -T5)	415	50	0.13	0.55/5.5	0.19/1.9	1300	-
		60	0.11	0.4/4	0.155/1.55	1600	-
K8I□25NZ(-T, -T5)	440	50	0.14	0.63/6.3	0.19/1.9	1300	-
		60	0.12	0.5/5	0.155/1.55	1600	-

\* □ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	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	6
	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	250
K8I□25N□(-T, -T5) K8G□B(C)	0.45	0.54	0.75	0.90	1.12	1.35	1.50	1.87	2.25	2.70	2.70	3.37	4.05	4.86	5.39	6.07	7.28	8	8	8	8	8	8	8	8	8
	4.5	5.4	7.5	9.0	11.2	13.5	15.0	18.7	22.5	27.0	27.0	33.7	40.5	48.6	53.9	60.7	72.8	80	80	80	80	80	80	80	80	80

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9	7.2
	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	250
K8I□25N□(-T, -T5) K8G□B(C)	0.38	0.45	0.63	0.75	0.94	1.13	1.26	1.57	1.88	2.26	2.26	2.82	3.39	4.07	4.52	5.08	6.10	7.63	8	8	8	8	8	8	8	8
	3.8	4.5	6.3	7.5	9.4	11.3	12.6	15.7	18.8	22.6	22.6	28.2	33.9	40.7	45.2	50.8	61.0	76.3	80	80	80	80	80	80	80	80

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

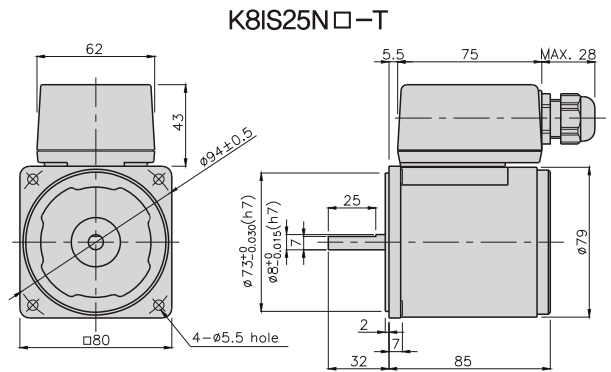
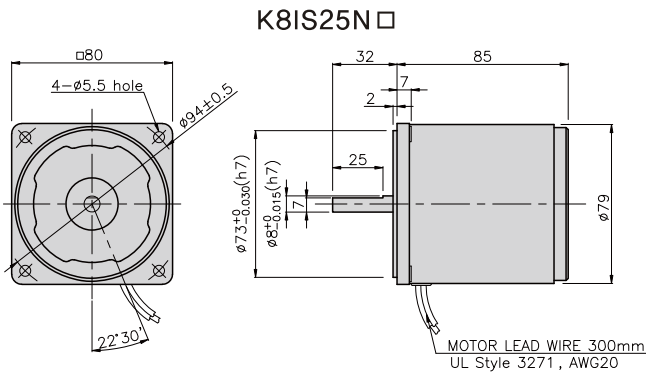
\*   color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 8N · m/80kgfcm. But, if you install 1/25~1/40 gearhead, the permissible torque is 6N · m/60kgfcm.

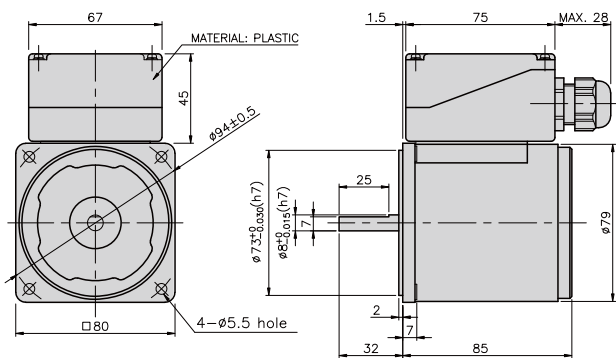
\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

## GEARHEADS

### DIMENSIONS



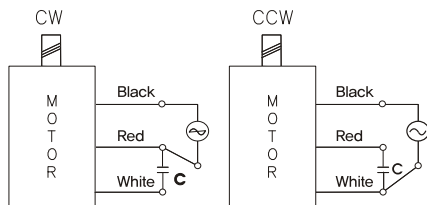
**K8IS25N□-T5**



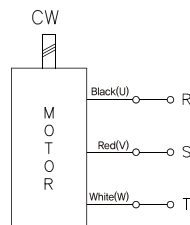
### CONNECTION DIAGRAMS

**K8IS25N□**

single phase motor



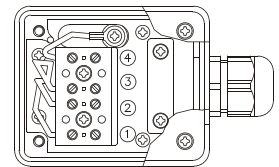
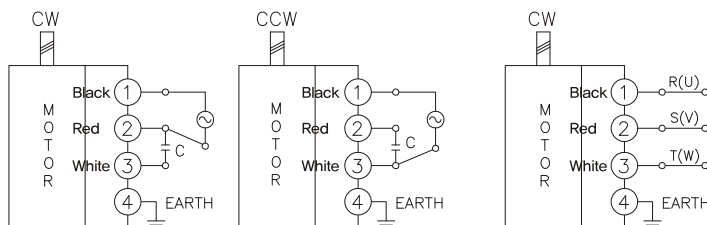
three phase motor



The direction of motor rotation is as viewed from the front shaft end of the motor

connecting two leadwires of U,V,W in turns

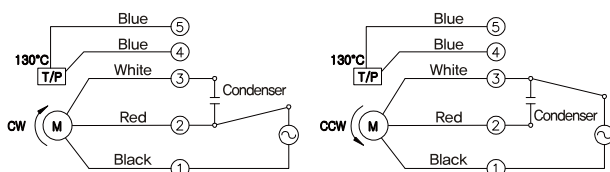
**K8IS25N□-T**



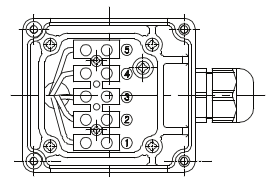
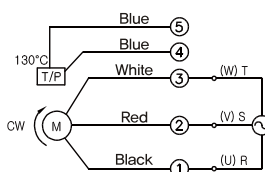
The direction of motor rotation is as viewed from the front shaft end of the motor

**K8IS25N□-T5**

single phase motor



three phase motor



connecting two leadwires of U,V,W in turns

The direction of motor rotation is as viewed from the front shaft end of the motor

**GEARHEADS**

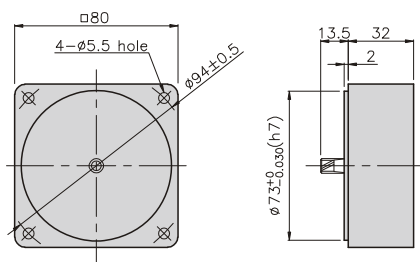
DIMENSIONS

K8G□B(C)



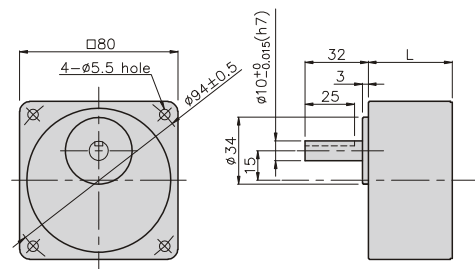
DECIMAL GEARHEAD

K8G10BX



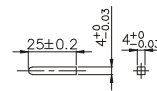
GEAR HEAD

K8G□B(C)



• KEY

• KEY GROOVE



## GEARHEADS

### DIMENSIONS

K8IG25N□ + K8G□B(C)



K8IG25N□-T(-T5) + K8G□B(C)



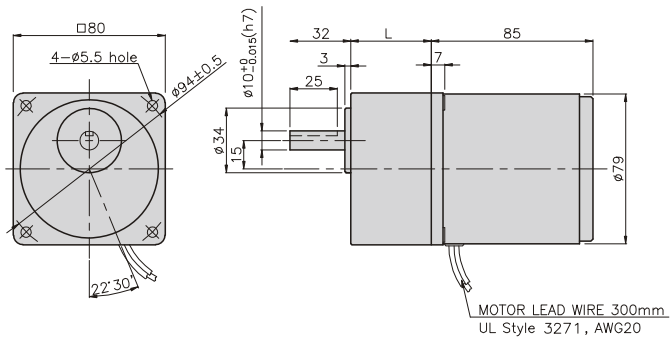
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	32	K8G3~18B(C)	M5 P0,8 X 50
02	42,5	K8G20~250B(C)	M5 P0,8 X 65
03	32	K8G10BX	M5 P0,8 X 95

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	1,58	
DECIMAL GEAR HEAD	0,46	
GEAR HEAD	K8G3~18B(C)	0,51
	K8G20~40B(C)	0,64
	K8G50~250B(C)	0,70

K8IG25N□ + K8G□B(C)



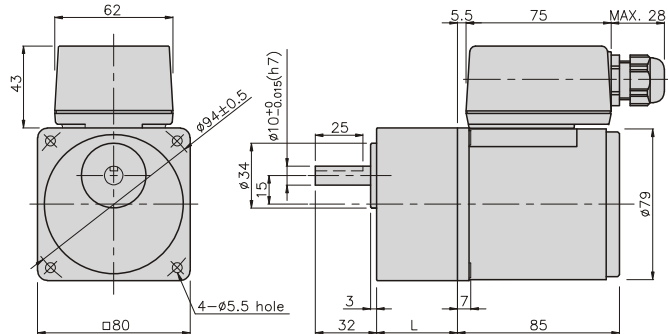
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	32	K8G3~18B(C)	M5 P0,8 X 50
02	42,5	K8G20~250B(C)	M5 P0,8 X 60
03	32	K8G10BX	M5 P0,8 X 95

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	1,76	
DECIMAL GEAR HEAD	0,46	
GEAR HEAD	K8G3~18B(C)	0,51
	K8G20~40B(C)	0,64
	K8G50~250B(C)	0,70

K8IG25N□-T + K8G□B(C)



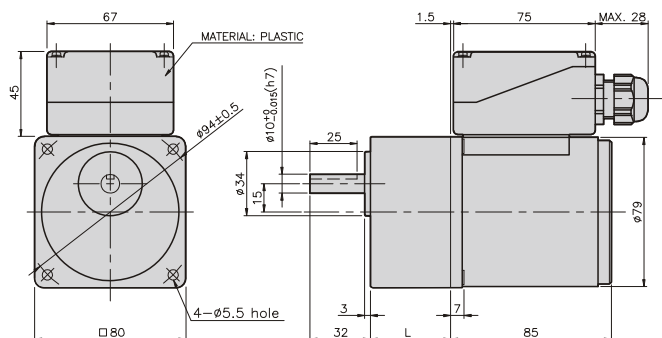
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	32	K8G3~18B(C)	M5 P0,8 X 50
02	42,5	K8G20~250B(C)	M5 P0,8 X 60
03	32	K8G10BX	M5 P0,8 X 95

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	1,76	
DECIMAL GEAR HEAD	0,46	
GEAR HEAD	K8G3~18B(C)	0,51
	K8G20~40B(C)	0,64
	K8G50~250B(C)	0,70

K8IG25N□-T5 + K8G□B(C)



## INDUCTION MOTOR

### 40W

### □90mm

### LEAD WIRE TYPE TERMINAL BOX TYPE

K9IS40N□



K9IS40N□-T, T5



### SPECIFICATIONS

40W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/Kgf*cm)	Rated T. (N*m/Kgf*cm)	Speed (rpm)	Condenser (μF)			
single-phase	K9I□40NJ(-T, -T5)	100	50	0.86	0.21/2.1	0.315/3.15	1250	12			
			60	0.84	0.22/2.2	0.255/2.55	1550				
	K9I□40NU(-T, -T5)	110	60	0.65	0.19/1.9	0.255/2.55	1550	8			
				115	0.68				0.2/2		
	K9I□40NL(-T, -T5)	200	50	0.4	0.22/2.2	0.315/3.15	1250	3			
				60		0.41	0.255/2.55		1550		
	K9I□40NC(-T, -T5)	220	50	0.38	0.24/2.4	0.315/3.15	1250	2.5			
				60		0.37	0.255/2.55		1550		
				230		50	0.4		0.26/2.6	0.315/3.15	1250
						60	0.38			0.255/2.55	1550
	K9I□40ND(-T, -T5)	240	50	0.39	0.2/2	0.3/3	1300	2			
	three-phase	K9I□40NT(-T, -T5)	200	50	0.39	1/10	0.3/3	1300	-		
60				0.32	0.78/7.8	0.245/2.45	1600				
K9I□40NH(-T, -T5)		220	50	0.33	0.95/9.5	0.29/2.9	1350	-			
				60			0.31		0.78/7.8	0.245/2.45	1600
		230	50	0.41	1/10	0.29/2.9	1350				
			60	0.32	0.83/8.3	0.245/2.45	1600				
K9I□40NM(-T, -T5)		380	50	0.18	1/10	0.29/2.9	1350	-			
					60	0.78/7.8	0.245/2.45		1600		
K9I□40NV(-T, -T5)		400	50	0.18	1.15/11.5	0.29/2.9	1350	-			
				60	0.19	0.88/8.8	0.245/2.45		1600		
K9I□40NQ(-T, -T5)		415	50	0.16	0.95/9.5	0.29/2.9	1350	-			
				60	0.14	0.72/7.2	0.245/2.45		1600		
K9I□40NZ(-T, -T5)	440	50	0.19	1/10	0.29/2.9	1350	-				
			60	0.16	0.79/7.9	0.245/2.45		1600			

\* □ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	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
	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
K9I□40N□(-T, -T5) K9G□B(C)	0.70	0.85	1.17	1.41	1.76	2.11	2.35	2.94	3.52	4.23	4.23	5.29	6.34	7.61	8.46	10	10	10	10	10	10	10	10	10	10
	7.0	8.5	11.7	14.1	17.6	21.1	23.5	29.4	35.2	42.3	42.3	52.9	63.4	76.1	84.6	100	100	100	100	100	100	100	100	100	100

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□40N□(-T, -T5) K9G□B(C)	0.60	0.71	0.99	1.19	1.49	1.79	1.98	2.48	2.98	3.57	3.57	4.47	5.36	6.43	7.14	8.04	10	10	10	10	10	10	10	10	10
	6.0	7.1	9.9	11.9	14.9	17.9	19.8	24.8	29.8	35.7	35.7	44.7	53.6	64.3	71.4	80.4	100	100	100	100	100	100	100	100	100

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

\* ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

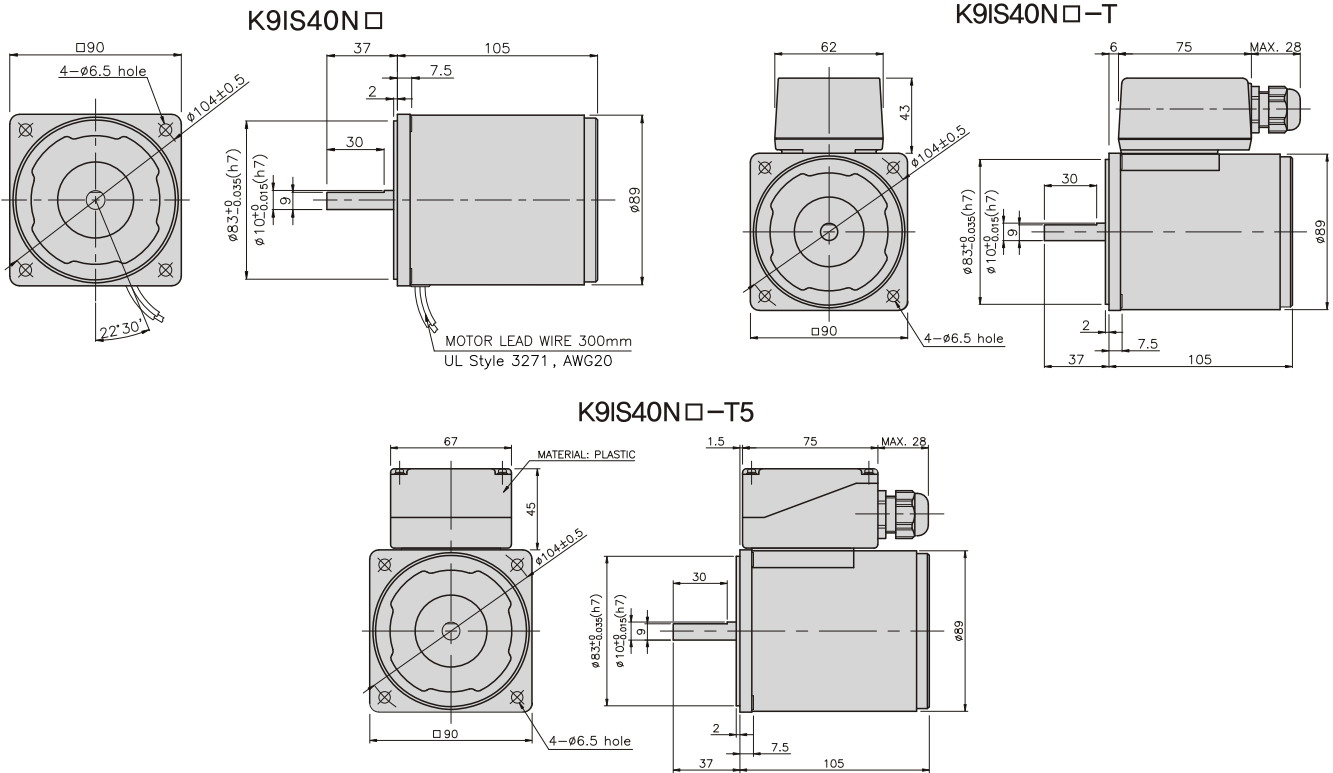
\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 10N · m/100kgfcm.

