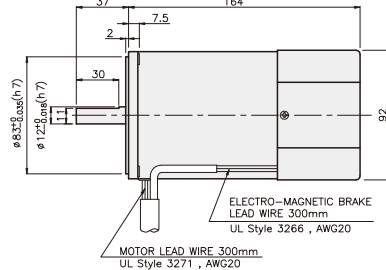
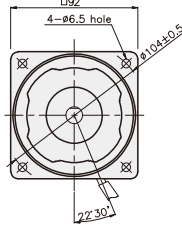


## BRAKE MOTOR

**60W** □90mm

K9□P60F□-B



### SPECIFICATIONS

60W single-phase : 30 minutes rating, three-phase : continuous rating, four poles

Model	Duty	Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/ Kgf*cm)	Rated T. (N*m/ Kgf*cm)	Speed (rpm)	Condenser (μF)	Friction T. (N*m/ Kgf*cm)
K9R□60FJ-B K9R□60FU-B K9R□60FL-B K9R□60FC-B K9R□60FD-B	single-phase 30 minutes	100	50	1.48	0.48/4.8	0.47/4.7	1250	25	1/10
			60	1.66		0.38/3.8	1550		
		110	60	1.25	0.4/4	0.38/3.8	1550	17	1/10
				1.31	0.425/4.25				
		200	50	0.72	0.5/5	0.47/4.7	1250	6	1/10
				0.76	0.44/4.4	0.39/3.9	1500		
220	50	0.69	0.45/4.5	0.47/4.7	1250	5	1/10		
		0.76	0.48/4.8	0.38/3.8	1550				
230	50	0.77	0.5/5	0.47/4.7	1250	5	1/10		
		0.79	0.38/3.8	1550					
240	50	0.75	0.5/5	0.47/4.7	1250	5	1/10		
K9I□60FT-B K9I□60FH-B K9I□60FM-B K9I□60FV-B K9I□60FQ-B K9I□60FZ-B	three-phase continuous	200	50	0.49	1.35/13.5	0.45/4.5	1300	-	1/10
			60	0.45	1.05/10.5	0.38/3.8	1550		
		220	50	0.55	1.6/16	0.435/4.35	1350	-	1/10
			60	0.47	1.2/12	0.37/3.7	1600		
		230	50	0.6	1.65/16.5	0.435/4.35	1350	-	1/10
			60	0.52	1.3/13	0.37/3.7	1600		
		380	50	0.34	1.55/15.5	0.435/4.35	1350	-	1/10
			60	0.25	1.19/11.9	0.37/3.7	1600		
		400	50	0.37	1.85/18.5	0.435/4.35	1350	-	1/10
			60	0.28	1.42/14.2	0.37/3.7	1600		
		415	50	0.26	1.45/14.5	0.45/4.5	1300	-	1/10
			60	0.21	1.15/11.5	0.37/3.7	1600		
440	50	0.28	1.6/16	0.45/4.5	1300	-	1/10		
	60	0.23	1.25/12.5	0.37/3.7	1600				

\* □ : SHAFT SHAPE ( S : STRAIGHT, P : PINION) \* 3 phase motor for over 380 voltage can't be used with inverter. Motor winding insulation can be damaged.

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N·m / below : Kgf·cm

Model	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
Motor/ Gearhead	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
K9□60F□-B		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
K9P□B, BF		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 : Kgf·cm

Model	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
Motor/ Gearhead	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
K9□60F□-B		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	19.66	20	20	20	20	20
K9P□B, BF		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	196.6	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.

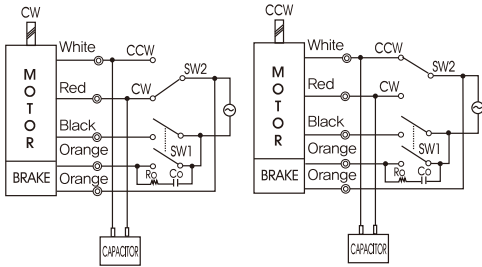
\* If you are to have less ratio than the ratio in the table, you can install the decimal gearhead, which has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 20N·m/200kgf·cm.

\* 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.

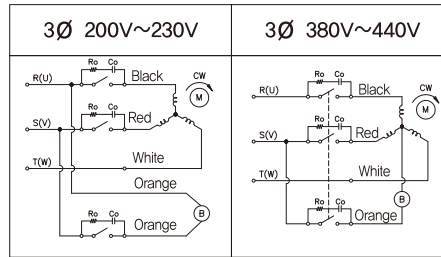
## GEARHEADS

### CONNECTION DIAGRAMS

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

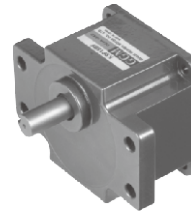
Connect Cr circuit for absorbing surge voltage as connection diagram to protect contact point.  
 $R_o = 5 - 200\Omega$   
 $C_o = 0.1 \sim 0.2\mu F$  200WV(400WV)

