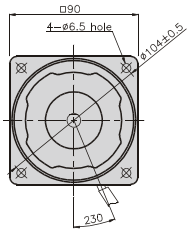
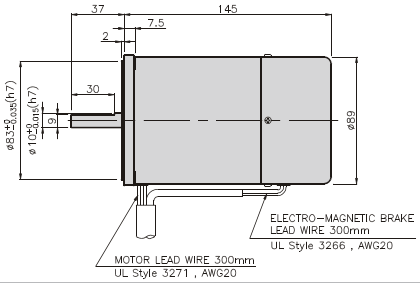
BRAKE MOTOR

40W □90mm

K9□S40N□-B





SPECIFICATIONS

40W 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□40NJ-B	single-phase	30 minutes	100	50	1	0.3/3	0.315/3.15	1250	16	1/10
				60	1.13	0.33/3.3	0.255/2.55	1550		
K9R□40NU-B			110	60	0.8	0.2/2	0.26/2.6	1500	10	1/10
			115		0.83	0.22/2.2				
K9R□40NL-B			200	50	0.45	0.3/3	0.315/3.15	1250	4	1/10
				60	0.57		0.26/2.6	1500		
K9R□40NC-B			220	50	0.46	0.3/3	0.315/3.15	1250	3.5	1/10
				60	0.55	0.32/3.2	0.26/2.6	1500		
			230	50	0.55	0.4/4	0.315/3.15	1250		
				60	0.58	0.36/3.6	0.26/2.6	1500		
K9R□40ND-B			240	50	0.41	0.34/3.4	0.3/3	1300	3	1/10
K9I□40NT-B	three-phase	continuous	200	50	0.39	1/10	0.3/3	1300	-	1/10
				60	0.32	0.78/7.8	0.245/2.45	1600		
K9I□40NH-B			220	50	0.33	0.95/9.5	0.29/2.9	1350	-	1/10
				60	0.31	0.78/7.8	0.245/2.45	1600		
			230	50	0.41	1/10	0.29/2.9	1350		
				60	0.32	0.83/8.3	0.245/2.45	1600		
K9I□40NM-B			380	50	0.18	1/10	0.29/2.9	1350	-	1/10
				60		0.78/7.8	0.245/2.45	1600		
K9I□40NV-B			400	50	0.18	1.15/11.5	0.29/2.9	1350	-	1/10
				60	0.19	0.88/8.8	0.245/2.45	1600		
K9I□40NQ-B			415	50	0.16	0.95/9.5	0.29/2.9	1350	-	1/10
				60	0.14	0.72/7.2	0.245/2.45	1600		
K9I□40NZ-B			440	50	0.19	1/10	0.29/2.9	1350	-	1/10
				60	0.16	0.79/7.9	0.245/2.45	1600		

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

RATED TORQUE OF GEARHEAD

● 50Hz

unit = above : N · m / below : kgfcm

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□G40N□-B		0.70	0.85	1.17	1.41	1.76	2.11	2.35	2.94	3.52	4.23	4.23	5.29	6.34	7.61	8.46	10	10	10	10	10	10	10	10	10
K9G□B(C)		7.0	8.5	11.7	14.1	17.6	21.1	23.5	29.4	35.2	42.3	42.3	52.9	63.4	76.1	84.6	100	100	100	100	100	100	100	100	100

● 60Hz

unit = above : N · m / below : kgfcm

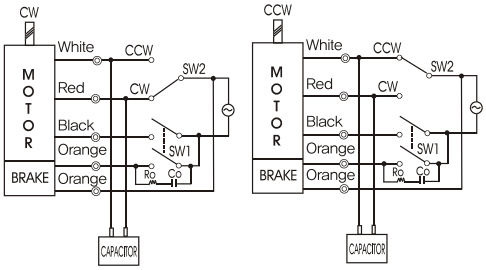
Model	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
Motor/ Gearhead	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9□G40N□-B		0.60	0.71	0.99	1.19	1.49	1.79	1.98	2.48	2.98	3.57	3.57	4.47	5.36	6.43	7.14	8.04	10	10	10	10	10	10	10	10
K9G□B(C)		6.0	7.1	9.9	11.9	14.9	17.9	19.8	24.8	29.8	35.7	35.7	44.7	53.6	64.3	71.4	80.4	100	100	100	100	100	100	100	100

* 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 10N · m/100kgfcm.
* 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.

