

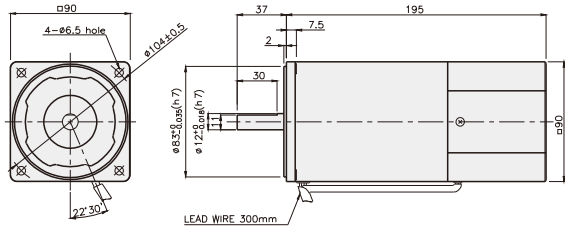
## SPEED CONTROL MOTOR - SP SERIES

### 180W

### □90mm

### INDUCTION MOTOR

K9□S180F□-SP



### SPECIFICATIONS

180W continuous rating, four poles

Model	Voltage (V)	Frequency (Hz)	Speed Range (rpm)	Permissible Torque		Start T. (N*m/Kgf*cm)	Current (A)	Condenser (μF)
				1200rpm (N*m/Kgf*cm)	90rpm (N*m/Kgf*cm)			
K9□180FJ-SP	100	50	90 ~ 1400	0.9/9	0.35/3.5	0.6/6	5.2	50
		60	90 ~ 1700			0.65/6.5		
K9□180FU-SP	110	60	90 ~ 1700	0.9/9	0.35/3.5	0.52/5.2	4.8	30
	115					0.55/5.5		
K9□180FL-SP	200	50	90 ~ 1400	0.9/9	0.3/3	0.5/5	2.2	12
		60	90 ~ 1700			0.42/4.2		
K9□180FC-SP	220	50	90 ~ 1400	0.9/9	0.3/3	0.45/4.5	2.2	7
		60	90 ~ 1700			0.42/4.2		
	230	50	90 ~ 1400	1/10	0.33/3.3	0.53/5.3	2.4	
		60	90 ~ 1700			0.5/5		
K9□180FD-SP	240	50	90 ~ 1400	1/10	0.33/3.3	0.6/6	2	8

\* □ : SHAFT SHAPE ( S : STRAIGHT, P : PINION )

### RATED TORQUE OF GEARHEAD

#### ● Single-phase 100V/115V

unit = above : N-m / below : Kgf\*cm

Model	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
Motor/Gearhead	Speed(rpm)																								
K9□180F□-SP K9P□BU, BUF	1200	2.19 21.9	2.62 26.2	3.65 36.5	4.37 43.7	5.47 54.7	6.56 65.6	7.29 72.9	8.20 82.0	9.84 98.4	11.81 118.1	13.12 131.2	14.76 147.6	17.71 177.1	21.26 212.6	23.62 236.2	29.52 295.2	30 300	30 300	30 300	30 300	30 300	30 300	30 300	30 300
	90	0.85 8.5	1.02 10.2	1.42 14.2	1.70 17.0	2.13 21.3	2.55 25.5	2.84 28.4	3.19 31.9	3.83 38.3	4.59 45.9	5.10 51.0	5.74 57.4	6.89 68.9	8.27 82.7	9.19 91.9	11.48 114.8	13.78 137.8	15.50 155.0	18.60 186.0	20.67 206.7	24.80 248.0	30 300	30 300	30 300