\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than

indicating rpm according to load size.

## GEARHEADS

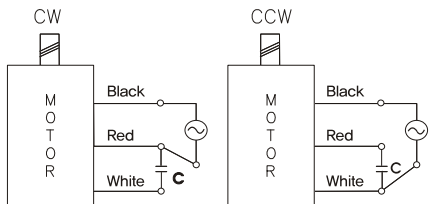
### DIMENSIONS



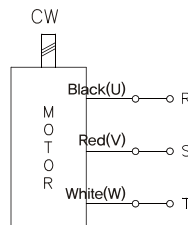
### CONNECTION DIAGRAMS

#### K9IS40N□

##### single phase motor



##### three phase motor

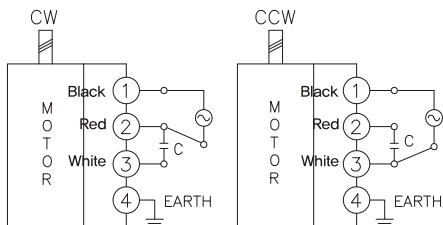


connecting two leadwires of U,V,W in turns

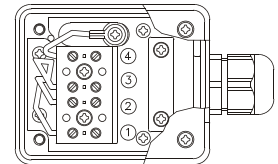
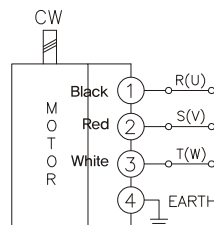
The direction of motor rotation is as viewed from the front shaft end of the motor

#### K9IS40N□-T

##### single phase motor



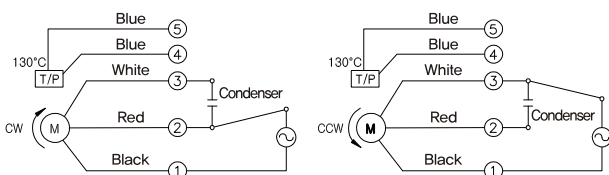
##### three phase motor



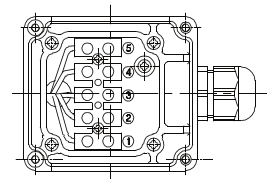
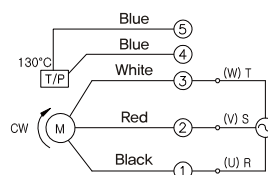
The direction of motor rotation is as viewed from the front shaft end of the motor

#### K9IS40N□-T5

##### single phase motor



##### three phase motor



connecting two leadwires of U,V,W in turns

The direction of motor rotation is as viewed from the front shaft end of the motor

**GEARHEADS**

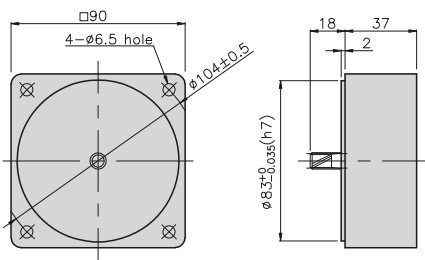
**DIMENSIONS**

**K9G□B(C)**



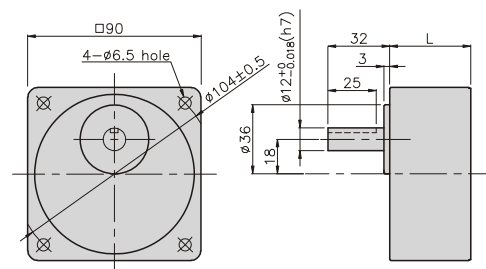
**DECIMAL GEARHEAD**

**K9G10BX**



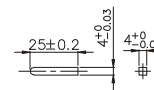
**GEAR HEAD**

**K9G□B(C)**



• KEY

• KEY GROOVE





## GEARHEADS

### DIMENSIONS

K9IG40N□ + K9G□B(C)



K9IG40N□-T(T5) + K9G□B(C)



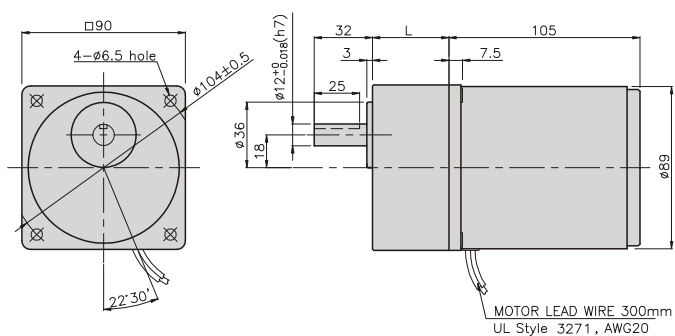
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1,0 X 65
02	60	K9G20~200B(C)	M6 P1,0 X 80
03	37	K9G10BX	M6 P1,0 X 120

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,36	
DECIMAL GEAR HEAD	0,60	
GEAR HEAD	K9G3~18B(C)	0,78
	K9G20~40B(C)	1,04
	K9G50~200B(C)	1,14

K9IG40N□ + K9G□B(C)



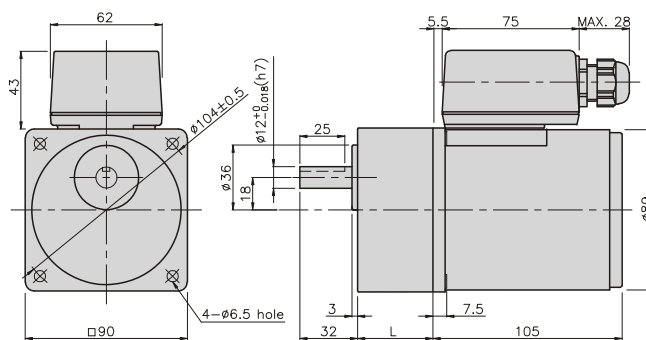
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1,0 X 65
02	60	K9G20~200B(C)	M5 P1,0 X 80
03	37	K9G10BX	M5 P1,0 X 120

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,52	
DECIMAL GEAR HEAD	0,60	
GEAR HEAD	K9G3~18B(C)	0,78
	K9G20~40B(C)	1,04
	K9G50~200B(C)	1,14

K9IG40N□-T + K9G□B(C)



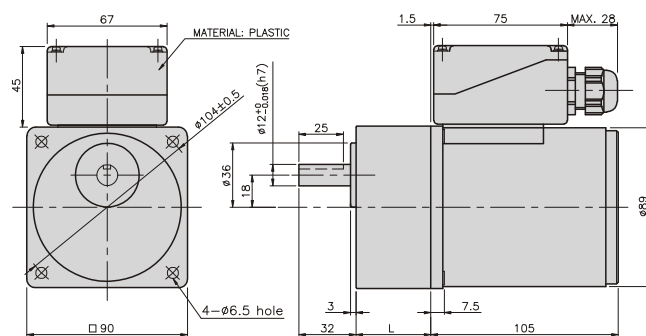
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1,0 X 65
02	60	K9G20~200B(C)	M5 P1,0 X 80
03	37	K9G10BX	M5 P1,0 X 120

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,52	
DECIMAL GEAR HEAD	0,60	
GEAR HEAD	K9G3~18B(C)	0,78
	K9G20~40B(C)	1,04
	K9G50~200B(C)	1,14

K9IG40N□-T5 + K9G□B(C)



## INDUCTION MOTOR

### 60W

### □90mm

### LEAD WIRE TYPE TERMINAL BOX TYPE

K9IS60F□



K9IS60F□-T, T5



### SPECIFICATIONS

60W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/Kgf*cm)	Rated T. (N*m/Kgf*cm)	Speed (rpm)	Condenser (μF)	
single-phase	100	50	1.36	0.38/3.8	0.47/4.7	1250	20	
		60	1.37		0.38/3.8	1550		
	110	60	1.21	0.37/3.7	0.38/3.8	1550	16	
			1.27					
	200	50	0.67	0.4/4	0.47/4.7	1250	5	
		60	0.69		0.38/3.8	1550		
	K9I□60FC(-T, -T5)	220	50	0.58	0.38/3.8	0.47/4.7	1250	4
			60	0.57		0.38/3.8	1550	
		230	50	0.63	0.4/4	0.47/4.7	1250	
			60	0.63		0.38/3.8	1550	
	K9I□60FD(-T, -T5)	240	50	0.69	0.44/4.4	0.47/4.7	1250	4
	three-phase	200	50	0.49	1.35/13.5	0.45/4.5	1300	-
60			0.45	1.05/10.5	0.38/3.8	1550		
220		50	0.55	1.6/16	0.435/4.35	1350	-	
		60	0.47	1.2/12	0.37/3.7	1600		
230		50	0.6	1.65/16.5	0.435/4.35	1350	-	
		60	0.52	1.3/13	0.37/3.7	1600		
K9I□60FM(-T, -T5)		380	50	0.34	1.55/15.5	0.435/4.35	1350	-
			60	0.25	1.19/11.9	0.37/3.7	1600	
K9I□60FV(-T, -T5)		400	50	0.37	1.85/18.5	0.435/4.35	1350	-
			60	0.28	1.42/14.2	0.37/3.7	1600	
K9I□60FQ(-T, -T5)		415	50	0.26	1.45/14.5	0.45/4.5	1300	-
			60	0.21	1.15/11.5	0.37/3.7	1600	
K9I□60FZ(-T, -T5)	440	50	0.28	1.6/16	0.45/4.5	1300	-	
		60	0.23	1.25/12.5	0.37/3.7	1600		

\* □ : SHAFT SHAPE (S : STRAIGHT, P : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model	Speed(rpm)	Ratio																							
		500	416	300	250	200	166	150	120	100	83	70	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
K9I□60F□(-T, -T5) K9P□B, BF	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
	Torque	1.06	1.27	1.76	2.11	2.64	3.17	3.52	3.96	4.76	5.71	6.34	7.14	8.56	10.27	11.42	14.27	17.12	20	20	20	20	20	20	20
		10.6	12.7	17.6	21.1	26.4	31.7	35.2	39.6	47.6	57.1	63.4	71.4	85.6	102.7	114.2	142.7	171.2	200	200	200	200	200	200	200

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model	Speed(rpm)	Ratio																							
		600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
K9I□60F□(-T, -T5) K9P□B, BF	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
	Torque	0.90	1.08	1.50	1.80	2.25	2.70	3.00	3.37	4.05	4.86	5.39	6.07	7.28	8.74	9.71	12.14	14.57	16.39	20	20	20	20	20	20
		9.0	10.8	15.0	18.0	22.5	27.0	30.0	33.7	40.5	48.6	53.9	60.7	72.8	87.4	97.1	121.4	145.7	163.9	200	200	200	200	200	200

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

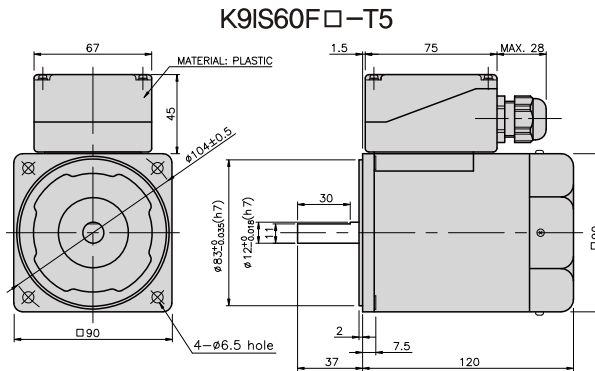
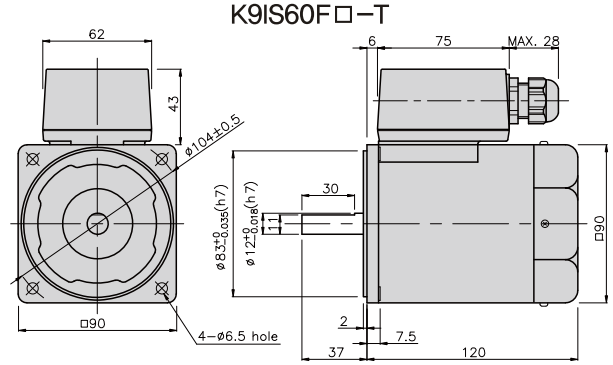
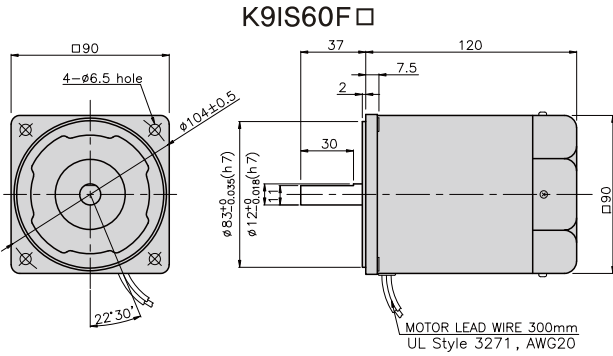
\* ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 20N · m/200kgfcm.

\* RPM is based on motor's synchronous rpm (50Hz:1500rpm, 60Hz:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

## GEARHEADS

### DIMENSIONS

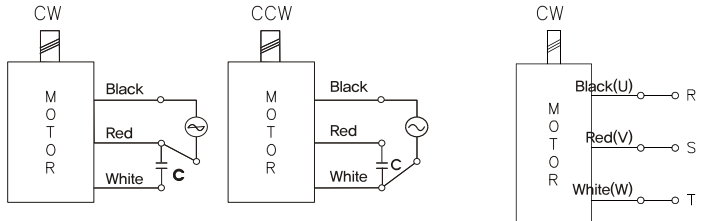


### CONNECTION DIAGRAMS

K9IS60F □

single phase motor

three phase motor



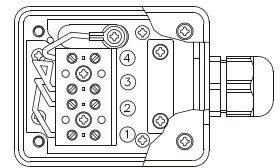
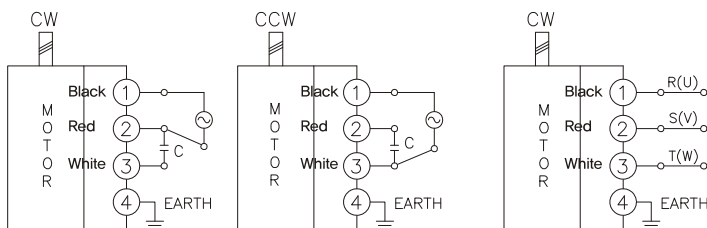
connecting two leadwires of U,V,W in turns

The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS60F □-T

single phase motor

three phase motor

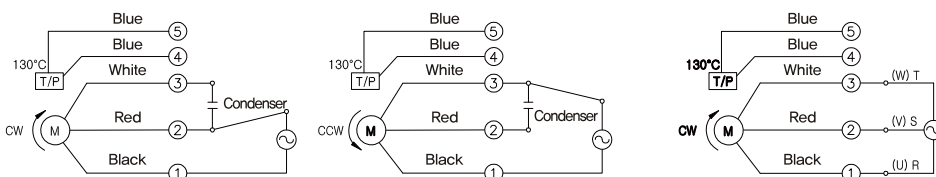


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS60F □-T5

single phase motor

three phase motor



connecting two leadwires of U,V,W in turns

The direction of motor rotation is as viewed from the front shaft end of the motor

