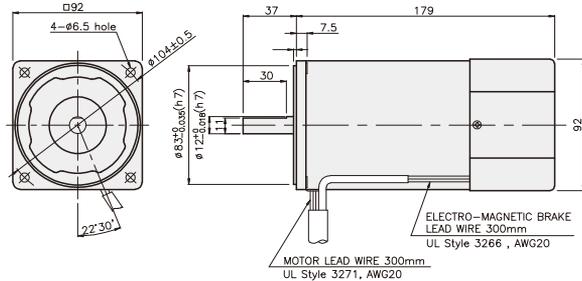


BRAKE MOTOR

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 (μF)	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						
110			60	1.88	0.55/5.5	0.57/5.7	1550						
				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	continuous	220	50	1	0.5/5	0.705/7.05	1250	7	1/10		
					60	1.1	0.53/5.3	0.57/5.7	1550				
K9R□90FD-B				230	50	1.3	0.6/6	0.705/7.05	1250				
					60	1.1		0.57/5.7	1550				
K9I□90FT-B				240	50	0.94	0.55/5.5	0.705/7.05	1250			6	1/10
					60	0.79	2.25/22.5	0.65/6.5	1350				
K9I□90FH-B	200	50	0.72	1.75/17.5	0.55/5.5	1600	-	1/10					
		60	0.72	2.35/23.5	0.65/6.5	1350							
K9I□90FH-B	220	50	0.63	1.8/18	0.55/5.5	1600	-	1/10					
		60	0.63	2.45/24.5	0.65/6.5	1350							
K9I□90FM-B	230	50	0.86	1.95/19.5	0.55/5.5	1600	-	1/10					
		60	0.66	1.95/19.5	0.55/5.5	1600							
K9I□90FM-B	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□90FV-B	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□90FQ-B	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	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) * FH-B which are in end of the model name is UL certified ones. UL FILE NO. E204632
 * 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	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 : 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	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	18.0	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

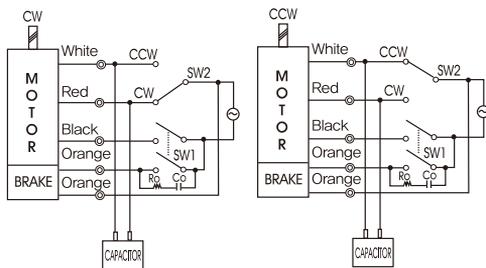
unit = above : N · m / below : kgfcm

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

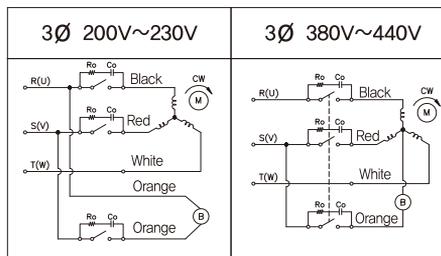
- * Gearhead and decimal gearhead are sold separately.
- * The code in □ of gearhead model is for gear ratio.
- * color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.
- * If you are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

