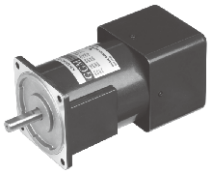
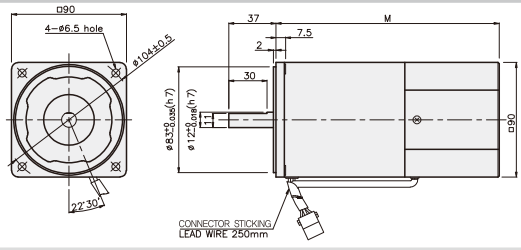
SPEED CONTROL MOTOR - SU SERIES

120W □90mm INDUCTION MOTOR

K9IS120F□-SU





SPECIFICATIONS

120W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Speed Range (rpm)	Permissible Torque 1200rpm (N∗m/ Kgf∗Cm)	Permissible Torque 90rpm (N∗m/ Kgf∗Cm)	Start T. (N∗m/ Kgf∗Cm)	Current (A)	Condenser (μF)
K9I□120FJ-SU	single-phase	100	50	90 ~ 1400	0.83/8.3	0.3/3	0.4/4	3.4	35
			60	90 ~ 1700			0.45/4.5		
K9I□120FU-SU		110	60	90 ~ 1700	0.83/8.3	0.3/3	0.45/4.5	3.2	30
		115							
K9I□120FL-SU		200	50	90 ~ 1400	0.83/8.3	0.28/2.8	0.4/4	1.4	8.5
			60	90 ~ 1700	0.8/8	0.3/3		1.5	8
K9I□120FC-SU		220	50	90 ~ 1400	0.83/8.3	0.28/2.8	0.4/4	1.2	6
		230		90 ~ 1700					
		220	60	90 ~ 1400	0.8/8	0.3/3	0.45/4.5	1.4	7
		230		90 ~ 1700					
K9I□120FD-SU		240	50	90 ~ 1400	0.83/8.3	0.28/2.8	0.4/4	1.3	6

※ □ : SHAFT SHAPE (S : STRAIGHT, P : PINION)

RATED TORQUE OF GEARHEAD

● Single-phase 100V/115V

unit = above : N·m / below : Kgf·cm

Model / Motor/Gearhead	Ratio / Speed(rpm)	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□-SU K9P□B, BF	1200	2.02 20.2	2.42 24.2	3.36 33.6	4.03 40.3	5.04 50.4	6.05 60.5	6.72 67.2	7.56 75.6	9.08 90.8	10.89 108.9	12.10 121.0	13.61 136.1	16.34 163.4	19.60 196.0	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200
	90	0.73 7.3	0.87 8.7	1.22 12.2	1.46 14.6	1.82 18.2	2.19 21.9	2.43 24.3	2.73 27.3	3.28 32.8	3.94 39.4	4.37 43.7	4.92 49.2	5.90 59.0	7.09 70.9	7.87 78.7	9.84 98.4	11.81 118.1	13.29 132.9	15.94 159.4	17.71 177.1	20 200	20 200	20 200	20 200

● Single-phase 200V/240V

unit = above : N·m / below : Kgf·cm

Model / Motor/Gearhead	Ratio / Speed(rpm)		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□-SU K9P□B, BF	1200	200V/220V/230V 240V/50HZ	2.02 20.2	2.42 24.2	3.36 33.6	4.03 40.3	5.04 50.4	6.05 60.5	6.72 67.2	7.56 75.6	9.08 90.8	10.89 108.9	12.10 121.0	13.61 136.1	16.34 163.4	19.60 196.0	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200
		200V/220V 230V/60HZ	1.94 19.4	2.33 23.3	3.24 32.4	3.89 38.9	4.86 48.6	5.83 58.3	6.48 64.8	7.29 72.9	8.75 87.5	10.50 105.0	11.66 116.6	13.12 131.2	15.75 157.5	18.90 189.0	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200	20 200
	90	200V/220V/230V 240V/50HZ	0.68 6.8	0.82 8.2	1.13 11.3	1.36 13.6	1.70 17.0	2.04 20.4	2.27 22.7	2.55 25.5	3.06 30.6	3.67 36.7	4.08 40.8	4.59 45.9	5.51 55.1	6.61 66.1	7.35 73.5	9.19 91.9	11.02 110.2	12.40 124.0	14.88 148.8	16.53 165.3	19.84 198.4	20 200	20 200	20 200
		200V/220V 230V/50HZ	0.73 7.3	0.87 8.7	1.22 12.2	1.46 14.6	1.82 18.2	2.19 21.9	2.43 24.3	2.73 27.3	3.28 32.8	3.94 39.4	4.37 43.7	4.92 49.2	5.90 59.0	7.09 70.9	7.87 78.7	9.84 98.4	11.81 118.1	13.29 132.9	15.94 159.4	17.71 177.1	20 200	20 200	20 200	20 200