## GEARHEADS

### DIMENSIONS

K9P□B

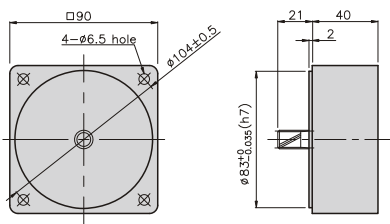


K9P□BF



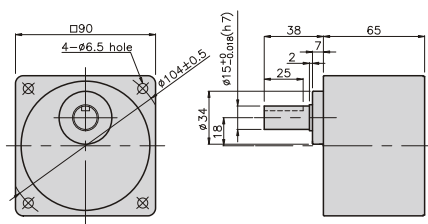
DECIMAL GEARHEAD

K9P10BX



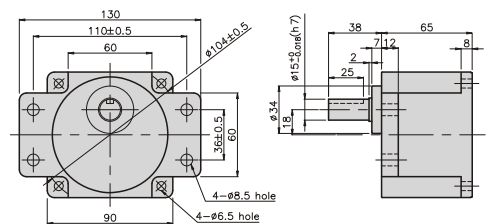
GEAR HEAD

K9P□B

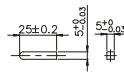


GEARHEAD

K9P□BF



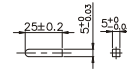
• KEY



• KEY GROOVE



• KEY



• KEY GROOVE



## GEARHEADS

### DIMENSIONS

K9IP60F□ + K9P□B



K9IP60F□ + K9P□BF



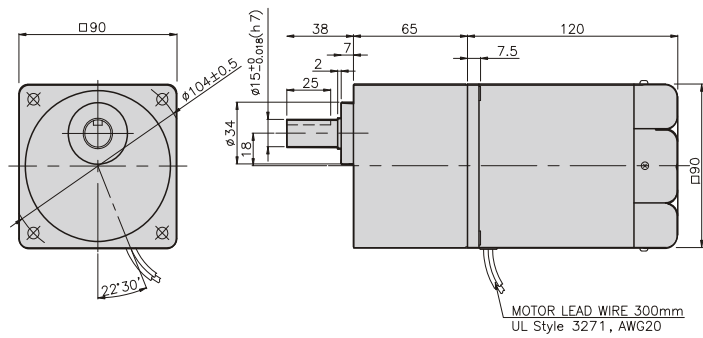
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,50	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10B	1,22
	K9P12,5~20B	1,32
	K9P25~60B	1,42
	K9P75~200B	1,45

K9IP60F□ + K9P□B



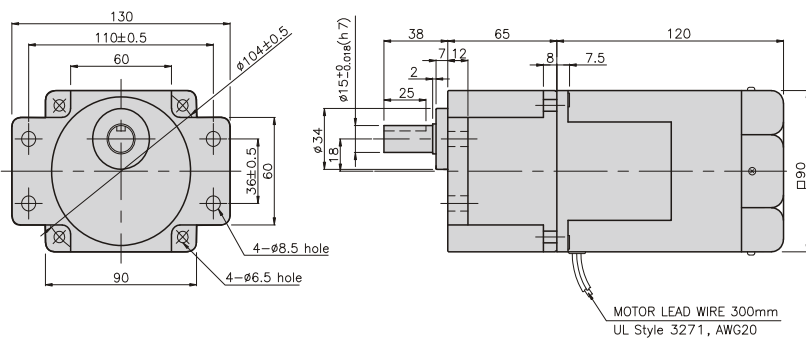
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200BF	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	3,00	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10BF	1,22
	K9P12,5~20BF	1,30
	K9P25~60BF	1,42
	K9P75~200BF	1,44

K9IP60F□ + K9P□BF



## GEARHEADS

### DIMENSIONS

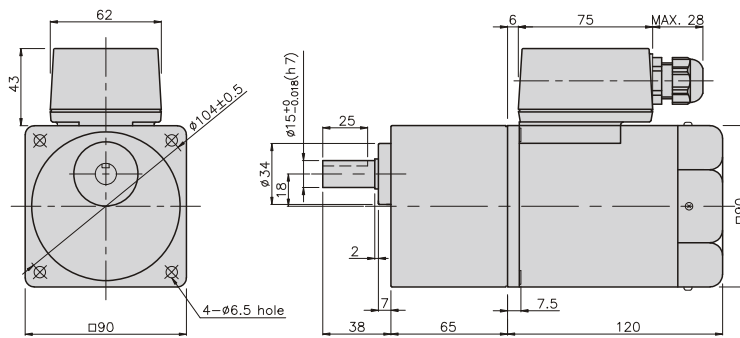
K9IP60F□-T + K9P□B



K9IP60F□-T + K9P□BF



K9IP60F□-T + K9P□B



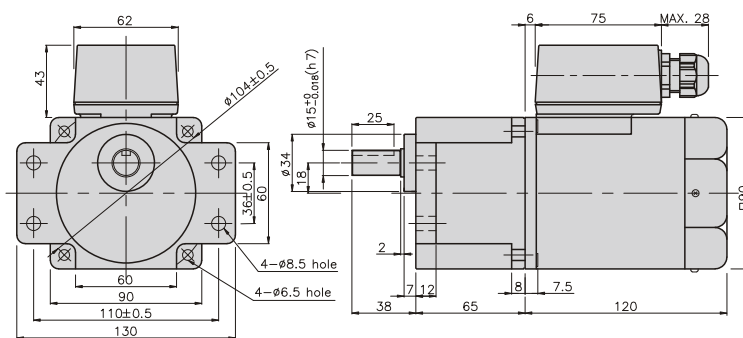
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,68	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10B	1,22
	K9P12,5~20B	1,32
	K9P25~60B	1,42
	K9P75~200B	1,45

K9IP60F□-T + K9P□BF



DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,68	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10BF	1,22
	K9P12,5~20BF	1,32
	K9P25~60BF	1,42
	K9P75~200BF	1,45

## GEARHEADS

### DIMENSIONS

K9IP60F□-T5 + K9P□B



K9IP60F□-T5 + K9P□BF



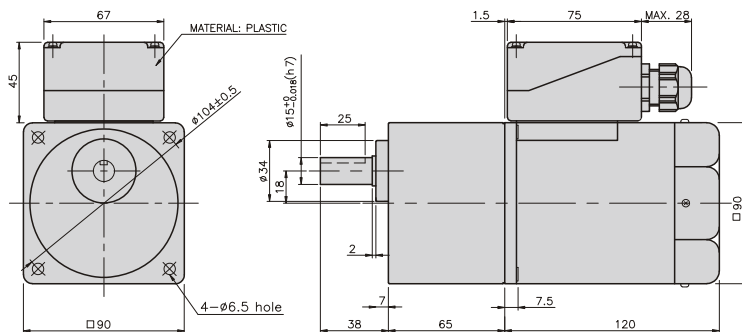
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,68	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10B	1,22
	K9P12,5~20B	1,32
	K9P25~60B	1,42
	K9P75~200B	1,45

K9IP60F□-T5 + K9P□B



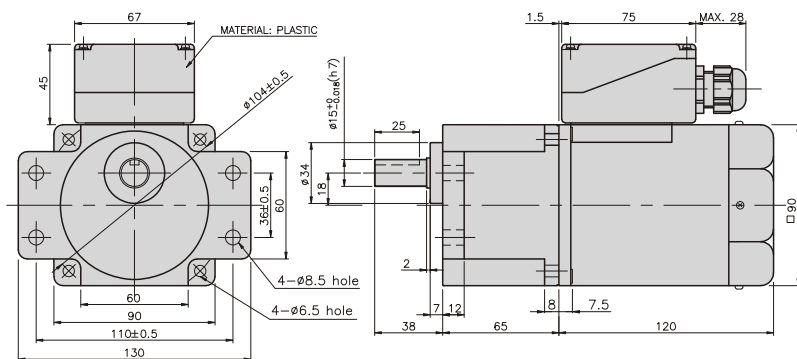
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)	
MOTOR	2,68	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10BF	1,22
	K9P12,5~20BF	1,32
	K9P25~60BF	1,42
	K9P75~200BF	1,45

K9IP60F□-T5 + K9P□BF



## INDUCTION MOTOR

### 90W

### □90mm

### LEAD WIRE TYPE TERMINAL BOX TYPE

K9IS90F□



K9IS90F□-T, T5



### SPECIFICATIONS

90W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/Kgf*cm)	Rated T. (N*m/Kgf*cm)	Speed (rpm)	Condenser (μF)	
K9I□90FJ(-T, -T5)	single-phase	100	50	2.07	0.55/5.5	0.675/6.75	1300	30	
			60	1.97		0.55/5.5	1600		
K9I□90FU(-T, -T5)		110	115	60	1.47	0.44/4.4	0.55/5.5	1600	20
				60	1.52				
K9I□90FL(-T, -T5)		200	200	50	0.75	0.5/5	0.675/6.75	1300	7
				60	0.97		0.57/5.7	1550	
K9I□90FC(-T, -T5)		220	230	50	0.8	0.5/5	0.675/6.75	1300	6
				60	0.9		0.57/5.7	1550	
				50	0.87	0.55/5.5	0.675/6.75	1300	
				60	0.93		0.57/5.7	1550	
K9I□90FD(-T, -T5)	240	50	0.85	0.5/5	0.675/6.75	1300	5		
K9I□90FT(-T, -T5)	three-phase	200	50	0.79	2.25/22.5	0.65/6.5	1350	-	
			60	0.72	1.75/17.5	0.55/5.5	1600		
K9I□90FH(-T, -T5)		220	230	50	0.72	2.35/23.5	0.65/6.5	1350	-
				60	0.63	1.8/18	0.55/5.5	1600	
K9I□90FM(-T, -T5)		380	400	60	0.86	2.45/24.5	0.65/6.5	1350	-
				60	0.66	1.95/19.5	0.55/5.5	1600	
K9I□90FV(-T, -T5)		400	415	50	0.43	2.35/23.5	0.65/6.5	1350	-
				60	0.37	1.7/17	0.55/5.5	1600	
K9I□90FQ(-T, -T5)		415	440	50	0.52	2.65/26.5	0.65/6.5	1350	-
				60	0.45	2.1/21	0.55/5.5	1600	
K9I□90FQ(-T, -T5)	415	440	50	0.39	2/20	0.68/6.8	1300	-	
			60	0.31	1.5/15	0.55/5.5	1600		
K9I□90FZ(-T, -T5)	440	440	50	0.45	2.1/21	0.68/6.8	1300	-	
			60	0.39	1.7/17	0.55/5.5	1600		

\* □ : SHAFT SHAPE (S : STRAIGHT, P : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	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
	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
K9I□90F□(-T, -T5) K9P□B, BF	1.58	1.90	2.63	3.16	3.95	4.74	5.27	5.92	7.11	8.53	9.48	10.66	12.79	15.35	17.06	20	20	20	20	20	20	20	20	20	20
	15.8	19.0	26.3	31.6	39.5	47.4	52.7	59.2	71.1	85.3	94.8	106.6	127.9	153.5	170.6	200	200	200	200	200	200	200	200	200	200

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□90F□(-T, -T5) K9P□B, BF	1.34	1.60	2.23	2.67	3.34	4.01	4.46	5.01	6.01	7.22	8.02	9.02	10.83	12.99	14.43	18.04	20	20	20	20	20	20	20	20	20
	13.4	16.0	22.3	26.7	33.4	40.1	44.6	50.1	60.1	72.2	80.2	90.2	108.3	129.9	144.3	180.4	200	200	200	200	200	200	200	200	200

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

\* ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 20N · m/200kgfcm.

\* RPM is based on motor's synchronous rpm (50Hz:1500rpm, 60Hz:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.



## GEARHEADS

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	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
	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
K9I□90F□(-T, T5) K9P□BU, BUF		1,58	190	2,63	3,16	3,95	4,74	5,27	5,92	7,11	8,53	9,48	10,66	12,79	15,35	17,06	21,32	25,59	30	30	30	30	30	30	30
		15,8	19,0	26,3	31,6	39,5	47,4	52,7	59,2	71,1	85,3	94,8	106,6	127,9	153,5	170,6	213,2	255,9	300	300	300	300	300	300	300

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□90F□(-T, T5) K9P□BU, BUF		1,34	1,60	2,23	2,67	3,34	4,01	4,46	5,01	6,01	7,22	8,02	9,02	10,83	12,99	14,43	18,04	21,65	24,36	29,23	30	30	30	30	30
		13,4	16,0	22,3	26,7	33,4	40,1	44,6	50,1	60,1	72,2	80,2	90,2	108,3	129,9	144,3	180,4	216,5	243,6	292,3	300	300	300	300	300

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

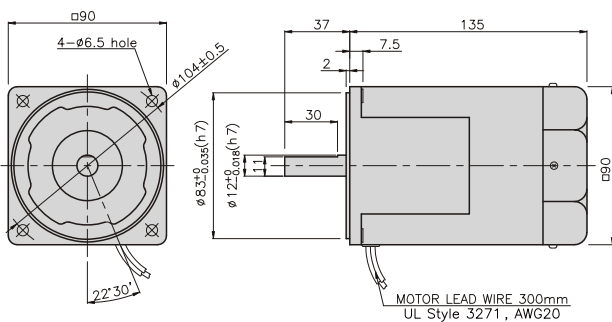
\* ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor, Others indicate rotation in the opposite direction.

\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 30N · m/300kgfcm.

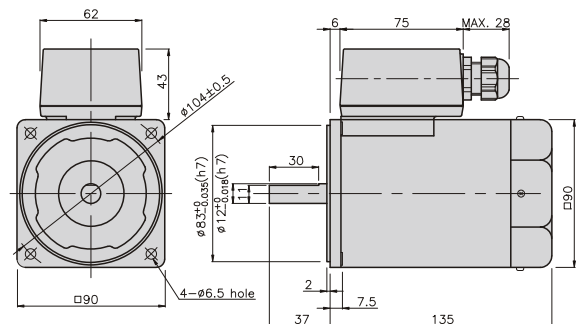
\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

### DIMENSIONS

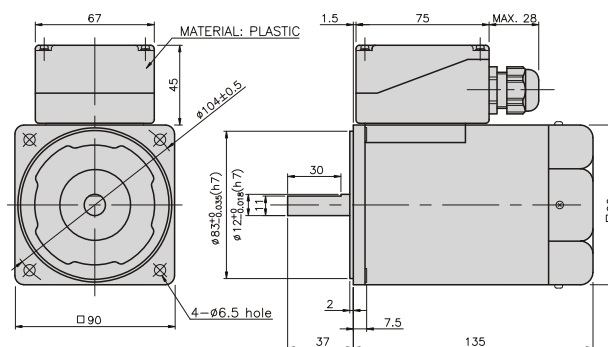
#### K9IS90F□



#### K9IS90F□-T



#### K9IS90F□-T5

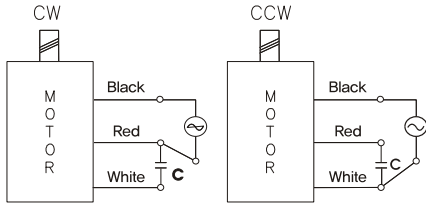


## GEARHEADS

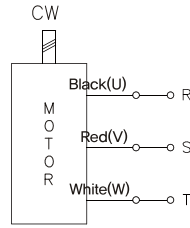
### CONNECTION DIAGRAMS

K9IS90F□

single phase motor



three phase motor

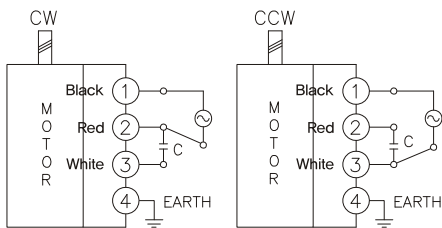


connecting two leadwires of U,V,W in turns

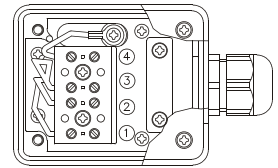
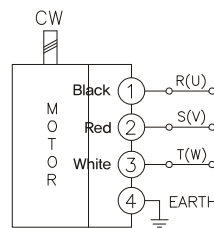
The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS90F□-T

single phase motor



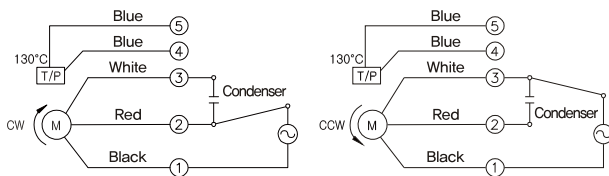
three phase motor



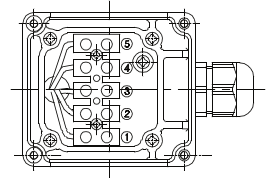
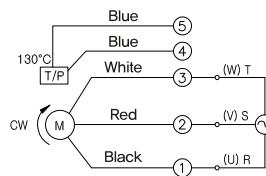
The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS90F□-T5

single phase motor



three phase motor



connecting two leadwires of U,V,W in turns

The direction of motor rotation is as viewed from the front shaft end of the motor

