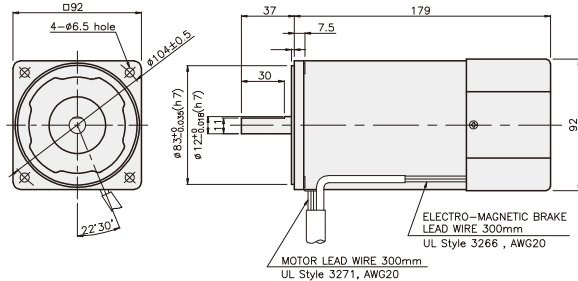
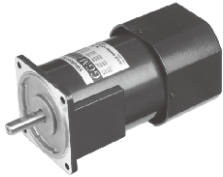


## BRAKE MOTOR

### 90W

### □90mm

K9□S90F□-B



### SPECIFICATIONS

90W 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 ( $\mu$ F)	Friction T. (N*m / Kgf*cm)				
K9R□90FJ-B	single-phase	100	50	2.52	0.6/6	0.705/7.05	1250	35	1/10				
			60	2.42		0.57/5.7	1550						
			K9R□90FU-B	110	60	1.88	0.55/5.5			0.57/5.7	1550	25	1/10
						2.12							
			K9R□90FL-B	200	50	0.9	0.55/5.5			0.705/7.05	1250	8	1/10
					60	1.1				0.57/5.7	1550		
K9R□90FC-B	three-phase	220	50	1	0.5/5	0.705/7.05	1250	7	1/10				
			60	1.1		0.53/5.3	1550						
			50	1.3	0.6/6	0.705/7.05	1250						
			60	1.1		0.57/5.7	1550						
K9R□90FD-B	240	50	0.94	0.55/5.5	0.705/7.05	1250	6	1/10					
K9I□90FT-B	three-phase	200	50	0.79	2.25/22.5	0.65/6.5	1350	-	1/10				
			60	0.72	1.75/17.5	0.55/5.5	1600						
K9I□90FH-B	three-phase	220	50	0.72	2.35/23.5	0.65/6.5	1350	-	1/10				
			60	0.63	1.8/18	0.55/5.5	1600						
K9I□90FM-B	three-phase	230	50	0.86	2.45/24.5	0.65/6.5	1350	-	1/10				
			60	0.66	1.95/19.5	0.55/5.5	1600						
K9I□90FV-B	three-phase	380	50	0.43	2.35/23.5	0.65/6.5	1350	-	1/10				
			60	0.37	1.7/17	0.55/5.5	1600						
K9I□90FQ-B	three-phase	400	50	0.52	2.65/26.5	0.65/6.5	1350	-	1/10				
			60	0.45	2.1/21	0.55/5.5	1600						
K9I□90FZ-B	three-phase	415	50	0.39	2/20	0.68/6.8	1300	-	1/10				
			60	0.31	1.5/15	0.55/5.5	1600						
K9I□90FZ-B	three-phase	440	50	0.45	2.1/21	0.68/6.8	1300	-	1/10				
			60	0.39	1.7/17	0.55/5.5	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□P90F□-B K9P□B, BF	158	190	263	316	395	474	527	592	711	853	948	1066	1279	1535	1706	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 : 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□P90F□-B K9P□B, BF	134	160	223	267	334	401	446	501	601	722	802	902	1083	1299	1443	180	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	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/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

### RATED TORQUE OF GEARHEAD

#### ● 50Hz

unit = above : N · m / below : kgfcm

Model	Speed(rpm)	500	416	300	250	200	166	150	120	100	82	75	60	50	41	37	30	25	20	16	15	13	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□P90F□-B		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	21,32	25,59	30	30	30	30	30	30	30
K9P□BU, BUF		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

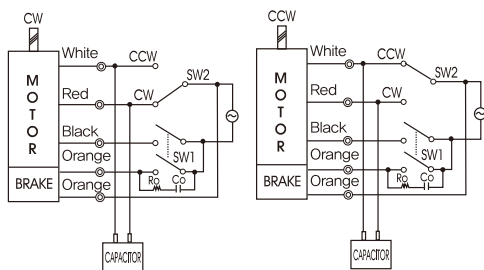
unit = above : N · m / below : kgfcm

Model	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□P90F□-B		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	30	30	30	30	30	30
K9P□BU, BUF		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	300	300	300	300	300	300

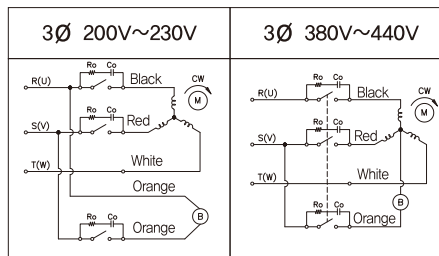
- \* Gearhead and decimal gearhead are sold separately.
- \* The code in □ of gearhead model is for gear ratio.
- \*  color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.
- \* If you 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.