#### ● Single-phase 200V/240V

unit = above : N-m / below : Kgf\*cm

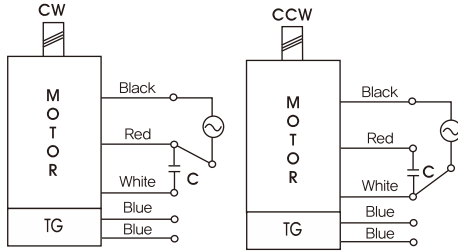
Model	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
Motor/Gearhead	Speed(rpm)																									
K9□180F□-SP K9P□BU, BUF	1200	200V/220V 50V/60Hz	2.19 21.9	2.62 26.2	3.65 36.5	4.37 43.7	5.47 54.7	6.56 65.6	7.29 72.9	8.20 82.0	9.84 98.4	11.81 118.1	13.12 131.2	14.76 147.6	17.71 177.1	21.26 212.6	23.62 236.2	29.52 295.2	30 300	30 300	30 300	30 300	30 300	30 300	30 300	
		230V/50Hz/60Hz 240V/50Hz	2.43 24.3	2.92 29.2	4.05 40.5	4.86 48.6	6.08 60.8	7.29 72.9	8.10 81.0	9.11 91.1	10.94 109.4	13.12 132.2	14.58 145.8	16.40 164.0	19.68 197	23.62 236	26.24 262	30 300	30 300	30 300	30 300	30 300	30 300	30 300	30 300	30 300
	90	200V/220V 50Hz/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
		230V/50Hz/60Hz 240V/50Hz	0.80 8.0	0.96 9.6	1.34 13.4	1.60 16.0	2.00 20.2	2.41 24.1	2.41 24.1	3.34 33.4	4.01 40.1	4.81 48.1	5.35 53.5	5.41 54.1	6.50 65.0	7.79 77.9	8.66 86.6	10.83 108.3	12.99 129.9	14.61 146.1	17.54 175.4	19.49 194.9	23.38 233.8	29.23 292.3	30 300	30 300
		200V/220V 50Hz/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
		230V/50Hz/60Hz 240V/50Hz	0.80 8.0	0.96 9.6	1.34 13.4	1.60 16.0	2.00 20.2	2.41 24.1	2.41 24.1	3.34 33.4	4.01 40.1	4.81 48.1	5.35 53.5	5.41 54.1	6.50 65.0	7.79 77.9	8.66 86.6	10.83 108.3	12.99 129.9	14.61 146.1	17.54 175.4	19.49 194.9	23.38 233.8	29.23 292.3	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.

SPEED CONTROL MOTOR - SP SERIES

## GEARHEADS

### CONNECTION DIAGRAMS



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

### DIMENSIONS

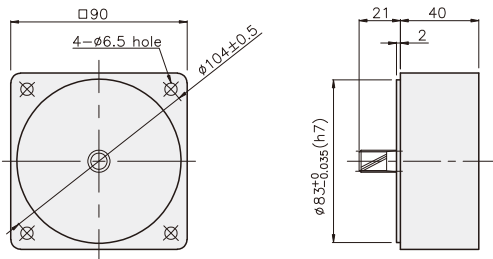
K9P□BU



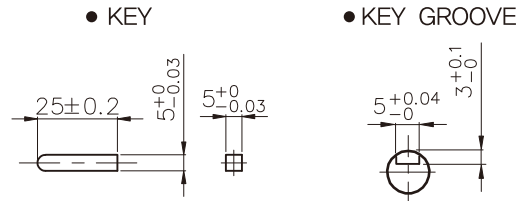
K9P□BUF



DECIMAL GEARHEAD  
K9P10BX

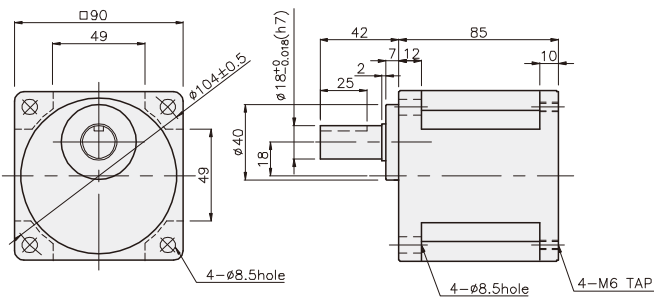


KEY SPEC

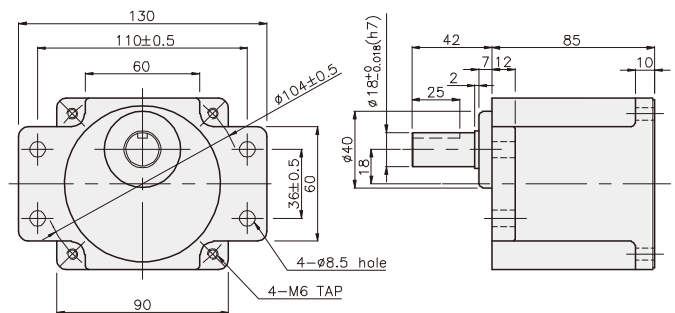


GEARHEAD

K9P□BU



K9P□BUF



## GEARHEADS

### DIMENSIONS

K9IP180F□-SP + K9P□BU



K9IP180F□-SP + K9P□BUF



#### WEIGHT

PART	WEIGHT(kg)
MOTOR	4,24
DECIMAL GEAR HEAD	0,62

#### DIMENSION TABLE

PART No.	L	Application Model	Mounting BOLT
01	85	K9P3~200B	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

