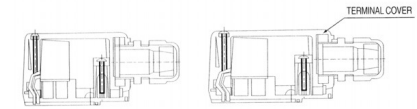




## [Characteristic of Terminal Box Type Motor]

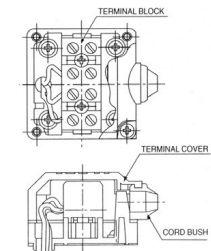


(SINGLE-PHASE REVERSIBLE MOTOR) (SINGLE-PHASE INDUCTION MOTOR)  
(THREE-PHASE INDUCTION MOTOR)

2) □60 6W ~□70 15W

### 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.



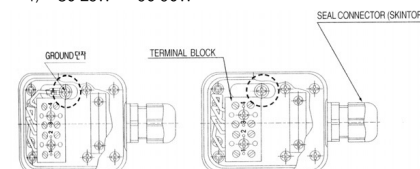
### 3. GENERAL SPECIFICATION OF MOTORS

Item	Specification
Insulation Resistance	100MΩ 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	60°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	Class E (120°C), UL approval motor class A (105°C)
Ambient Temperature	-10°C ~ 50°C
Ambient Humidity	85% maximum (non condensing)

### 2. Diagram of Terminal Box Structure

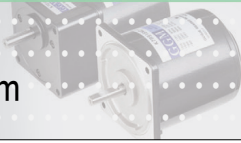
#### Terminal Block Box Type (T Type)

1) □80 25W~□90 90W



INDUCTION MOTORS

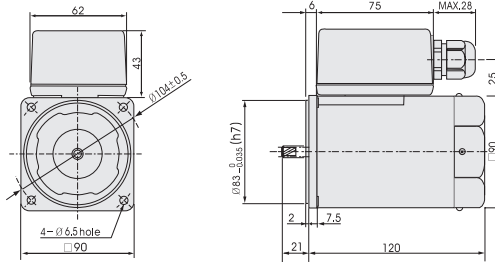
60W □90mm



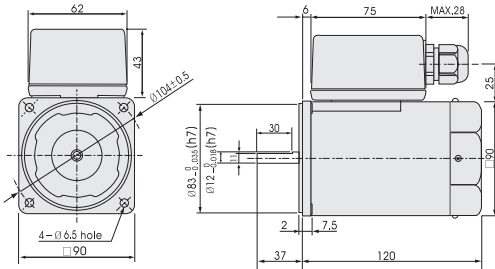
TERMINAL BOX TYPE

DIMENSIONS

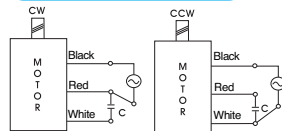
K9IP60F□-T



K9IS60F□-T



CONNECTION DIAGRAMS



SPECIFICATIONS

continuous rating, four poles

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

Model	Output (W)	Voltage (V)	Frequency (Hz)	Current (A)	Starting Torque (mN·m) (gfcm)	Rated Torque (mN·m) (gfcm)	Speed (rpm)	Condenser (μF)
K9IP60FU-T K9IS60FU-T	60	110	60	1.30	350	400	1550	16
		115			3500	4000		
K9IP60FC-T K9IS60FC-T	60	220	60	0.60	350	400	1550	4
		230	50	0.62	390	470	1250	
			60	0.62	350	400	1550	
K9IP60FH-T K9IS60FH-T	60	220	60	0.48	1450	370	1600	-
		230	50	0.60	1150	460	1350	
			60	0.49	1450	370	1600	

GEARHEADS

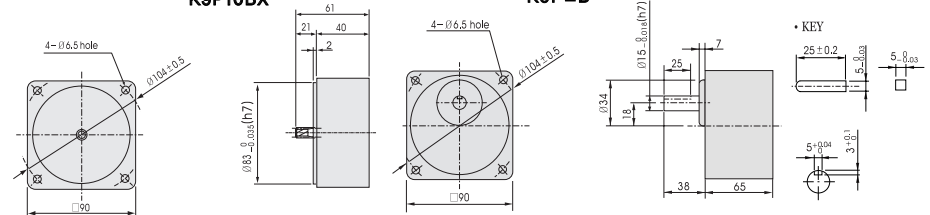
DIMENSIONS

DECIMAL GEARHEAD

GEARHEAD

K9P10BX

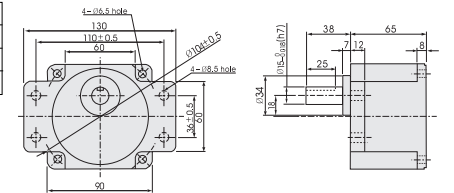
K9P□B



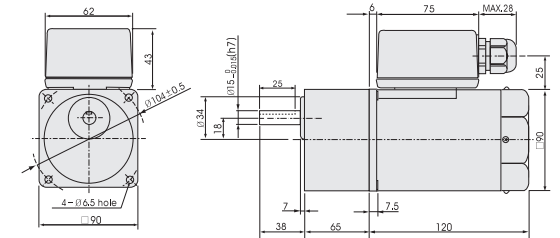
DIMENSION TABLE

PART No.	L	APPLICATION MODEL	MOUNTING BOLT
01	65	K9P3~180B	M6 P1.0×95
02	65	K9P3~180BF	M6 P1.0×25
03	40	K9P10BX	M6 P1.0×140

K9P□BF



K9IP60F□-T + K9P□B



RATED TORQUE OF GEARHEAD

● 50Hz

unit: above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm) Ratio	500	416	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	125	10	8.3
		Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150
K9IP60F□-T	1.14	1.37	1.9	2.28	2.86	3.43	4.28	5.14	6.17	7.71	9.25	11.10	15.42	18.50	20	20	20	20	20	20	
K9P□B, K9P□BF	11.4	13.7	19.0	22.8	28.6	34.3	42.8	51.4	61.7	77.1	92.5	111.0	154.2	185.0	200	200	200	200	200	200	
K9IP60FH-T	1.12	1.34	1.86	2.24	2.79	3.35	4.19	5.03	6.04	7.55	9.05	10.87	15.09	18.11	20	20	20	20	20	20	
K9P□B, K9P□BF	11.2	13.4	18.6	22.4	27.9	33.5	41.9	50.3	60.4	75.5	90.5	108.7	150.9	181.1	200	200	200	200	200	200	

● 60Hz

unit: above : N · m / below : kgfcm

Model Motor/ Gearhead	Speed(rpm) Ratio	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
		Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150
K9IP60F□-T	0.97	1.17	1.62	1.94	2.43	2.92	3.65	4.37	5.25	6.56	7.87	9.45	13.12	15.75	17.71	20	20	20	20	20	
K9P□B, K9P□BF	9.7	11.7	16.2	19.4	24.3	29.2	36.5	43.7	52.5	65.6	78.7	94.5	131.2	157.5	177.1	200	200	200	200	200	
K9IP60FH-T	0.90	1.08	1.50	1.80	2.25	2.70	3.37	4.05	4.86	6.07	7.28	8.74	12.14	14.57	16.39	19.66	20	20	20	20	
K9P□B, K9P□BF	9.0	10.8	15.0	18.0	22.5	27.0	33.7	40.5	48.6	60.7	72.8	87.4	121.4	145.7	163.9	196.6	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.