## GEARHEADS

### DIMENSIONS

K9P□B



K9P□BF, BUF

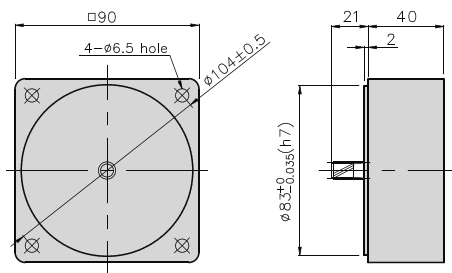


K9P□BU



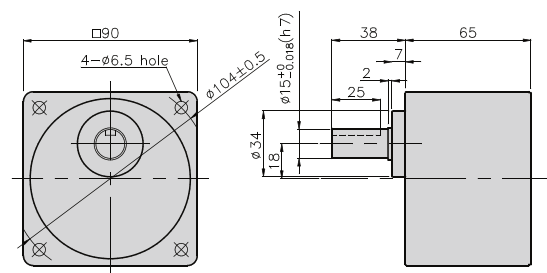
DECIMAL GEARHEAD

K9P10BX



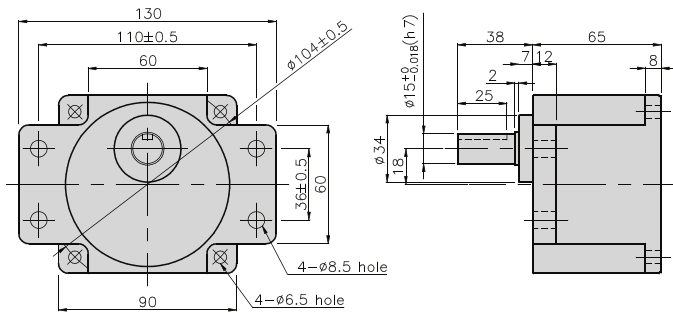
GEAR HEAD

K9P□B



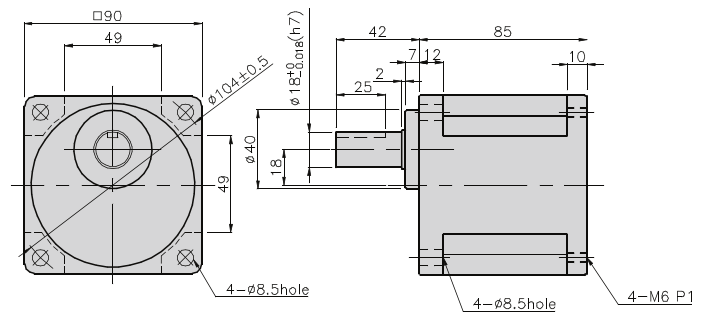
GEARHEAD

K9P□BF



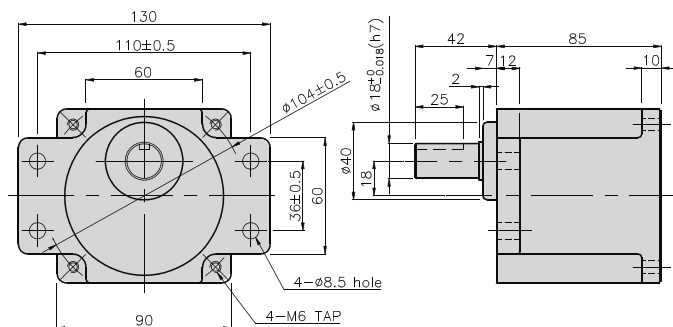
GEARHEAD

K9P□BU



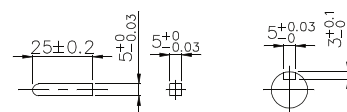
GEARHEAD

K9P□BUF



• KEY

• KEY GROOVE



## GEARHEADS

### DIMENSIONS

K9IP90F□ + K9P□B



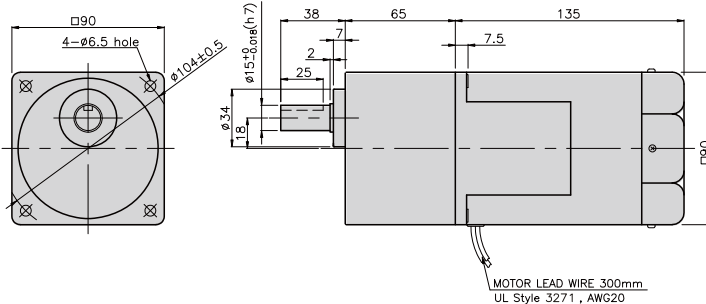
K9IP90F□ + K9P□BF, BUF



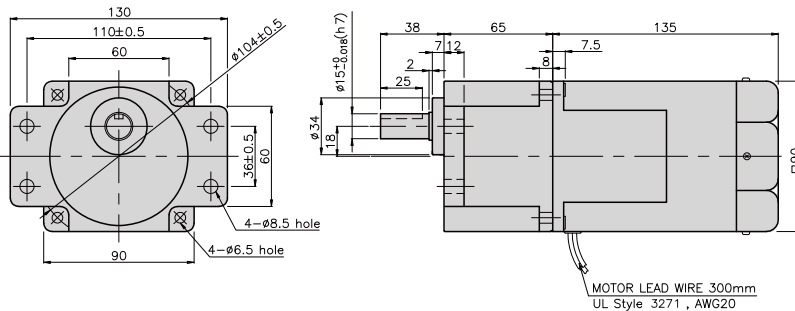
K9IP90F□ + K9P□BU



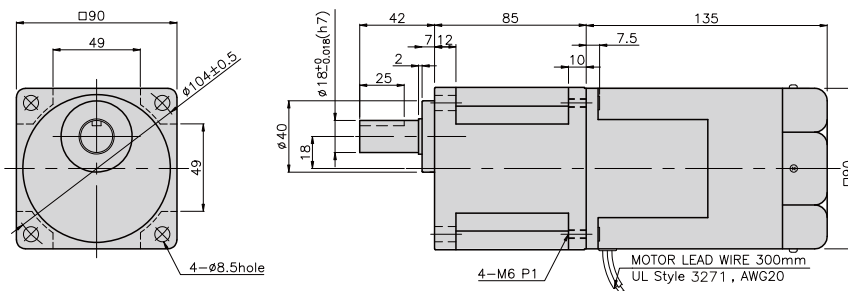
K9IP90F□ + K9P□B



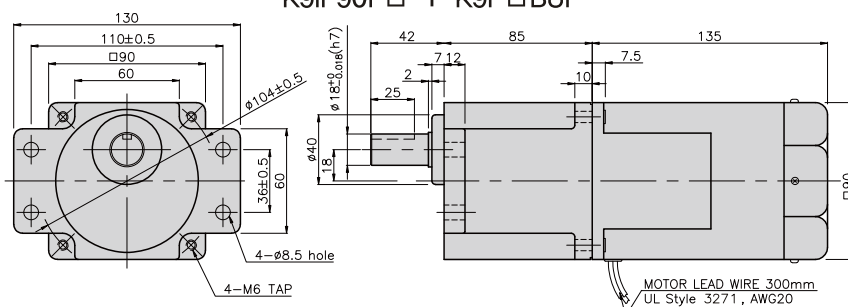
K9IP90F□ + K9P□BF



K9IP90F□ + K9P□BU



K9IP90F□ + K9P□BUF



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,00
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200BF	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

## GEARHEADS

### DIMENSIONS

K9IP90F□-T + K9P□B



K9IP90F□-T + K9P□BF, BUF



K9IP90F□-T + K9P□BU



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,18
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200BF	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

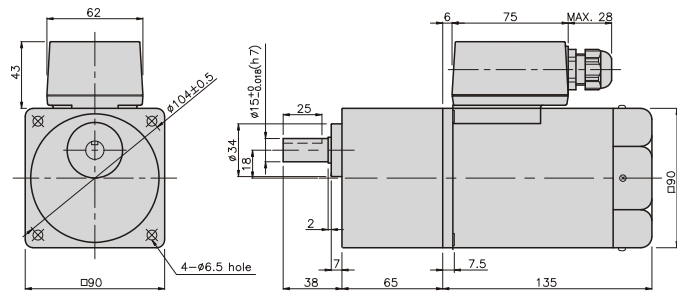
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

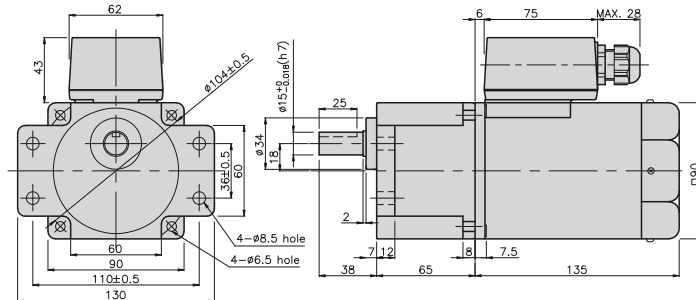
#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

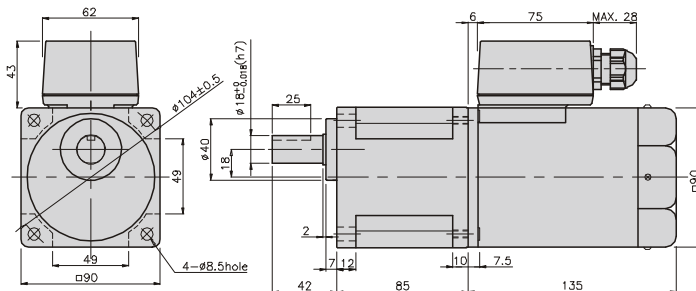
K9IP90F□-T + K9P□B



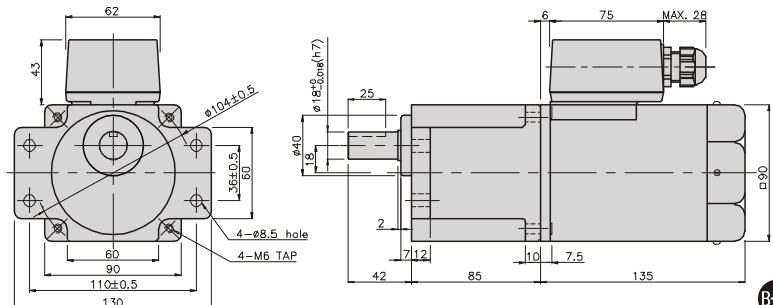
K9IP90F□-T + K9P□BF



K9IP90F□-T + K9P□BU



K9IP90F□-T + K9P□BUF



## GEARHEADS

### DIMENSIONS

K9IP90F□-T5 + K9P□B



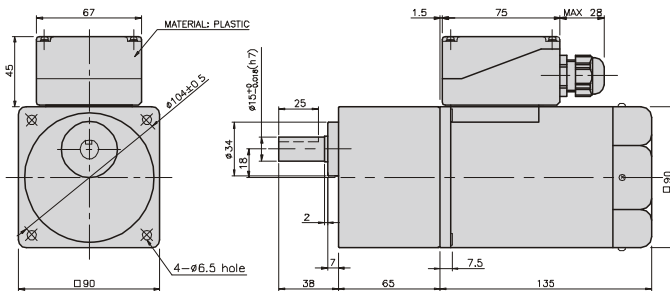
K9IP90F□-T5 + K9P□BF, BUF



K9IP90F□-T5 + K9P□BU



K9IP90F□-T5 + K9P□B



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,18
DECIMAL GEAR HEAD	0,62

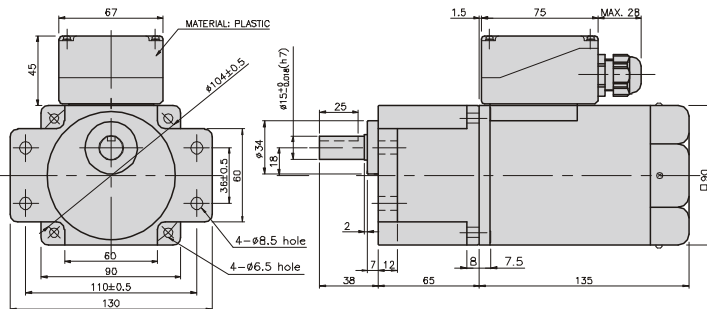
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

K9IP90F□-T5 + K9P□BF



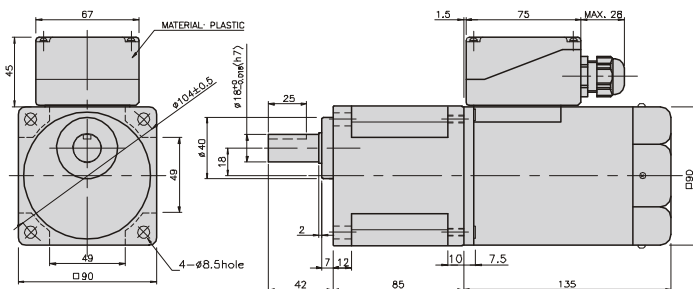
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200BF	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

K9IP90F□-T5 + K9P□BU



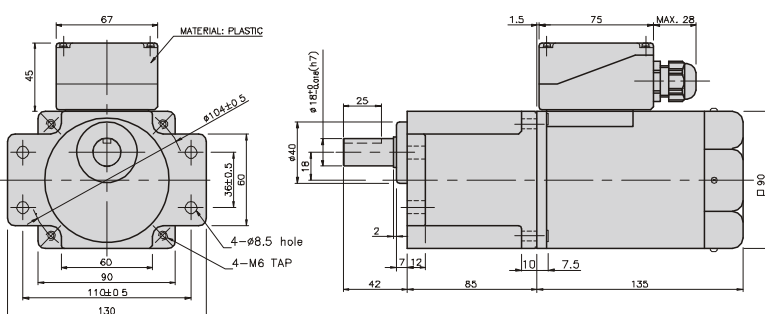
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

K9IP90F□-T5 + K9P□BUF



#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

## INDUCTION MOTOR

### 120W

### □90mm

LEAD WIRE TYPE  
TERMINAL BOX TYPE

K9IS120F□



K9IS120F□-T, T5



### SPECIFICATIONS

120W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/Kgf*cm)	Rated T. (N*m/Kgf*cm)	Speed (rpm)	Condenser (μF)
K9I□120FJ(-T, -T5)	100	50	2.2	0.6/6	0.9/9	1300	35
		60		0.65/6.5	0.735/7.35	1600	
K9I□120FU(-T, -T5)	110	60	2.13	0.65/6.6	0.735/7.35	1600	30
	115		2.3	0.7/7			
K9I□120FL(-T, -T5)	200	50	1.07	0.65/6.5	0.9/9	1300	8.5
		60	1.22	0.6/6	0.755/7.55	1550	8
K9I□120FC(-T, -T5)	220	50	0.82	0.55/5.5	0.9/9	1300	6
			230	0.85			
	220	60	1	0.6/6	0.735/7.35	1600	7
			230	1.1			
K9I□120FD(-T, -T5)	240	50	0.9	0.6/6	0.9/9	1300	6

\* □ : SHAFT SHAPE (S : STRAIGHT, P : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	13	10	8,3	7,5
	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
K9I□120F□(-T, -T5) K9P□B, BF	2.19	2.62	3.65	4.37	5.47	6.56	7.29	8.20	9.84	11.81	13.12	14.76	17.7	20	20	20	20	20	20	20	20	20	20	20	20
	21,9	26,2	36,5	43,7	54,7	65,6	72,9	82,0	98,4	118,1	131,2	147,6	177	200	200	200	200	200	200	200	200	200	200	200	200

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□120F□(-T, -T5) K9P□B, BF	1.79	2.14	2.98	3.57	4.47	5.36	5.95	6.70	8.04	9.64	10.72	12.06	14.5	17.4	19.3	20	20	20	20	20	20	20	20	20	20
	17,9	21,4	29,8	35,7	44,7	53,6	59,5	67,0	80,4	96,4	107,2	120,6	145	174	193	200	200	200	200	200	200	200	200	200	200

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

\* ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 20N · m/200kgfcm.