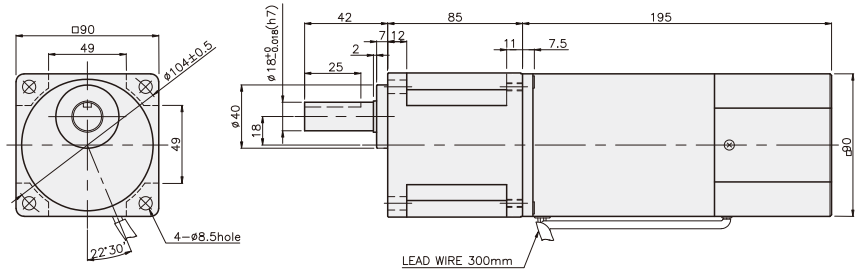
#### DIMENSION TABLE

PART No.	L	Application Model	Mounting BOLT
01	85	K9P3~200BUF	M6 P1,0 X 20
02	40	K9P10BX	M6 P1,0 X 65

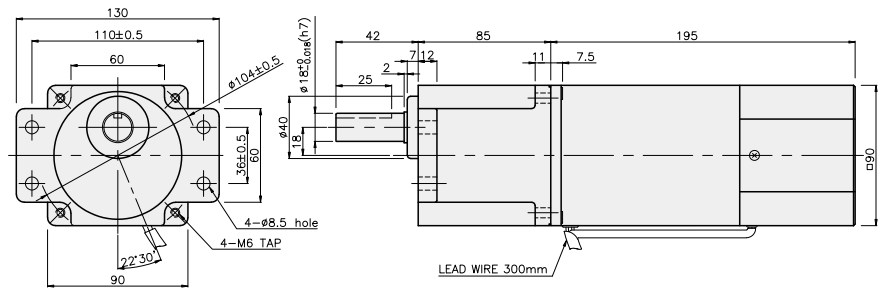
#### WEIGHT

PART	WEIGHT(kg)
K9P3~10BUF	1,50
K9P12,5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82