* 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

● Single-phase 100V/115V

unit = above : N·m / below : Kgf·cm

Model / Motor/Gearhead	Ratio / Speed(rpm)	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□-SU K9P□BU, BUF	1200	2.02 20.2	2.42 24.2	3.36 33.6	4.03 40.3	5.04 50.4	6.05 60.5	6.72 67.2	7.56 75.6	9.08 90.8	10.89 108.9	12.10 121.0	13.61 136.1	16.34 163.4	19.60 196.0	21.78 217.8	27.23 272.3	30 300	30 300	30 300	30 300	30 300	30 300	30 300	30 300
	90	0.73 7.3	0.87 8.7	1.22 12.2	1.46 14.6	1.82 18.2	2.19 21.9	2.43 24.3	2.73 27.3	3.28 32.8	3.94 39.4	4.37 43.7	4.92 49.2	5.90 59.0	7.09 70.9	7.87 78.7	9.84 98.4	11.81 118.1	13.29 132.9	15.94 159.4	17.71 177.1	21.26 212.6	26.57 265.7	30 300	30 300

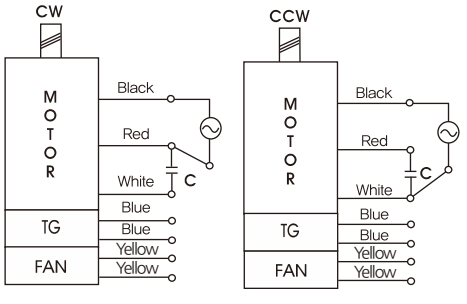
● Single-phase 200V/240V

unit = above : N·m / below : Kgf·cm

Model / Motor/Gearhead	Ratio / Speed(rpm)		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□-SU K9P□BU, BUF	1200	200V/220V/230V 240V/50HZ	2.02 20.2	2.42 24.2	3.36 33.6	4.03 40.3	5.04 50.4	6.05 60.5	6.72 67.2	7.56 75.6	9.08 90.8	10.89 108.9	12.10 121.0	13.61 136.1	16.34 163.4	19.60 196.0	21.78 217.8	27.23 272.3	30 300	30 300	30 300	30 300	30 300	30 300	30 300	30 300
		200V/220V 230V/60HZ	1.94 19.4	2.33 23.3	3.24 32.4	3.89 38.9	4.86 48.6	5.83 58.3	6.48 64.8	7.29 72.9	8.75 87.5	10.50 105.0	11.66 116.6	13.12 131.2	15.75 157.5	18.90 189.0	21.00 210.0	26.24 262.4	30 300	30 300	30 300	30 300	30 300	30 300	30 300	30 300
	90	200V/220V/230V 240V/50HZ	0.68 6.8	0.82 8.2	1.13 11.3	1.36 13.6	1.70 17.0	2.04 20.4	2.27 22.7	2.55 25.5	3.06 30.6	3.67 36.7	4.08 40.8	4.59 45.9	5.51 55.1	6.61 66.1	7.35 73.5	9.19 91.9	11.02 110.2	12.40 124.0	14.88 148.8	16.53 165.3	19.84 198.4	24.80 248.0	29.76 297.6	30 300
		200V/220V 230V/60HZ	0.73 7.3	0.87 8.7	1.22 12.2	1.46 14.6	1.82 18.2	2.19 21.9	2.43 24.3	2.73 27.3	3.28 32.8	3.94 39.4	4.37 43.7	4.92 49.2	5.90 59.0	7.09 70.9	7.87 78.7	9.84 98.4	11.81 118.1	13.29 132.9	15.94 159.4	17.71 177.1	21.26 212.6	26.57 265.7	30 300	30 300

* 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 / 300kgf·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.