### DIMENSIONS

K9P□B

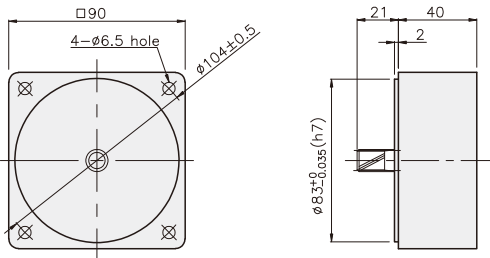


K9P□BF

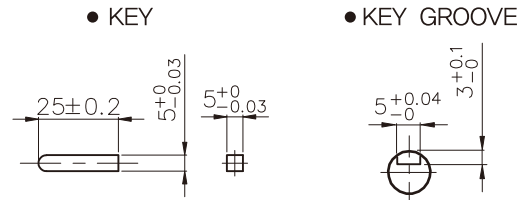


### DECIMAL GEARHEAD

K9P10BX

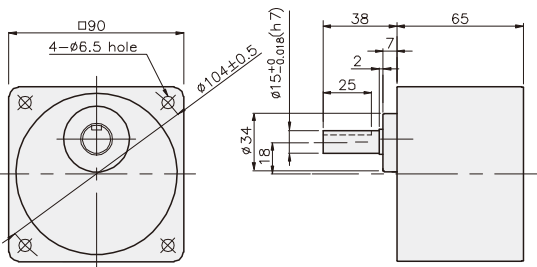


### KEY SPEC

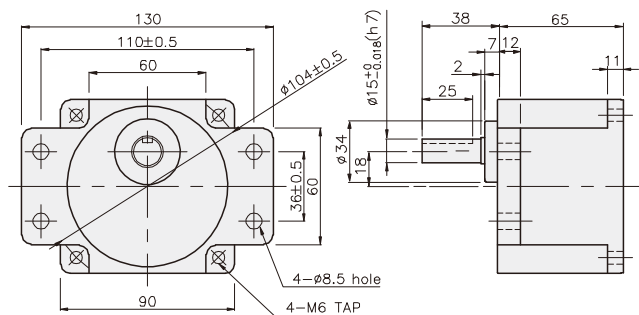


### GEARHEAD

K9P□B



K9P□BF



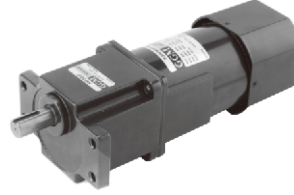
## GEARHEADS

### DIMENSIONS

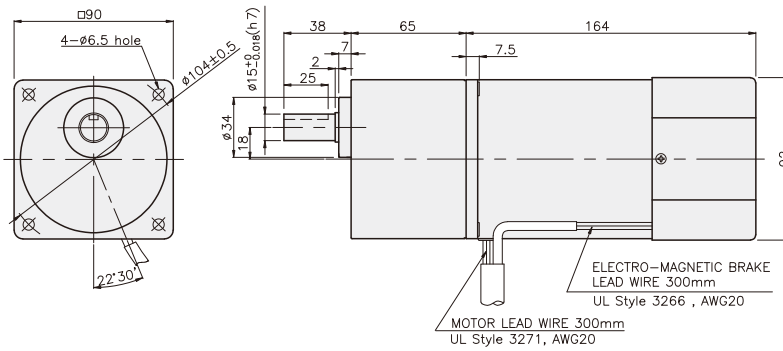
K9□P60F□-B + K9P□B



K9□P60F□-B + K9P□BF



K9□P60F□-B + K9P□B



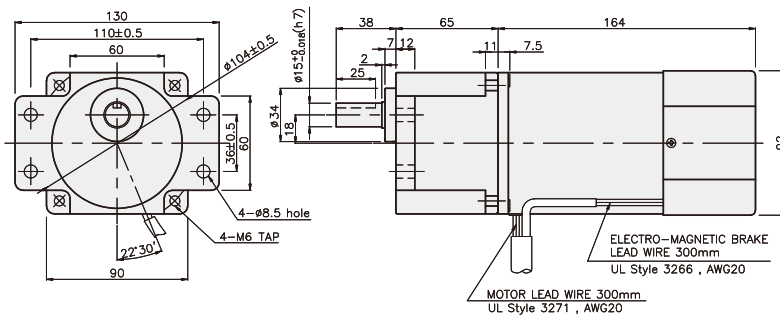
**DIMENSION TABLE**

PART No.	L	Application Model	Mounting BOLT
01	65	K9P3~200B	M6 P1,0 X 25
02	40	K9P10BX	M6 P1,0 X 140

**WEIGHT**

PART	WEIGHT(kg)	
MOTOR	3,08	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10B	1,22
	K9P12,5~20B	1,32
	K9P25~60B	1,42
	K9P75~200B	1,45

K9□P60F□-B + 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)	
MOTOR	3,08	
DECIMAL GEAR HEAD	0,62	
GEAR HEAD	K9P3~10BF	1,22
	K9P12,5~20BF	1,30
	K9P25~60BF	1,42
	K9P75~200BF	1,44