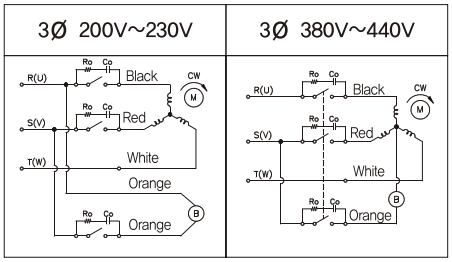
GEARHEADS

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 serge voltage as connection diagram to protect contact point.
Ro = 5 – 200Ω
Co = 0.1 ~ 0.2μF 200WV(400WV)

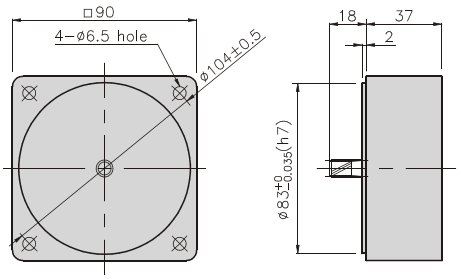
DIMENSIONS

K9G□B(C)

K9□G40N□–B + K9G□B(C)

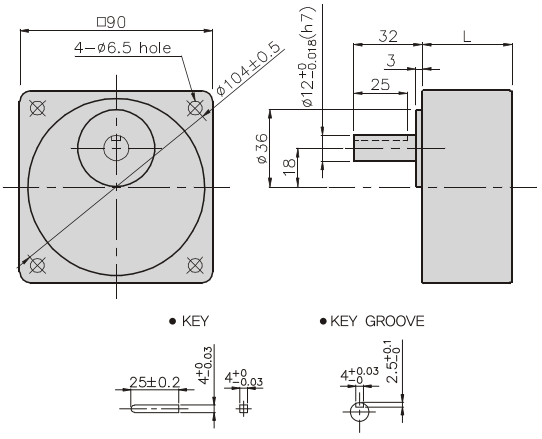
DECIMAL GEARHEAD

K9G10BX



GEARHEAD

K9G□B(C)



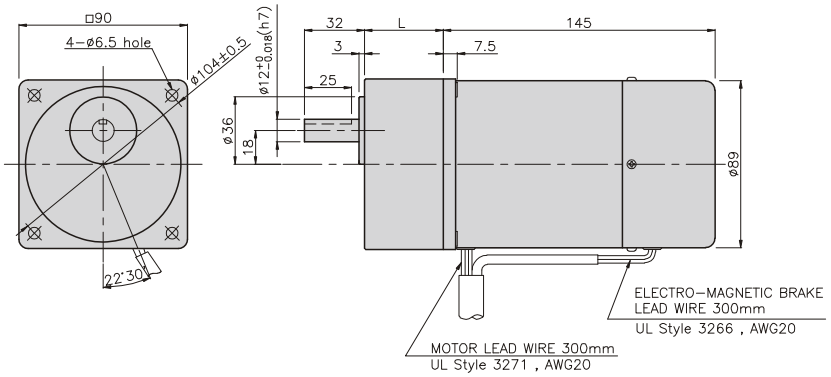
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.86
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9□G40N□–B + K9G□B(C)



INDUCTION MOTOR

40W □90mm LEAD WIRE TYPE TERMINAL BOX TYPE

K9IS40N□

K9IS40N□–T, T5

SPECIFICATIONS

40W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N∗m/ Kgf∗Cm)	Rated T. (N∗m/ Kgf∗Cm)	Speed (rpm)	Condenser (μF)
K9I□40NJ(–T, –T5)	single–phase	100	50	0.86	0.21/2.1	0.315/3.15	1250	12
			60	0.84	0.22/2.2	0.255/2.55	1550	
K9I□40NU(–T, –T5)		110	60	0.65	0.19/1.9	0.255/2.55	1550	8
		115		0.68	0.2/2			
K9I□40NL(–T, –T5)		200	50	0.4	0.22/2.2	0.315/3.15	1250	3
			60	0.41		0.255/2.55	1550	
K9I□40NC(–T, –T5)		220	50	0.38	0.24/2.4	0.315/3.15	1250	2.5
			60	0.37		0.255/2.55	1550	
		230	50	0.4	0.26/2.6	0.315/3.15	1250	
			60	0.38		0.255/2.55	1550	
K9I□40ND(–T, –T5)		240	50	0.39	0.2/2	0.3/3	1300	2
K9I□40NT(–T, –T5)	three–phase	200	50	0.39	1/10	0.3/3	1300	–
			60	0.32	0.78/7.8	0.245/2.45	1600	
K9I□40NH(–T, –T5)		220	50	0.33	0.95/9.5	0.29/2.9	1350	–
			60	0.31	0.78/7.8	0.245/2.45	1600	
		230	50	0.41	1/10	0.29/2.9	1350	
			60	0.32	0.83/8.3	0.245/2.45	1600	
K9I□40NM(–T, –T5)		380	50	0.18	1/10	0.29/2.9	1350	–
			60		0.78/7.8	0.245/2.45	1600	
K9I□40NV(–T, –T5)		400	50	0.18	1.15/11.5	0.29/2.9	1350	–
			60	0.19	0.88/8.8	0.245/2.45	1600	
K9I□40NQ(–T, –T5)		415	50	0.16	0.95/9.5	0.29/2.9	1350	–
			60	0.14	0.72/7.2	0.245/2.45	1600	
K9I□40NZ(–T, –T5)		440	50	0.19	1/10	0.29/2.9	1350	–
			60	0.16	0.79/7.9	0.245/2.45	1600	