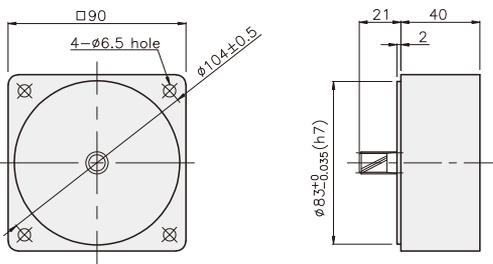


K9P□BU

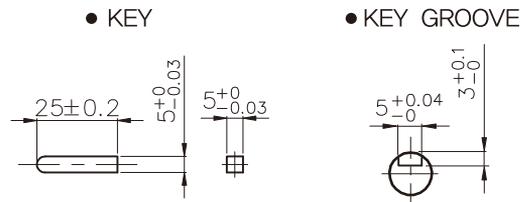


DECIMAL GEARHEAD

K9P10BX

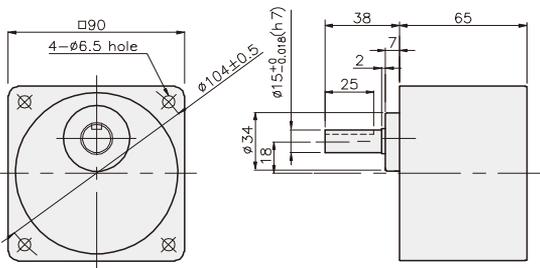


KEY SPEC

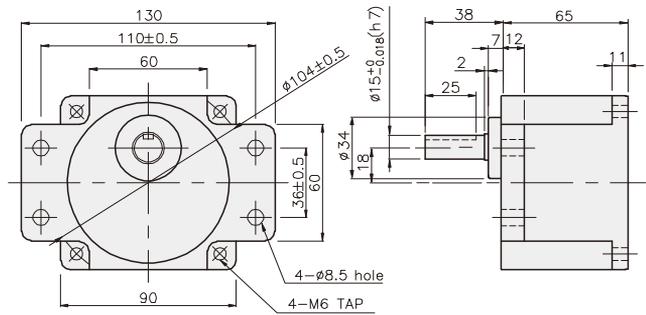


GEARHEAD

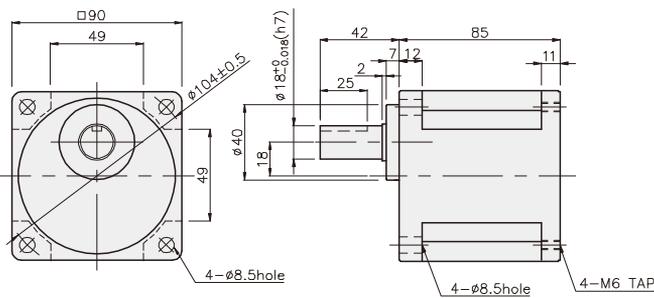
K9P□B



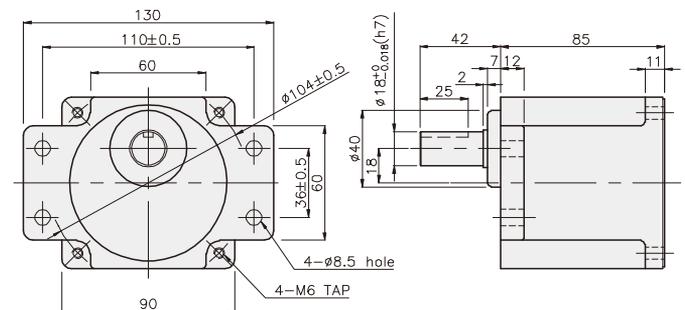
K9P□BF



K9P□BU



K9P□BUF



BRAKE MOTOR

GEARHEADS

DIMENSIONS

K9□P90F□-B + K9P□B



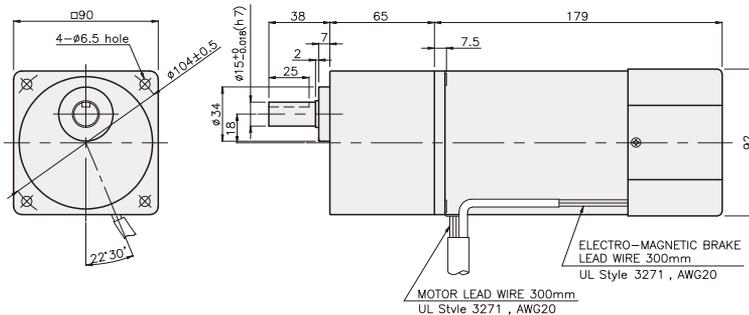
K9□P90F-B + K9P□BF, BUF



K9□P90F□-B + K9P□BU



K9□P90F□-B + K9P□B



WEIGHT

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

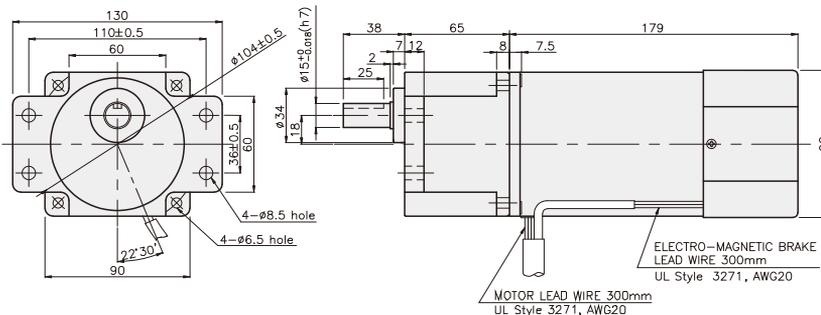
DIMENSION TABLE

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



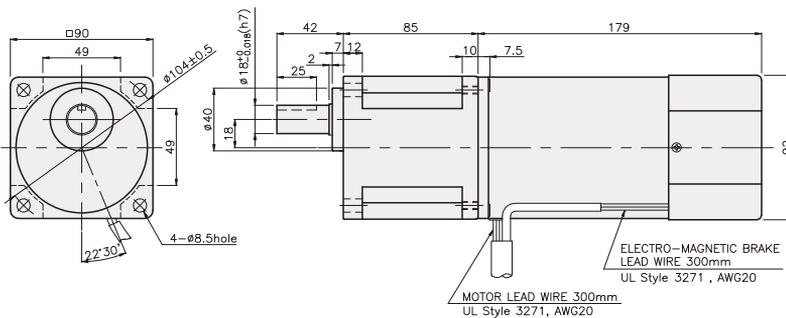
DIMENSION TABLE

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



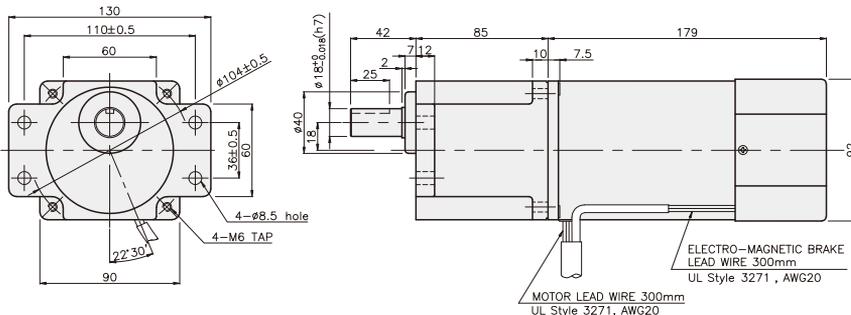
DIMENSION TABLE

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