CONNECTION DIAGRAMS



DIMENSION TABLE

PART No.	M	Application Model
01	195	50Hz
02	175	60Hz

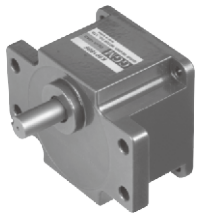
※The direction of motor rotation is as viewed from the front shaft end of the motor

GEARHEADS

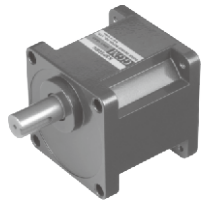
DIMENSIONS

K9P□B

K9P□BF, BUF

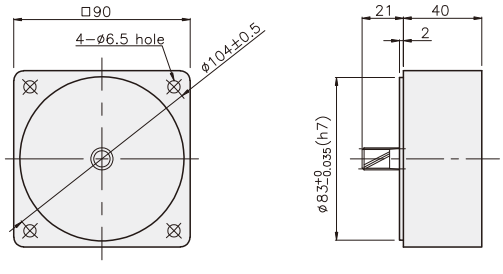


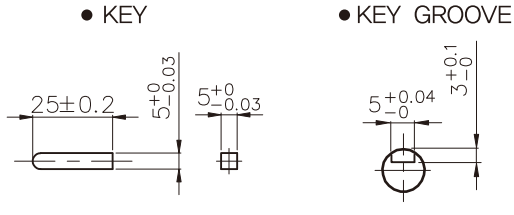
K9P□BU



DECIMAL GEARHEAD

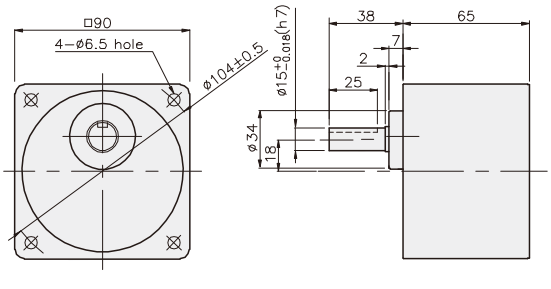
K9P10BX



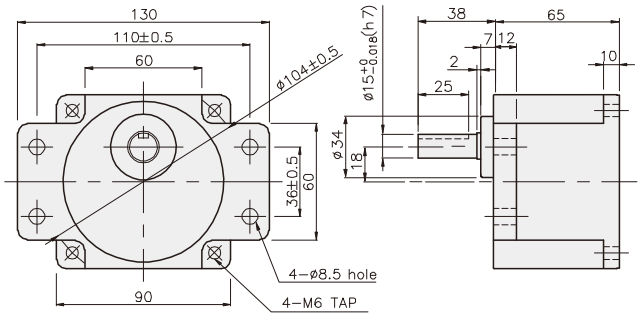


GEARHEAD

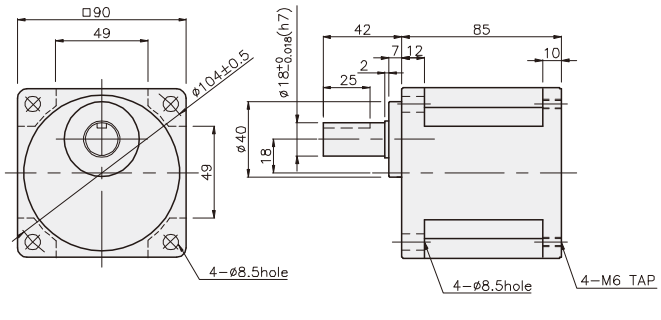
K9P□B



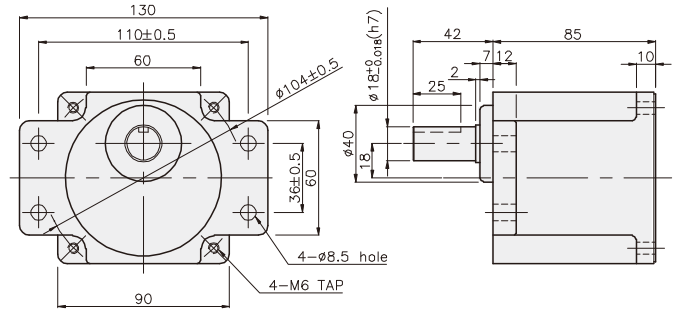
K9P□BF



K9P□BU



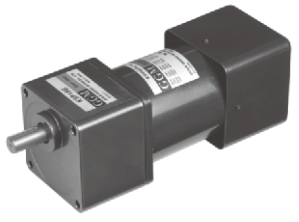
K9P□BUF



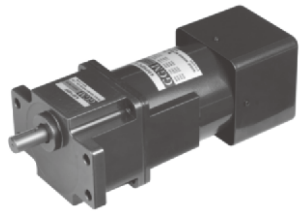
GEARHEADS

DIMENSIONS