### 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)

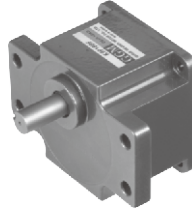
## GEARHEADS

### DIMENSIONS

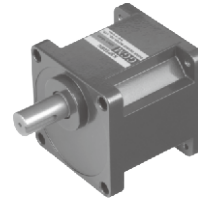
K9P□B



K9P□BF, BUF



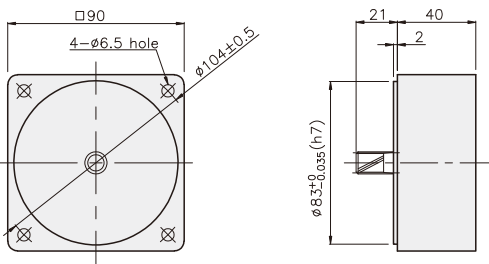
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### DECIMAL GEARHEAD

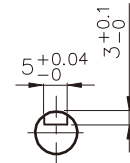
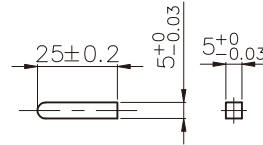
K9P10BX

### KEY SPEC



● KEY

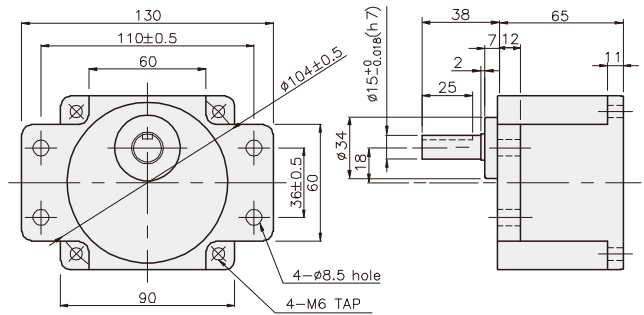
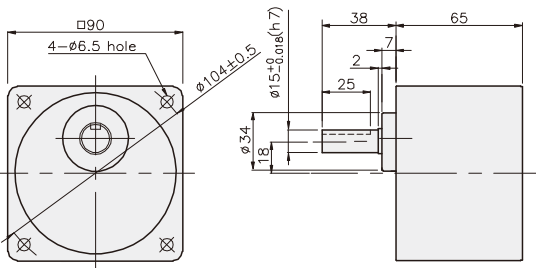
● KEY GROOVE



### GEARHEAD

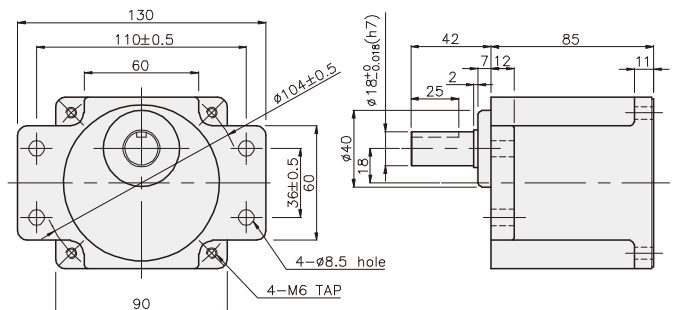
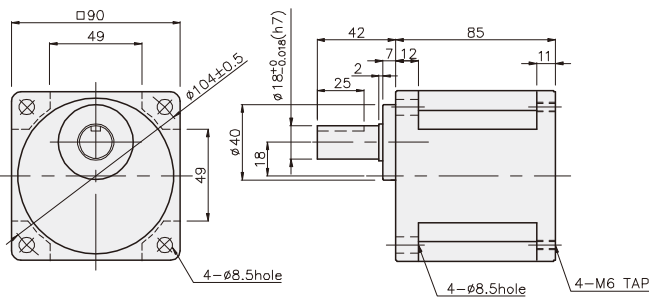
K9P□B