\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

## GEARHEADS

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	13	10	8,3	7,5
	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
K9I□120F□(-T, -T5) K9P□BU, BUF		2,19	2,62	3,65	4,37	5,47	6,56	7,29	8,20	9,84	11,81	13,12	14,76	17,71	21,26	23,62	29,52	30	30	30	30	30	30	30	30
		21,9	26,2	36,5	43,7	54,7	65,6	72,9	82,0	98,4	118,1	131,2	147,6	177,1	212,6	236,2	295,2	300	300	300	300	300	300	300	300

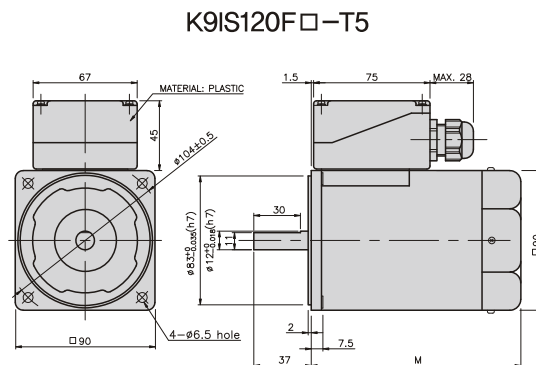
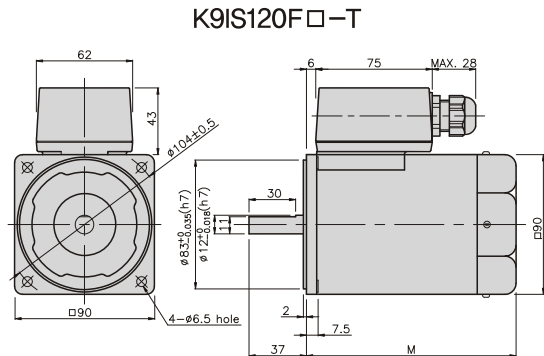
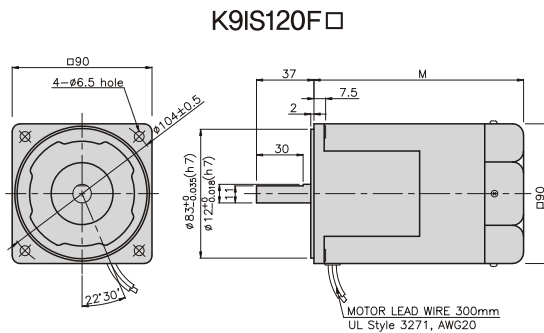
#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□120F□(-T, -T5) K9P□BU, BUF		1,79	2,14	2,98	3,57	4,47	5,36	5,95	6,70	8,04	9,64	10,72	12,06	14,47	17,36	19,29	24,11	28,93	30	30	30	30	30	30	30
		17,9	21,4	29,8	35,7	44,7	53,6	59,5	67,0	80,4	96,4	107,2	120,6	144,7	173,6	192,9	241,1	289,3	300	300	300	300	300	300	300

- \* Gearhead and decimal gearhead are sold separately.
- \* The code in □ of gearhead model is for gear ratio.
- \*  color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.
- \* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 30N · m/300kgfcm.
- \* RPM is based on motor's synchronous rpm (50Hz:1500rpm, 60Hz:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

### DIMENSIONS





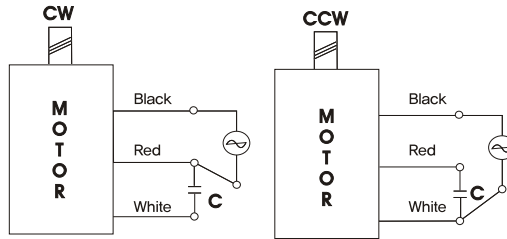
## GEARHEADS

### CONNECTION DIAGRAMS

K9IS120F□

DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

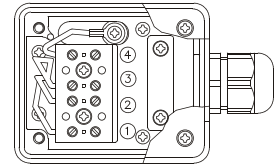
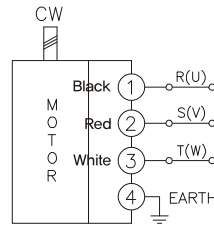
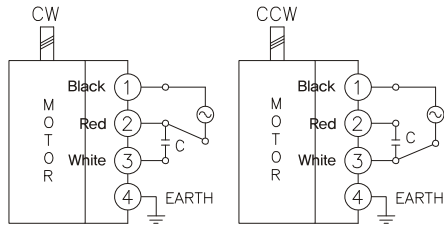


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS120F□-T

single phase motor

three phase motor

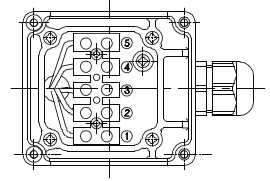
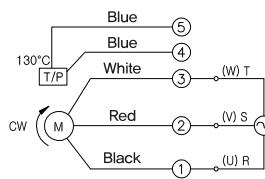
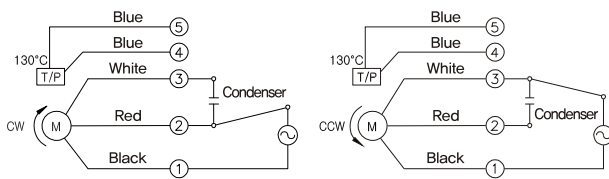


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS120F□-T5

single phase motor

three phase motor



connecting two leadwires of U,V,W in turns

The direction of motor rotation is as viewed from the front shaft end of the motor

## GEARHEADS

### DIMENSIONS

K9P□B



K9P□BF, BUF

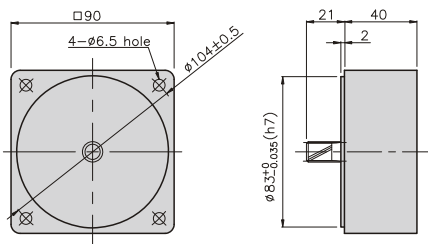


K9P□BU



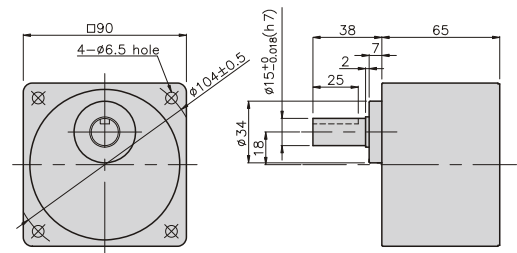
#### DECIMAL GEARHEAD

K9P10BX



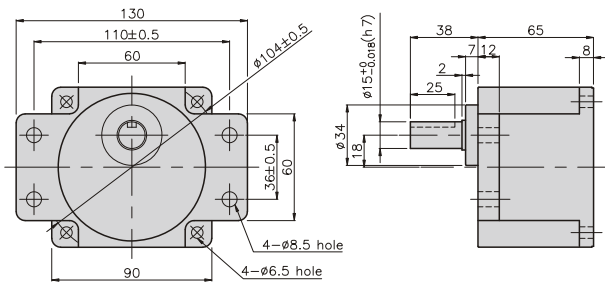
#### GEAR HEAD

K9P□B



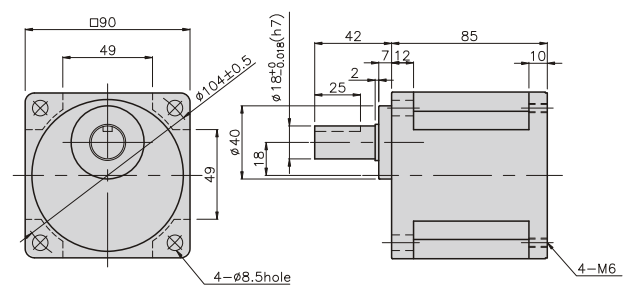
#### GEARHEAD

K9P□BF



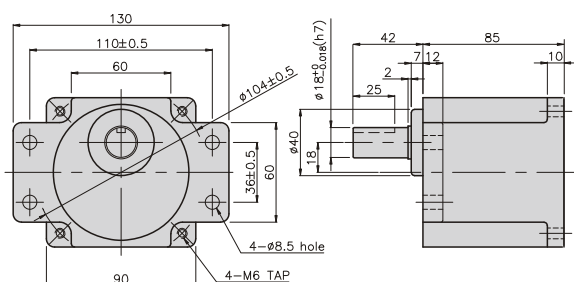
#### GEARHEAD

K9P□BU

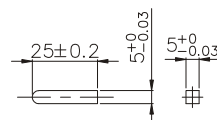


#### GEARHEAD

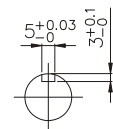
K9P□BUF



#### • KEY



#### • KEY GROOVE



## GEARHEADS

### DIMENSIONS

K9IP120F□ + K9P□B



K9IP120F□ + K9P□BF, BUF



K9IP120F□ + K9P□BU



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,72
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200BF	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

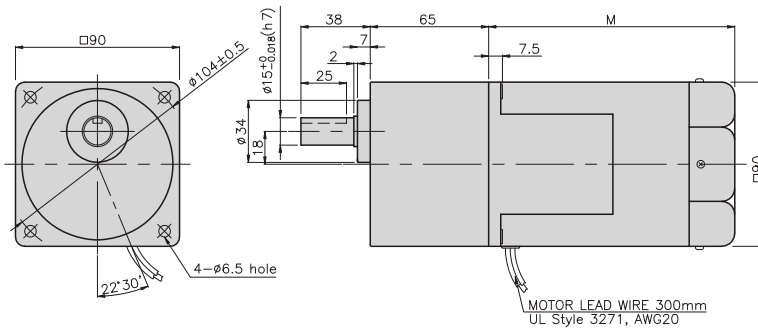
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

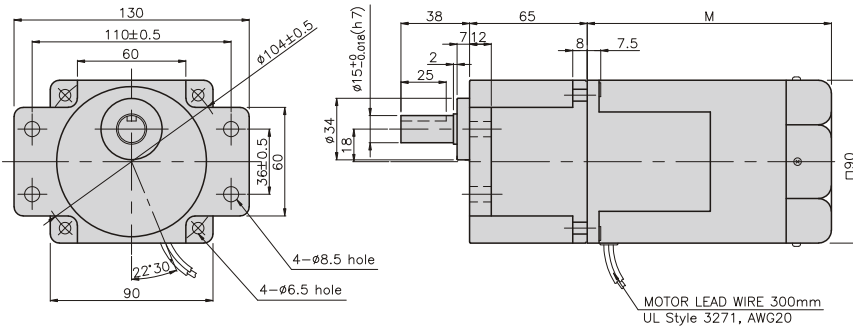
#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

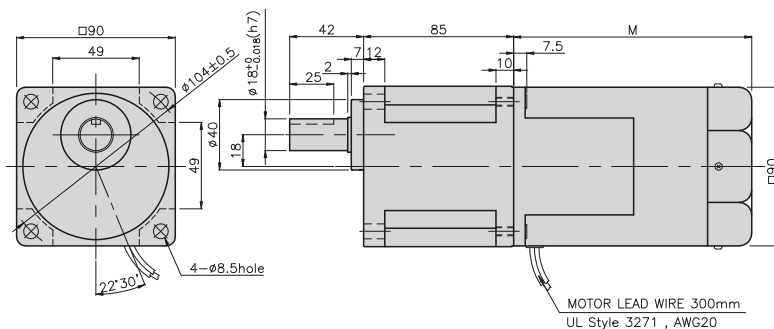
K9IP120F□ + K9P□B



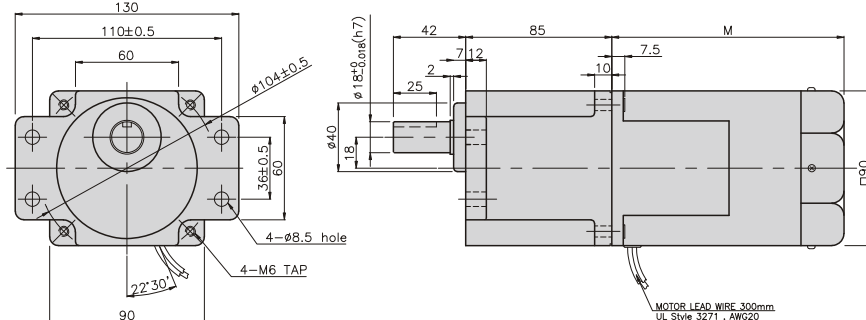
K9IP120F□ + K9P□BF



K9IP120F□ + K9P□BU



K9IP120F□ + K9P□BUF



## GEARHEADS

### DIMENSIONS

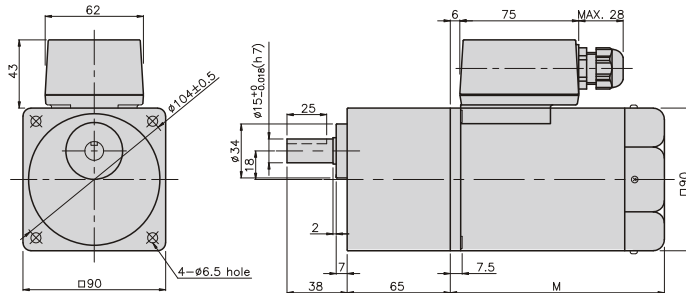
K9IP120F□-T + K9P□B

K9IP120F□-T + K9P□BF, BUF

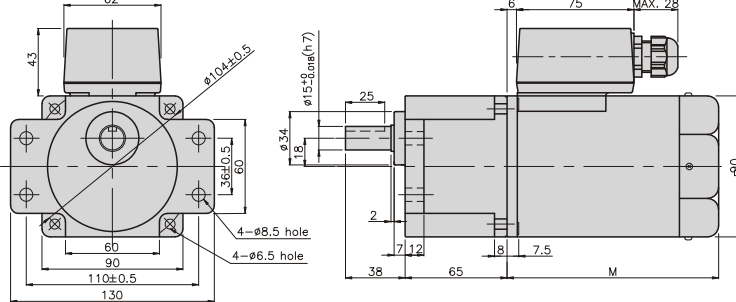
K9IP120F□-T + K9P□BU



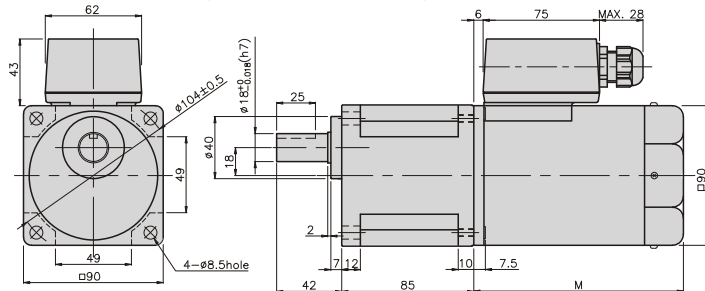
K9IP120F□-T + K9P□B



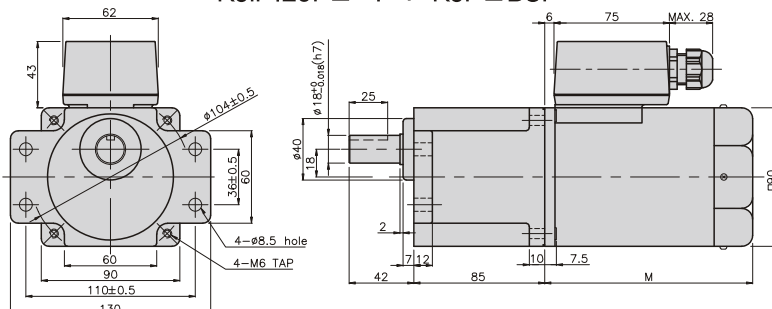
K9IP120F□-T + K9P□BF



K9IP120F□-T + K9P□BU



K9IP120F□-T + K9P□BUF



### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,90(50Hz)
	3,20(60Hz)
DECIMAL GEAR HEAD	0,62

### DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200BF	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 65

### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

## GEARHEADS

### DIMENSIONS

K9IP120F□-T5 + K9P□B



K9IP120F□-T5 + K9P□BF, BUF



K9IP120F□-T5 + K9P□BU



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,90(50Hz)
	3,20(60Hz)
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1.0 X 95
02	40	K9P10BX	M6 P1.0 X 140

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	65	K9P3~200BF	M6 P1.0 X 25
02	40	K9P10BX	M6 P1.0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1.0 X 20
02	40	K9P10BX	M6 P1.0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

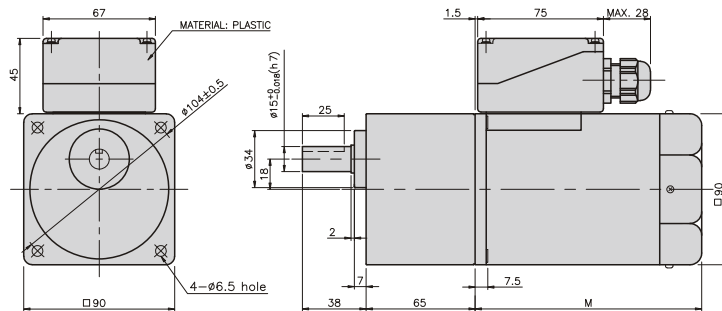
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1.0 X 20
02	40	K9P10BX	M6 P1.0 X 65

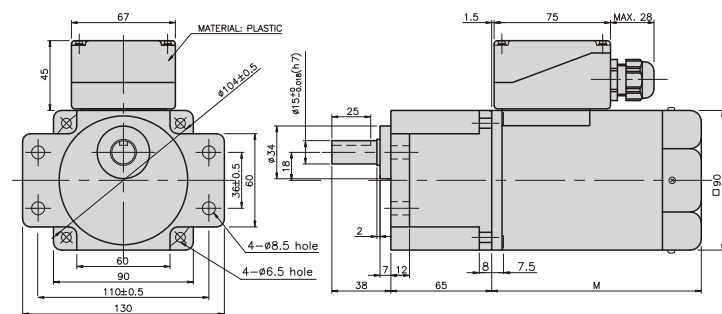
#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