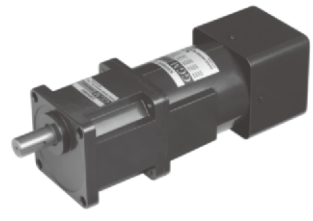
K9IP120F□-SU + K9P□B



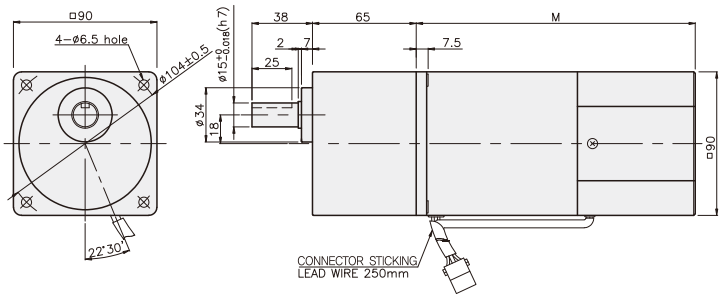
K9IP120F□-SU + K9P□BF, BUF



K9IP120F□-SU + K9P□BU



K9IP120F□-SU + K9P□B



WEIGHT

PART	WEIGHT(kg)
MOTOR	3,54
DECIMAL GEAR HEAD	0,62

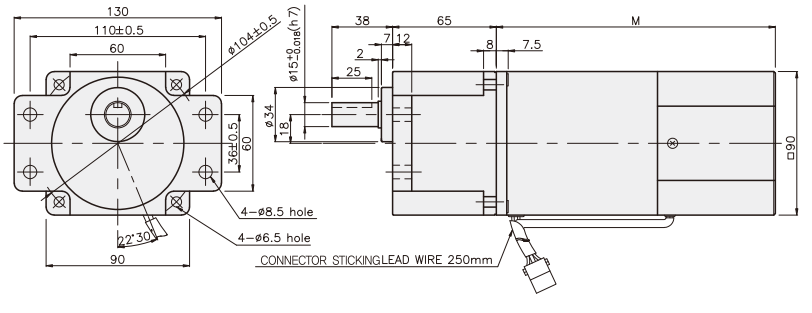
DIMENSION TABLE

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

K9IP120F□-SU + K9P□BF



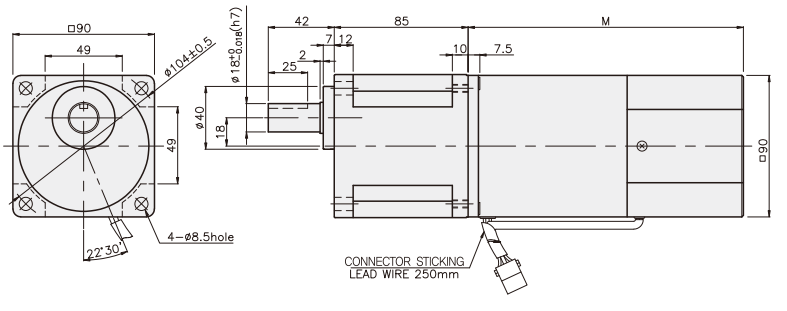
WEIGHT

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

K9IP120F□-SU + K9P□BU



WEIGHT

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

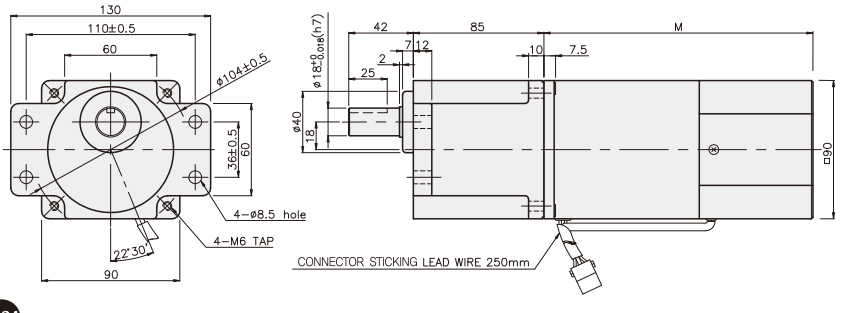
DIMENSION TABLE

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

K9IP120F□-SU + 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