K9IP180F□-SP + K9P□BU



K9IP180F□-SP + K9P□BUF

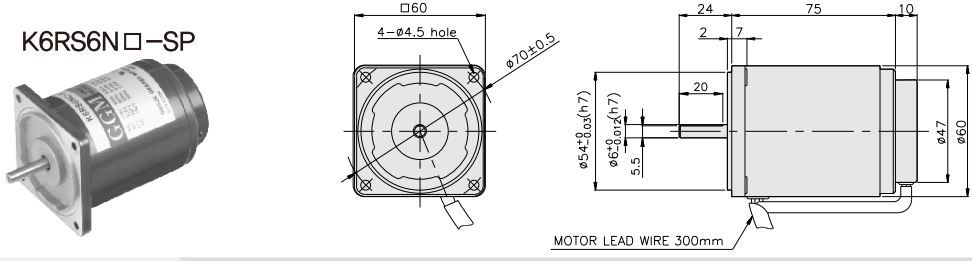


## SPEED CONTROL MOTOR - SP SERIES

**6W**

□60mm

REVERSIBLE MOTOR



### SPECIFICATIONS

6W 30 minutes rating, four poles

Model	Voltage (V)	Frequency (Hz)	Speed Range (rpm)	Permissible Torque		Start T. (N·m/Kgf·Cm)	Current (A)	Condenser (μF)
				1200rpm (N·m/kgf·Cm)	90rpm (N·m/kgf·Cm)			
K6R□6NJ-SP	100	50	90 ~ 1400	0,052/0,52	0,035/0,35	0,027/0,27	0,28	3
		60	90 ~ 1700					
K6R□6NU-SP	110	60	90 ~ 1700	0,052/0,52	0,035/0,35	0,035/0,35	0,32	2,5
	115							
K6R□6NL-SP	200	50	90 ~ 1400	0,06/0,6	0,038/0,38	0,037/0,37	0,2	1
		60	90 ~ 1700					
K6R□6NC-SP	220	50	90 ~ 1400	0,052/0,52	0,03/0,3	0,035/0,35	0,2	0,8
		60	90 ~ 1700			0,033/0,33		
	230	50	90 ~ 1400	0,06/0,6	0,038/0,38	0,035/0,35		
		60	90 ~ 1700			0,033/0,33		
K6R□6ND-SP	240	50	90 ~ 1400	0,052/0,52	0,03/0,3	0,035/0,35	0,22	0,6

\* □ : SHAFT SHAPE ( S : STRAIGHT, G : PINION )

### RATED TORQUE OF GEARHEAD

#### ● Single-phase 100V/115V

unit = above : N·m / below : Kgf·cm

Model	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	250
K6R□6N□-SP K6G□B(C)	1200	0,13 1,3	0,15 1,5	0,21 2,1	0,25 2,5	0,32 3,2	0,38 3,8	0,42 4,2	0,53 5,3	0,63 6,3	0,76 7,6	0,76 7,6	0,95 9,5	1,14 11,4	1,36 13,6	1,52 15,2	1,71 17,1	2,05 20,5	2,56 25,6	3 30	3 30	3 30	3 30	3 30	3 30	3 30
	90	0,09 0,9	0,10 1,0	0,14 1,4	0,17 1,7	0,21 2,1	0,26 2,6	0,28 2,8	0,35 3,5	0,43 4,3	0,51 5,1	0,51 5,1	0,64 6,4	0,77 7,7	0,92 9,2	1,02 10,2	1,15 11,5	1,38 13,8	1,72 17,2	2,07 20,7	2,30 23,0	2,76 27,6	3 30	3 30	3 30	3 30

#### ● Single-phase 200V/240V

unit = above : N·m / below : Kgf·cm

Model	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	250	
K6R□6N□-SP K6G□B(C)	1200	200V/230V 50Hz/60Hz	0,15 1,5	0,17 1,7	0,24 2,4	0,29 2,9	0,36 3,6	0,44 4,4	0,49 4,9	0,61 6,1	0,73 7,3	0,87 8,7	0,87 8,7	1,09 10,9	1,31 13,1	1,57 15,7	1,75 17,5	1,97 19,7	2,36 23,6	2,95 29,5	3 30	3 30	3 30	3 30	3 30	3 30	3 30
		220V/50Hz/60Hz 240V/50Hz	0,13 1,3	0,15 1,5	0,21 2,1	0,25 2,5	0,32 3,2	0,38 3,8	0,42 4,2	0,53 5,3	0,63 6,3	0,76 7,6	0,76 7,6	0,95 9,5	1,14 11,4	1,36 13,6	1,52 15,2	1,71 17,1	2,05 20,5	2,56 25,6	3 30	3 30	3 30	3 30	3 30	3 30	3 30
	90	200V/230V 50Hz/60Hz	0,09 0,9	0,11 1,1	0,15 1,5	0,18 1,8	0,23 2,3	0,28 2,8	0,31 3,1	0,38 3,8	0,46 4,6	0,55 5,5	0,55 5,5	0,69 6,9	0,83 8,3	1,00 10,0	1,11 11,1	1,25 12,5	1,50 15,0	1,87 18,7	2,24 22,4	2,49 24,9	2,99 29,9	3 30	3 30	3 30	3 30
		220V/50Hz/60Hz 240V/50Hz	0,07 0,7	0,09 0,9	0,12 1,2	0,15 1,5	0,18 1,8	0,22 2,2	0,24 2,4	0,30 3,0	0,36 3,6	0,44 4,4	0,44 4,4	0,55 5,5	0,66 6,6	0,79 7,9	0,87 8,7	0,98 9,8	1,18 11,8	1,48 14,8	1,77 17,7	1,97 19,7	2,36 23,6	2,95 29,5	3 30	3 30	3 30

- \* 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 3N·m/30kgf·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.