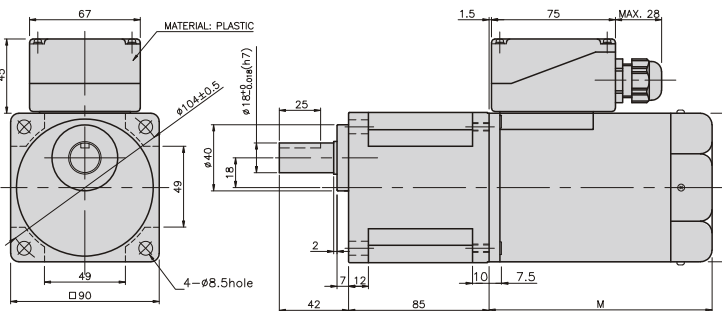
K9IP120F□-T5 + K9P□B



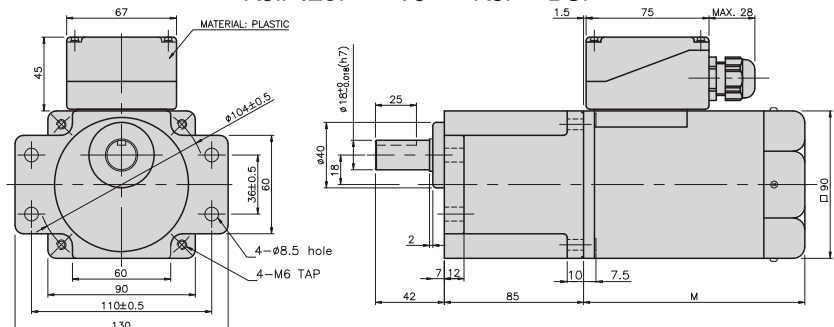
K9IP120F□-T5 + K9P□BF



K9IP120F□-T5 + K9P□BU



K9IP120F□-T5 + K9P□BUF



## INDUCTION MOTOR

### 150W

### □90mm

### LEAD WIRE TYPE TERMINAL BOX TYPE

K9IS150FH



K9IS150F□-T, T5



### SPECIFICATIONS

150W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N* m/Kgf* Cm)	Rated T. (N* m/Kgf* Cm)	Speed (rpm)	Condenser (μF)
K9I□150FT(-T, -T5)		three-phase	200	50	1,2	3,5/35	1,13/11,3	1300
	60			0,95	2,65/26,5	0,915/9,15	1600	
K9I□150FH(-T, -T5)	220		50	0,99	2,95/29,5	1,13/11,3	1300	-
	230			1,1	3/30			
	220		60	0,97	2,5/25	0,915/9,15	1600	-
	230			1,02	2,7/27			
K9I□150FM(-T, -T5)	380		50	0,57	3/30	1,13/11,3	1300	-
			60		2,25/22,5	0,915/9,15	1600	
K9I□150FV(-T, -T5)	400		50	0,6	3,5/35	1,13/11,3	1300	-
			60		2,5/25	0,915/9,15	1600	
K9I□150FQ(-T, -T5)	415		50	0,57	3,15/31,5	1,13/11,3	1300	-
			60	0,42	2,35/23,5	0,915/9,15	1600	
K9I□150FZ(-T, -T5)	440	50	0,53	3,3/33	1,085/10,85	1350	-	
		60	0,44	2,6/26	0,915/9,15	1600		

\* □ : SHAFT SHAPE (S : STRAIGHT, P : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	13	10	8,3	7,5
	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
K9I□150F□(-T, -T5) K9P□B, BF		2,64	3,16	4,39	5,27	6,59	7,91	8,79	9,89	11,86	14,24	15,82	17,80	20	20	20	20	20	20	20	20	20	20	20	20
		26,4	31,6	43,9	52,7	65,9	79,1	87,9	98,9	118,6	142,4	158,2	178,0	200	200	200	200	200	200	200	200	200	200	200	200

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□150F□(-T, -T5) K9P□B, BF		2,22	2,67	3,71	4,45	5,56	6,67	7,41	8,34	10,01	12,01	13,34	15,01	18,01	20	20	20	20	20	20	20	20	20	20	20
		22,2	26,7	37,1	44,5	55,6	66,7	74,1	83,4	100,1	120,1	133,4	150,1	180,1	200	200	200	200	200	200	200	200	200	200	200

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

\* ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 20N · m/200kgfcm.

\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than

indicating rpm according to load size.

## GEARHEADS

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	13	10	8,3	7,5
	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
K9I□150F□(-T, -T5) K9P□BU, BUF		2,64	3,16	4,39	5,27	6,59	7,91	8,79	9,89	11,86	14,24	15,82	17,80	21,36	25,63	28,47	30	30	30	30	30	30	30	30	30
		26,4	31,6	43,9	52,7	65,9	79,1	87,9	98,9	118,6	142,4	158,2	178,0	213,6	256,3	284,7	300	300	300	300	300	300	300	300	300

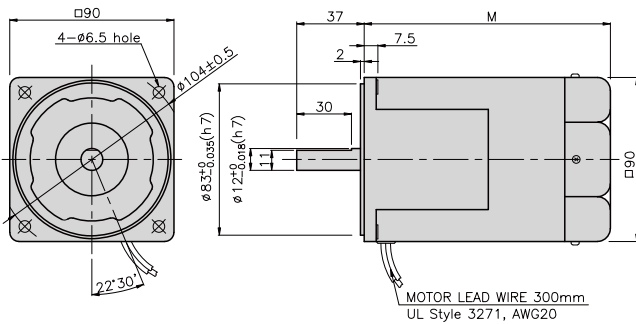
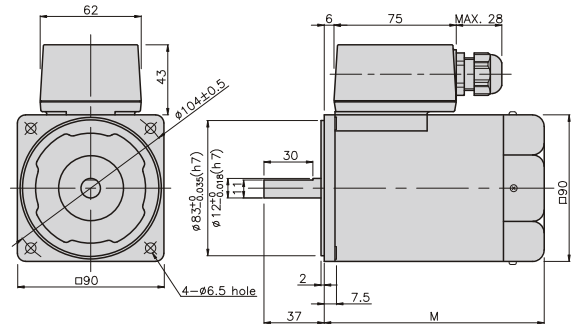
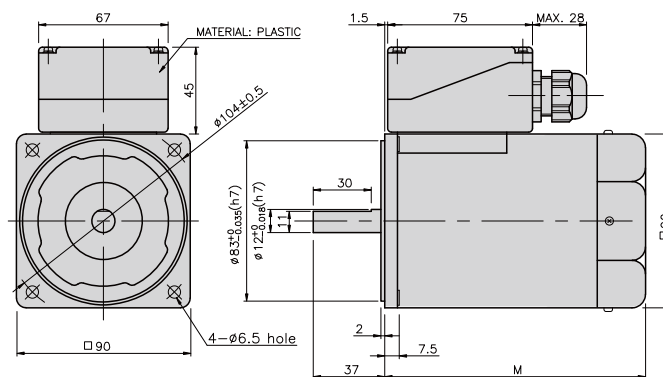
#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□150F□(-T, -T5) K9P□BU, BUF		2,22	2,67	3,71	4,45	5,56	6,67	7,41	8,34	10,01	12,01	13,34	15,01	18,01	21,61	24,01	30	30	30	30	30	30	30	30	30
		22,2	26,7	37,1	44,5	55,6	66,7	74,1	83,4	100,1	120,1	133,4	150,1	180,1	216,1	240,1	300	300	300	300	300	300	300	300	300

- \* Gearhead and decimal gearhead are sold separately.
- \* The code in □ of gearhead model is for gear ratio.
- \*  color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.
- \* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 30N · m/300kgfcm.
- \* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

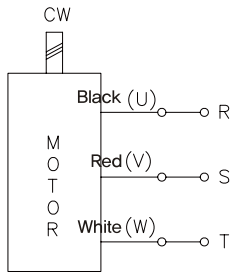
### DIMENSIONS

**K9IS150FH**

**K9IS150F□-T**

**K9IS150F□-T5**


## GEARHEADS

### CONNECTION DIAGRAMS

K9IS150F□



connecting two leadwires of U,V,W in turns  
The direction of motor rotation is as viewed from the front shaft end of the motor

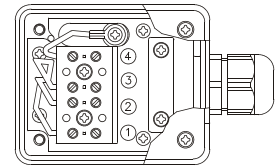
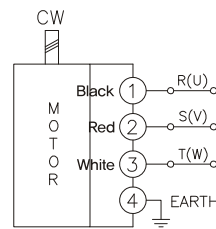
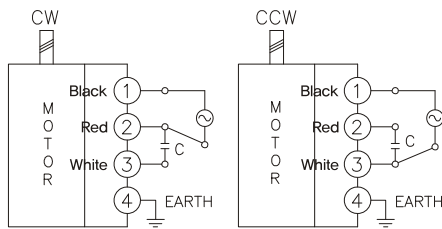
DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

K9IS150F□-T

single phase motor

three phase motor

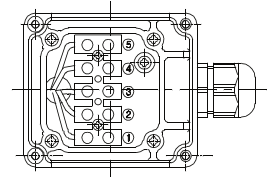
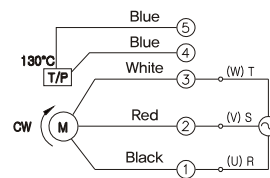
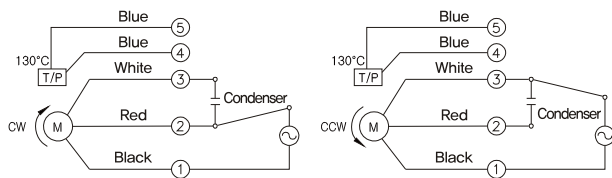


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS150F□-T5

single phase motor

three phase motor



connecting two leadwires of U,V,W in turns  
The direction of motor rotation is as viewed from the front shaft end of the motor



## GEARHEADS

### DIMENSIONS

K9P□B



K9P□BF, BUF

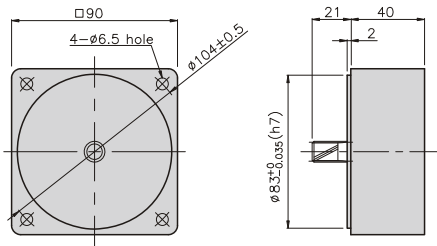


K9P□BU



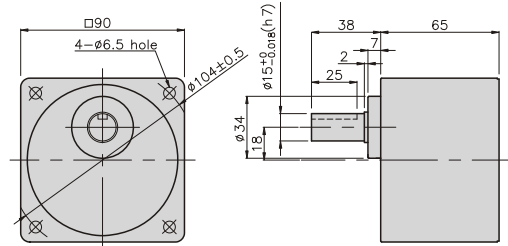
DECIMAL GEARHEAD

K9P10BX



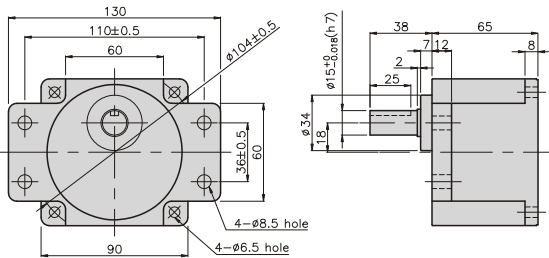
GEAR HEAD

K9P□B



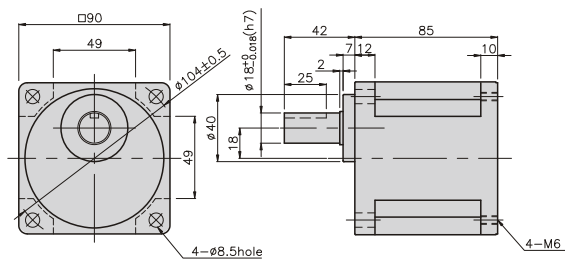
GEARHEAD

K9P□BF



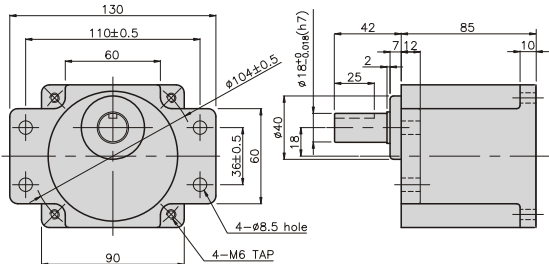
GEARHEAD

K9P□BU

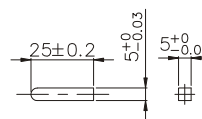


GEARHEAD

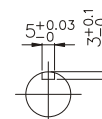
K9P□BUF



• KEY



• KEY GROOVE



## GEARHEADS

### DIMENSIONS

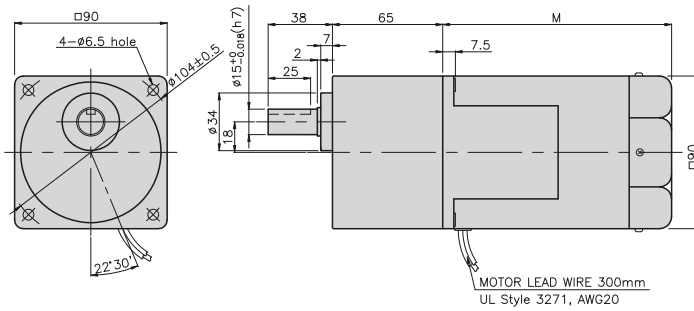
K9IP150F□ + K9P□B

K9IP150F□ + K9P□BF, BUF

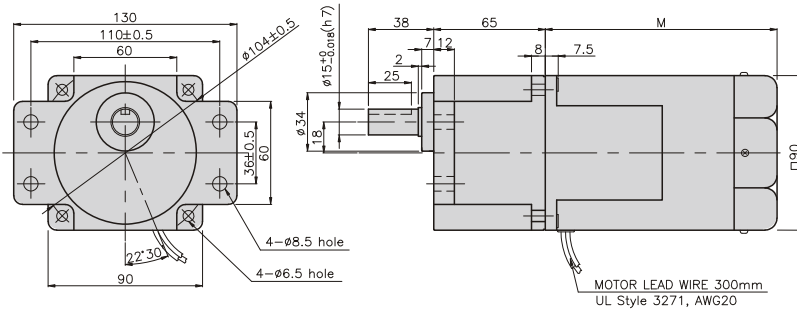
K9IP150F□ + K9P□BU



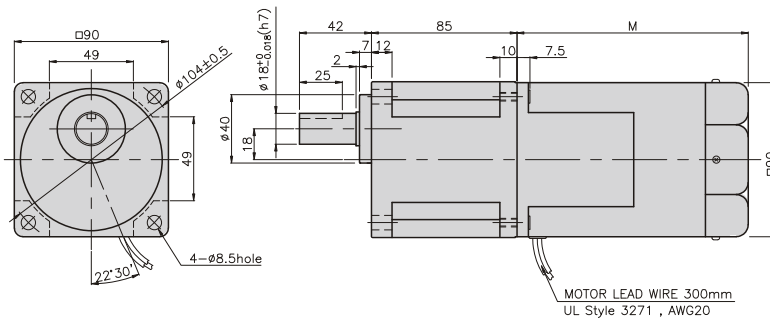
#### K9IP150F□ + K9P□B



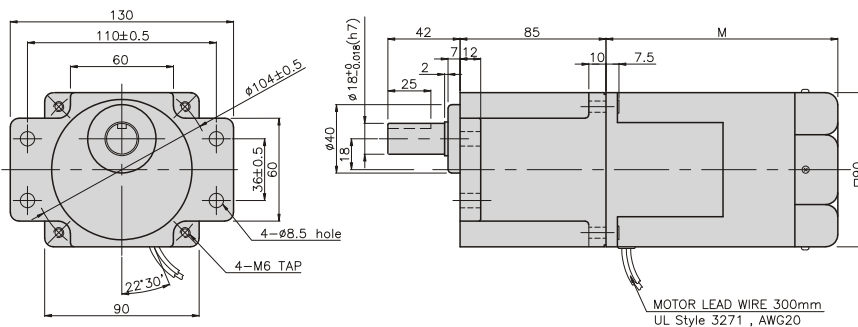
#### K9IP150F□ + K9P□BF



#### K9IP150F□ + K9P□BU



#### K9IP150F□ + K9P□BUF



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,82
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M4 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BF	M6 P1,0 X 95
02	40	K9P10BX	M4 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

## GEARHEADS

### DIMENSIONS

K9IP150F□-T + K9P□B



K9IP150F□-T + K9P□BF, BUF



K9IP150F□-T + K9P□BU



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,24(3,90)
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200B	M6 P1,0 X 95
02	40	K9P10BX	M6 P1,0 X 140

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1,22
K9P12,5~20B	1,32
K9P25~60B	1,42
K9P75~200B	1,45

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BF	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12,5~20BF	1,30
K9P25~60BF	1,42
K9P75~200BF	1,44

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

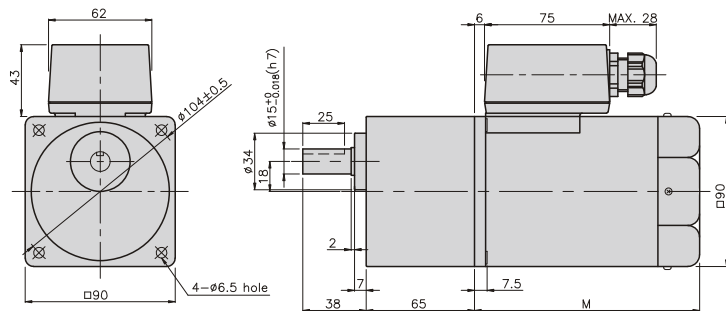
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