K9P□BF



K9P□BU

K9P□BUF



BRAKE MOTOR

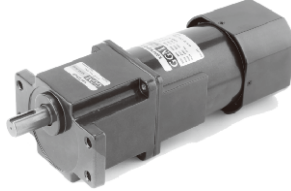
## GEARHEADS

### DIMENSIONS

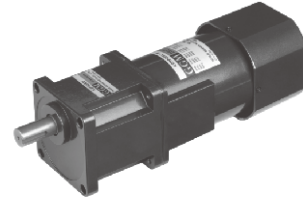
K9□P90F□-B + K9P□B



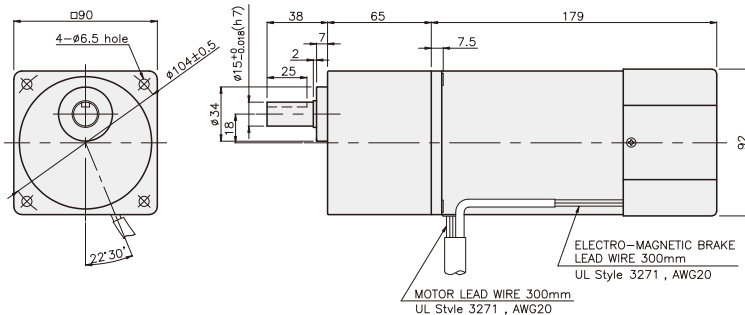
K9□P90F-B + K9P□BF, BUF



K9□P90F□-B + K9P□BU



K9□P90F□-B + K9P□B



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	3,60
DECIMAL GEAR HEAD	0,62

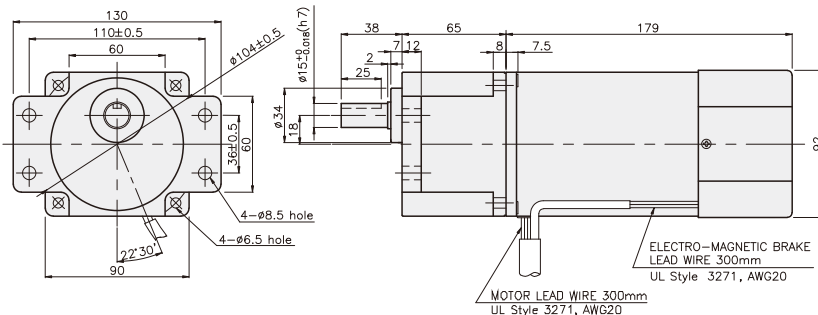
#### DIMENSION TABLE

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

K9□P90F-B + K9P□BF



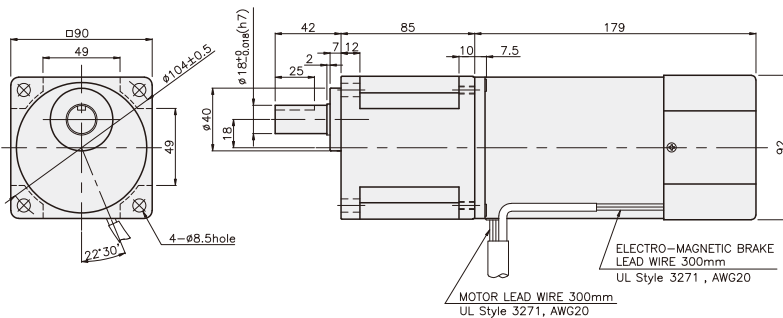
#### DIMENSION TABLE

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

K9□P90F□-B + K9P□BU



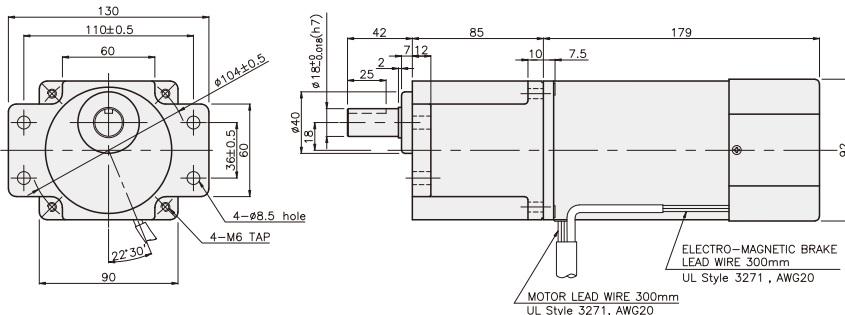
#### DIMENSION TABLE

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

K9□P90F□-B + 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