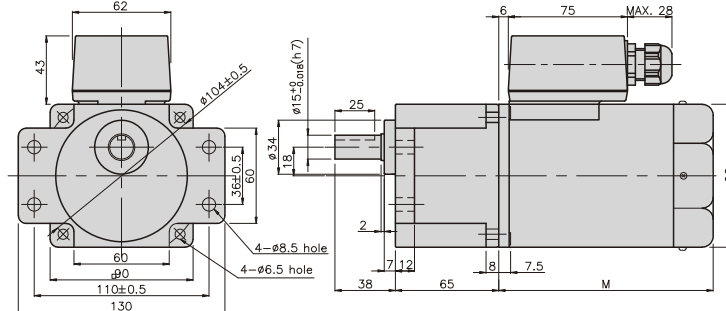
#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

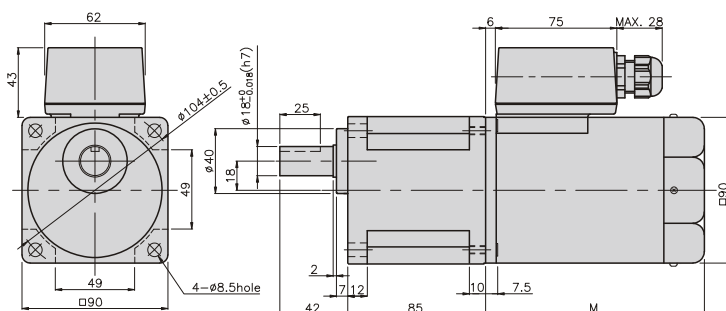
K9IP150F□-T + K9P□B



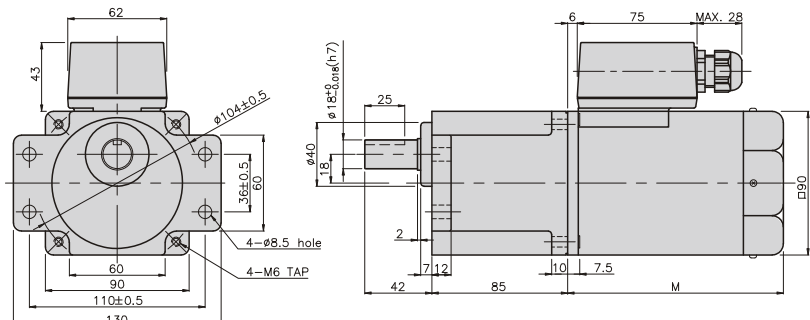
K9IP150F□-T + K9P□BF



K9IP150F□-T + K9P□BU



K9IP150F□-T + K9P□BUF



## GEARHEADS

### DIMENSIONS

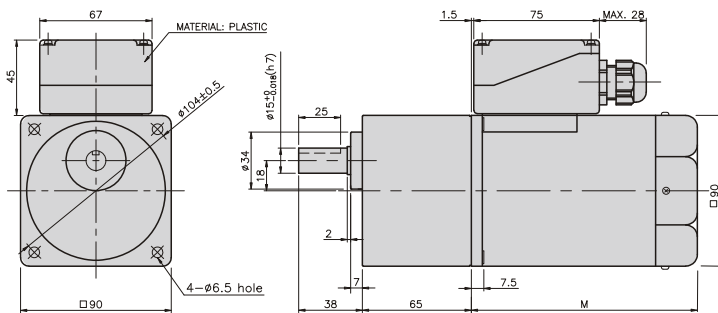
K9IP150F□-T5 + KP9□B

K9IP150F□-T5 + K9P□BF, BUF

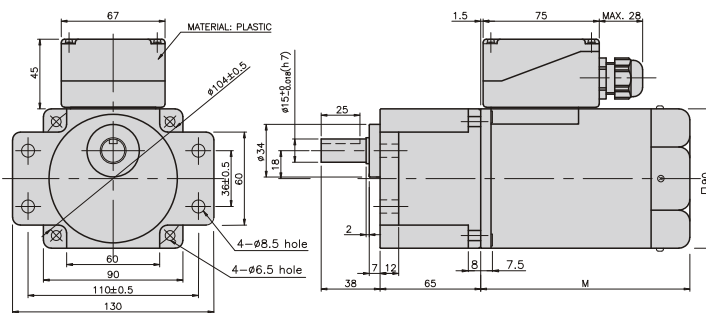
K9IP150F□-T5 + K9P□BU



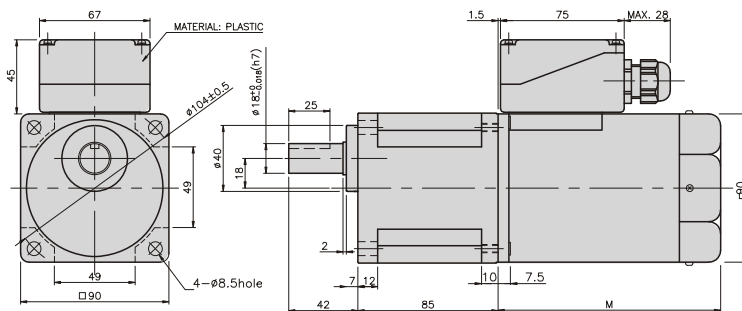
K9IP150F□-T5 + KP9□B



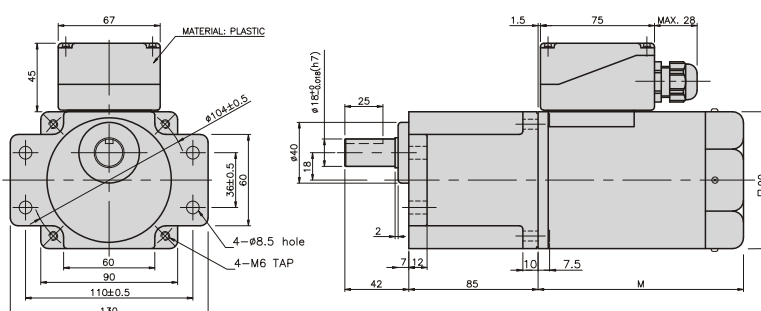
K9IP150F□-T5 + KP9□BF



K9IP150F□-T5 + KP9□BU



K9IP150F□-T5 + KP9□BUF



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3.24(3.90)
DECIMAL GEAR HEAD	0.62

#### DIMENSION TABLE

PART No	M	Application Model
01	155	50Hz
02	135	60Hz

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200B	M6 P1.0 X 95
02	40	K9P10BX	M6 P1.0 X 140

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10B	1.22
K9P12.5~20B	1.32
K9P25~60B	1.42
K9P75~200B	1.45

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BF	M6 P1.0 X 25
02	40	K9P10BX	M6 P1.0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1.22
K9P12.5~20BF	1.30
K9P25~60BF	1.42
K9P75~200BF	1.44

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1.0 X 20
02	40	K9P10BX	M6 P1.0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1.44
K9P12.5~20BU	1.55
K9P25~60BU	1.69
K9P75~200BU	1.74

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1.0 X 20
02	40	K9P10BX	M6 P1.0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1.50
K9P12.5~20BUF	1.62
K9P25~60BUF	1.76
K9P75~200BUF	1.82

## INDUCTION MOTOR

### 180W

### □90mm

LEAD WIRE TYPE  
TERMINAL BOX TYPE

K9IS180F□



K9IS180F□-T, T5



### SPECIFICATIONS

180W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/Kgf*cm)	Rated T. (N*m/Kgf*cm)	Speed (rpm)	Condenser (μF)
K9I□180FJ(-T, -T5)	100	50	3,43	0,9/9	1,35/13,5	1300	50
		60	3,7	1/10	1,1/11	1600	
K9I□180FU(-T, -T5)	110	60	2,85	0,8/8	1,1/11	1600	35
	115		3,06				
K9I□180FL(-T, -T5)	200	50	1,47	0,73/7,3	1,35/13,5	1300	12
		60	1,43	0,65/6,5	1,1/11	1600	
K9I□180FC(-T, -T5)	220	50	1,58	0,7/7	1,35/13,5	1300	8
		60	1,38	0,65/6,5	1,1/11	1600	
	230	50	1,7	0,75/7,5	1,35/13,5	1300	
		60	1,54	0,7/7	1,1/11	1600	
K9I□180FD(-T, -T5)	240	50	1,2	0,8/8	1,35/13,5	1300	8

\* □ : SHAFT SHAPE (S : STRAIGHT, P : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N·m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□180F□(-T, -T5)		3,28	3,94	5,47	6,56	8,20	9,84	10,94	12,30	14,76	17,71	19,68	22,14	26,57	30	30	30	30	30	30	30	30	30	30	30
K9P□BU, BUF		32,8	39,4	54,7	65,6	82,0	98,4	109,4	123,0	147,6	177,1	196,8	221,4	265,7	300	300	300	300	300	300	300	300	300	300	300

#### ● 60Hz

unit = above : N·m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□180F□(-T, -T5)		2,67	3,21	4,46	5,35	6,68	8,02	8,91	10,02	12,03	14,43	16,04	18,04	21,65	25,98	28,87	30	30	30	30	30	30	30	30	30
K9P□BU, BUF		26,7	32,1	44,6	53,5	66,8	80,2	89,1	100,2	120,3	144,3	160,4	180,4	216,5	259,8	288,7	300	300	300	300	300	300	300	300	300

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

\* ■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

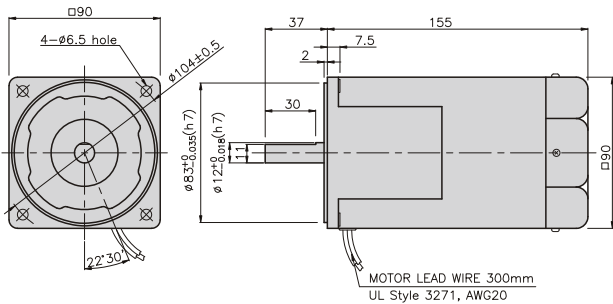
\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 30N·m/300kgfcm.

\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

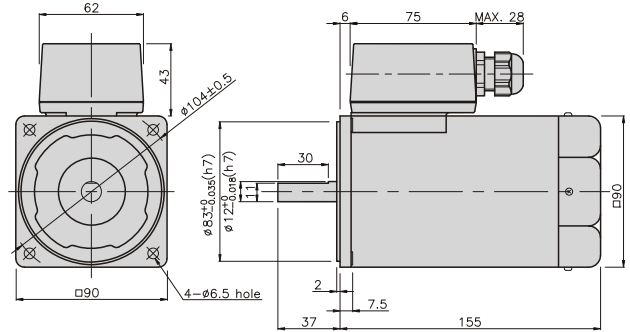
## GEARHEADS

### DIMENSIONS

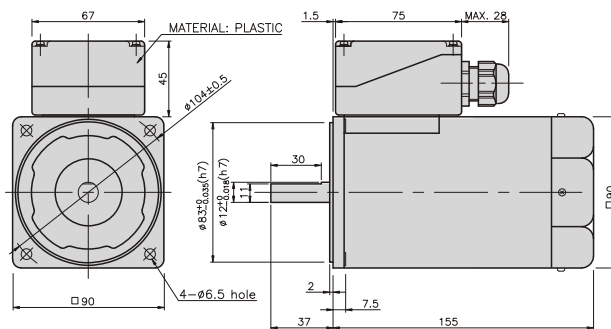
K9IS180F□



K9IS180F□-T

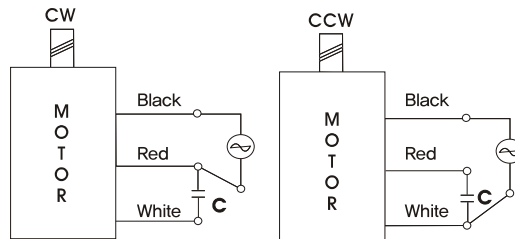


K9IS180F□-T5



### CONNECTION DIAGRAMS

K9IS180F□

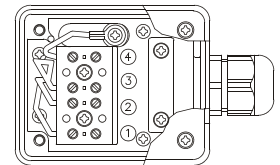
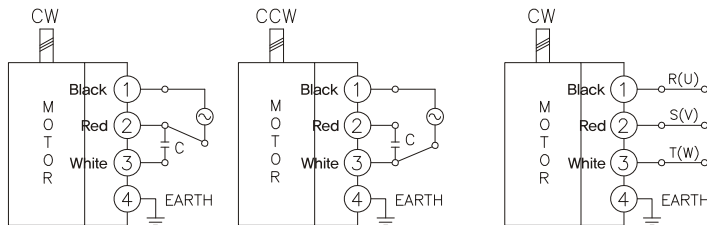


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS180F□-T

single phase motor

three phase motor

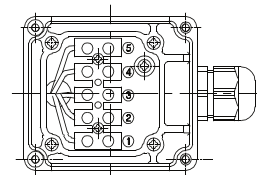
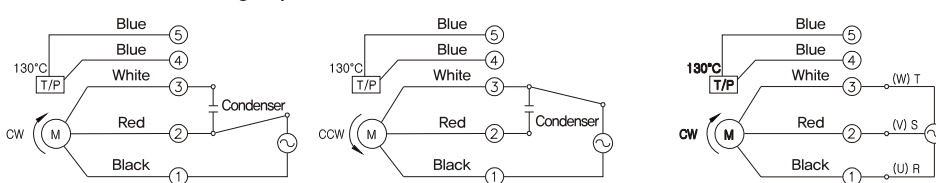


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS180F□-T5

single phase motor

three phase motor



The direction of motor rotation is as viewed from the front shaft end of the motor connecting two leadwires of U,V,W in turns

## GEARHEADS

### DIMENSIONS

K9P□BU

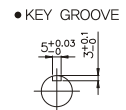
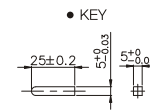
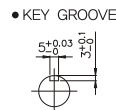
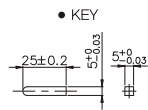
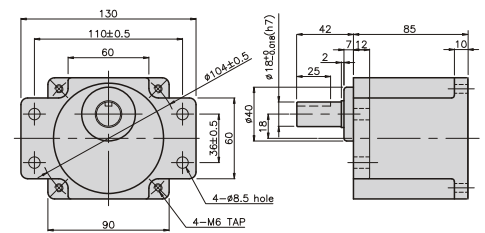
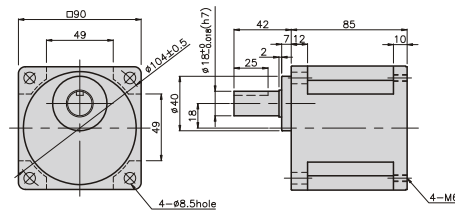
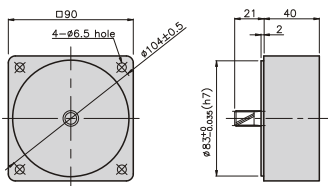
K9P□BUF



DECIMAL GEARHEAD  
K9P10BX

GEARHEAD  
K9P□BU

GEARHEAD  
K9P□BUF







## GEARHEADS

### CONNECTION DIAGRAMS

K9IP180F□-T + K9P□BU



K9IP180F□-T + K9P□BUF



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,90
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

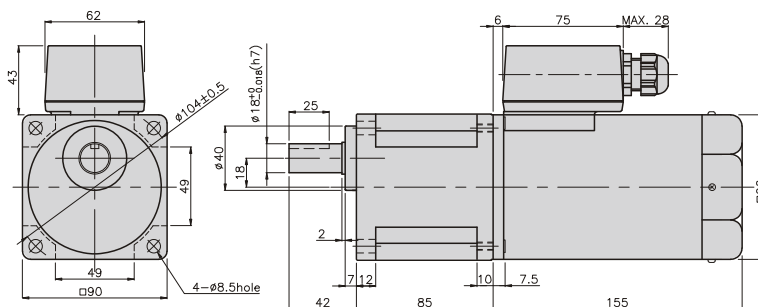
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

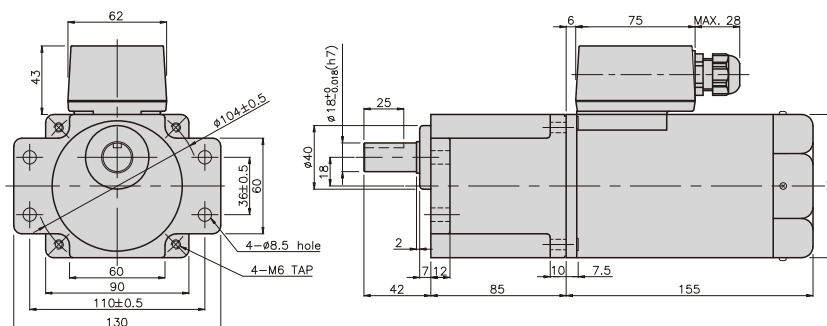
#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

K9IP180F□-T + K9P□BU



K9IP180F□-T + K9P□BUF



## GEARHEADS

### DIMENSIONS

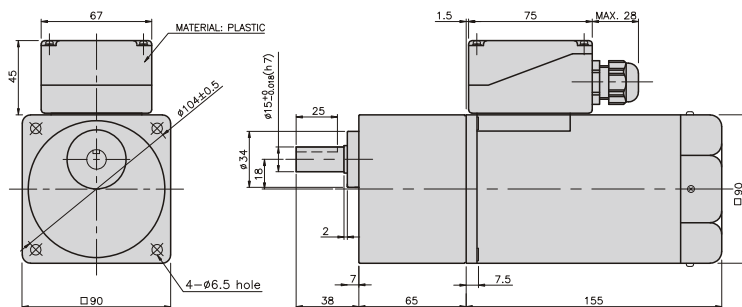
K9IP180F□-T5 + K9P□BU



K9IP180F□-T5 + K9P□BUF



K9IP180F□-T5 + K9P□BU



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,90
DECIMAL GEAR HEAD	0,62

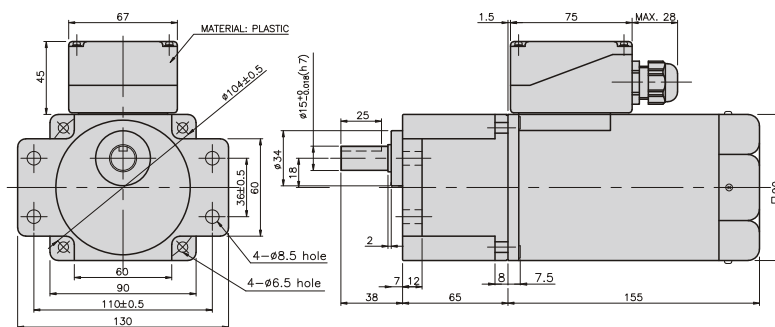
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

K9IP180F□-T5 + K9P□BUF



#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

## INDUCTION MOTOR

### 200W

### □90mm

### LEAD WIRE TYPE TERMINAL BOX TYPE

K9IS200FH



K9IS200F□-T, T5



### SPECIFICATIONS

200W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m / Kgf*cm)	Rated T. (N*m. Kgf*cm)	Speed (rpm)	Condenser (μF)
K9I□200FT(-T, -T5)	200	50	1.62	4/40	1.5/15	1300	-
		60	1.29	3.15/31.5	1.22/12.2	1600	
K9I□200FH(-T, -T5)	220	50	1.36	4.25/42.5	1.45/14.5	1350	-
		60	1.06	3.4/34	1.22/12.2	1600	
	230	50	1.51	4.3/43	1.45/14.5	1350	-
		60	1.15	3.5/35	1.22/12.2	1600	
K9I□200FM(-T, -T5)	380	50	0.81	4.3/43	1.45/14.5	1350	-
		60	0.58	3.6/36	1.22/12.2	1600	
K9I□200FV(-T, -T5)	400	50	0.91	4.5/45	1.45/14.5	1350	-
		60	0.67	4/40	1.22/12.2	1600	
K9I□200FQ(-T, -T5)	415	50	0.62	3.8/38	1.5/15	1300	-
		60	0.58	3/30	1.26/12.6	1550	
K9I□200FZ(-T, -T5)	440	50	0.68	4.1/41	1.5/15	1300	-
		60	0.54	3/30	1.22/12.2	1600	

\* □ : SHAFT SHAPE (S : STRAIGHT, P : PINION)

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	13	10	8,3	7,5
	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
K9I□200F□(-T, -T5) K9P□BU, BUF		3,52	4,23	5,87	7,05	8,81	10,57	11,75	13,21	15,86	19,03	21,14	23,78	28,54	30	30	30	30	30	30	30	30	30	30	30
		35,2	42,3	58,7	70,5	88,1	105,7	117,5	132,1	158,6	190,3	211,4	237,8	285,4	300	300	300	300	300	300	300	300	300	300	300

#### ● 60Hz

unit = above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
	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
K9I□200F□(-T, -T5) K9P□BU, BUF		2,96	3,56	4,94	5,93	7,41	8,89	9,88	11,12	13,34	16,01	17,79	20,01	24,01	28,82	30	30	30	30	30	30	30	30	30	30
		29,6	35,6	49,4	59,3	74,1	88,9	98,8	111,2	133,4	160,1	177,9	200,1	240,1	288,2	300	300	300	300	300	300	300	300	300	300

\* Gearhead and decimal gearhead are sold separately.

\* The code in □ of gearhead model is for gear ratio.

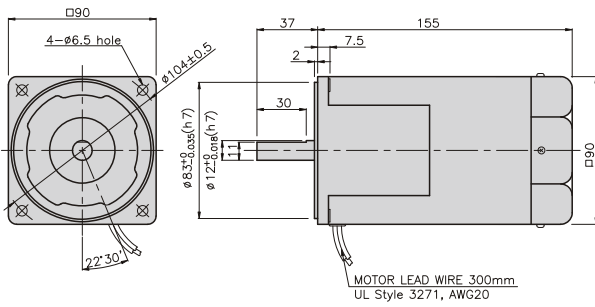
\*  color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.

\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 30N · m/300kgfcm.

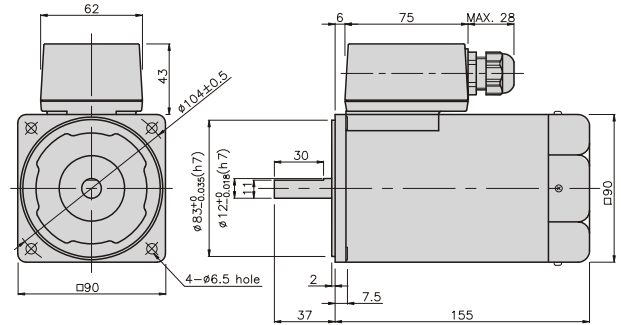
\* RPM is based on motor's synchronous rpm (50HZ:1500rpm, 60HZ:1800rpm) and calculated by dividing gear ratio. Actual rpm is 2~20% less than indicating rpm according to load size.

## GEARHEADS

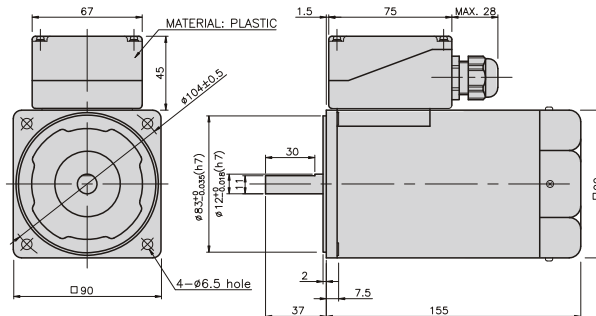
K9IS200FH



K9IS200F□-T

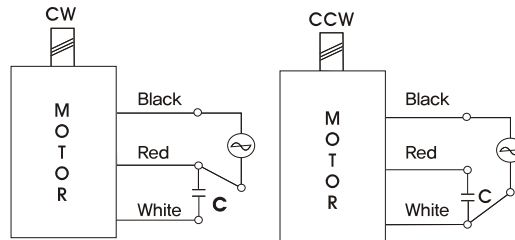


K9IS200F□-T5



## CONNECTION DIAGRAMS

K9IS200F□

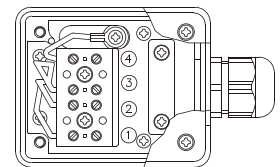
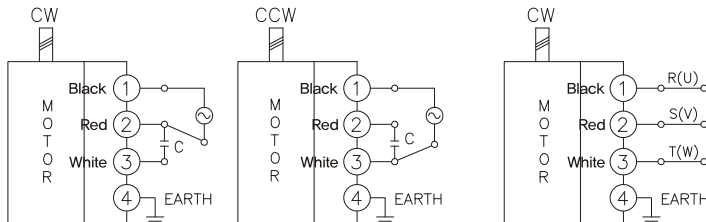


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS200F□-T

single phase motor

three phase motor

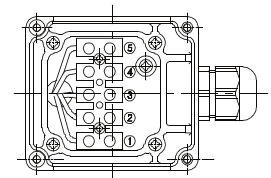
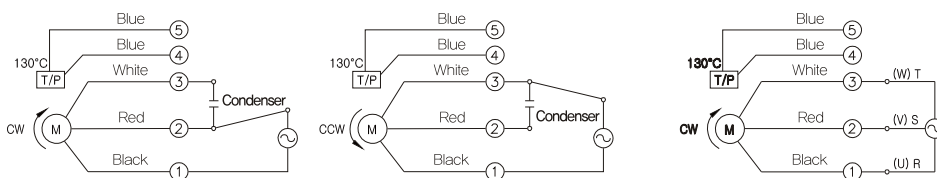


The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS200F□-T5

single phase motor

three phase motor



The direction of motor rotation is as viewed from the front shaft end of the motor connecting two leadwires of U,V,W in turns

## GEARHEADS

### DIMENSIONS

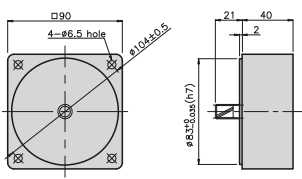
K9P□BU



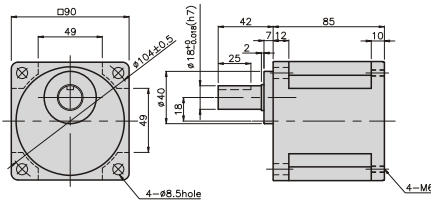
K9P□BUF



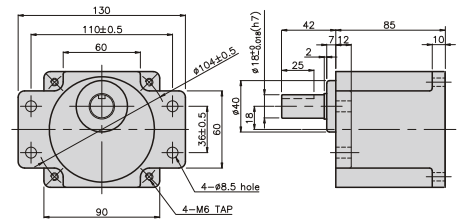
DECIMAL GEARHEAD  
K9P10BX



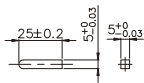
GEARHEAD  
K9P□BU



GEARHEAD  
K9P□BUF



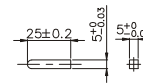
• KEY



• KEY GROOVE



• KEY



• KEY GROOVE



## GEARHEADS

### DIMENSIONS

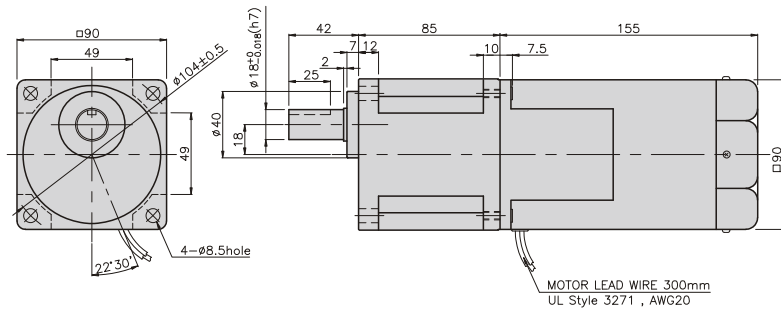
K9IP200F□ + K9P□BU



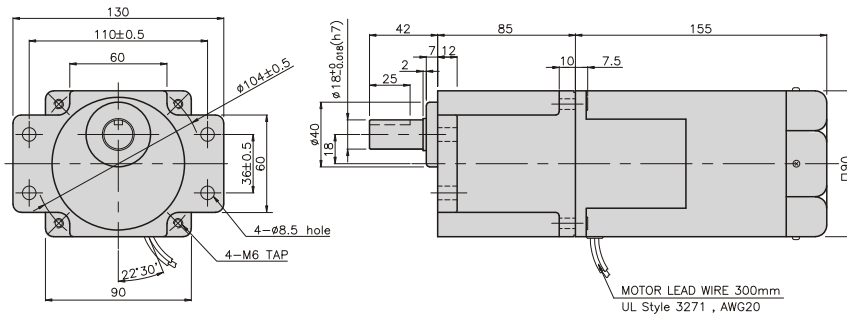
K9IP200F□ + K9P□BUF



K9IP200F□ + K9P□BU



K9IP200F□ + K9P□BUF



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,82
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

## GEARHEADS

### DIMENSIONS

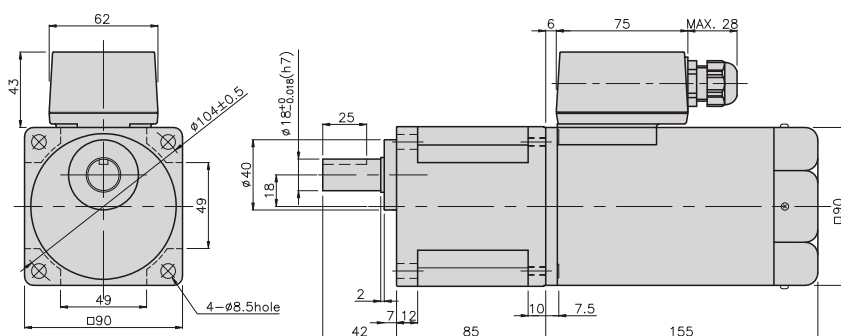
K9IP200F□-T + K9P□BU



K9IP200F□-T + K9P□BUF



K9IP200F□-T + K9P□BU



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	4,00
DECIMAL GEAR HEAD	0,62

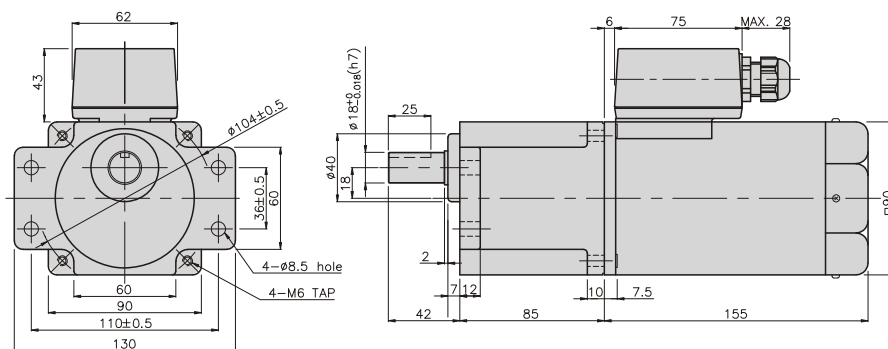
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 60

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

K9IP200F□-T + K9P□BUF



#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

## GEARHEADS

### DIMENSIONS

K9IP200F□-T5 + K9P□BU



K9IP200F□-T5 + K9P□BUF



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	4,00
DECIMAL GEAR HEAD	0,62

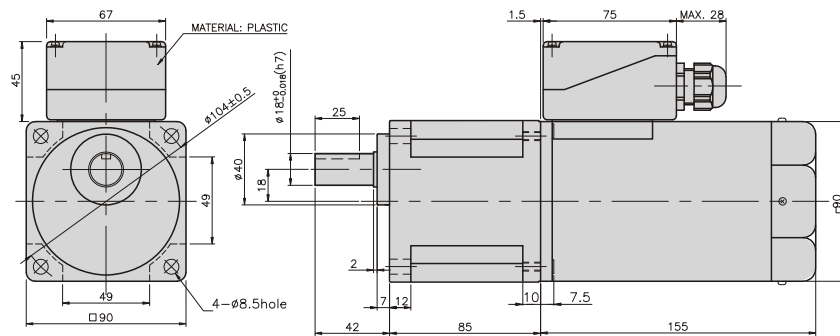
#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BU	M6 P1,0 X 20
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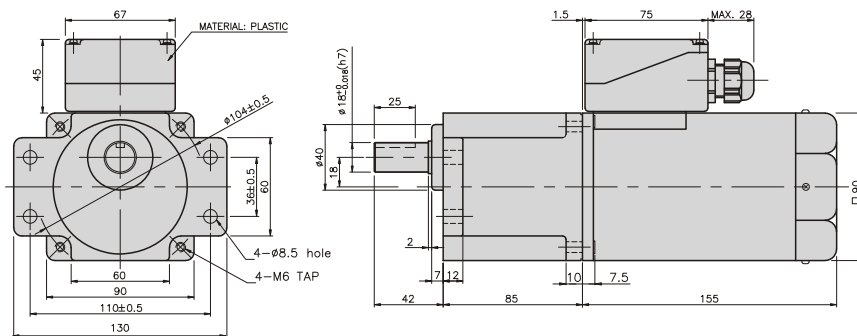
#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BU	1,44
K9P12,5~20BU	1,55
K9P25~60BU	1,69
K9P75~200BU	1,74

K9IP200F□-T5 + K9P□BU



K9IP200F□-T5 + K9P□BUF



#### DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
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K9P25~60BUF	1,76
K9P75~200BUF	1,82