∗□ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

RATED TORQUE OF GEARHEAD

● 50Hz

unit = above : N · m / below : kgfcm

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
K9I□40N□(–T, –T5)		0.70	0.85	1.17	1.41	1.76	2.11	2.35	2.94	3.52	4.23	4.23	5.29	6.34	7.61	8.46	10	10	10	10	10	10	10	10	10
K9G□B(C)		7.0	8.5	11.7	14.1	17.6	21.1	23.5	29.4	35.2	42.3	42.3	52.9	63.4	76.1	84.6	100	100	100	100	100	100	100	100	100

● 60Hz

unit = above : N · m / below : kgfcm

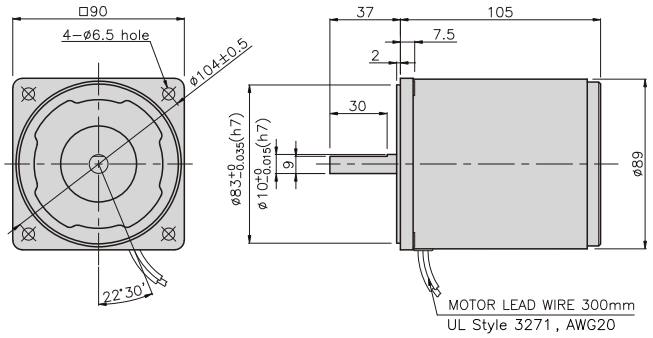
Model	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
Motor/ Gearhead	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9I□40N□(–T, –T5)		0.60	0.71	0.99	1.19	1.49	1.79	1.98	2.48	2.98	3.57	3.57	4.47	5.36	6.43	7.14	8.04	10	10	10	10	10	10	10	10
K9G□B(C)		6.0	7.1	9.9	11.9	14.9	17.9	19.8	24.8	29.8	35.7	35.7	44.7	53.6	64.3	71.4	80.4	100	100	100	100	100	100	100	100

* 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 10N · m/100kgfcm.
* 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.

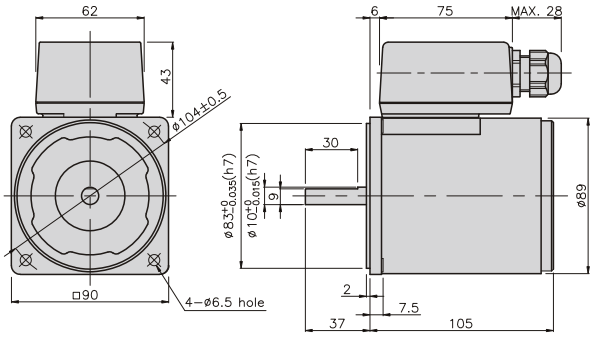
GEARHEADS

DIMENSIONS

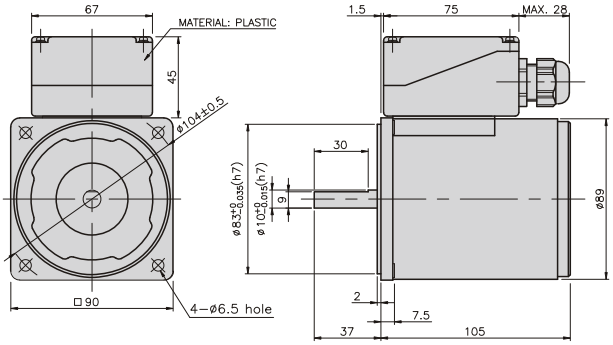
K9IS40N□



K9IS40N□-T



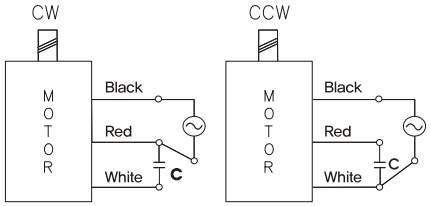
K9IS40N□-T5



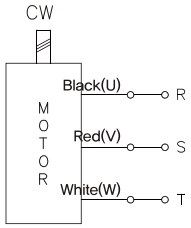
CONNECTION DIAGRAMS

K9IS40N□

single phase motor



three phase motor

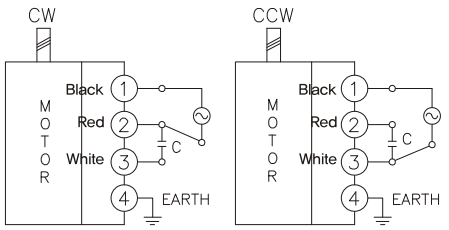


connecting two leadwires of U,V,W in turns

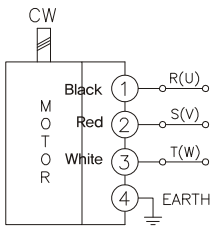
The direction of motor rotation is as viewed from the front shaft end of the motor

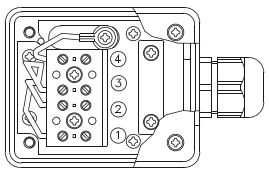
K9IS40N□-T

single phase motor



three phase motor

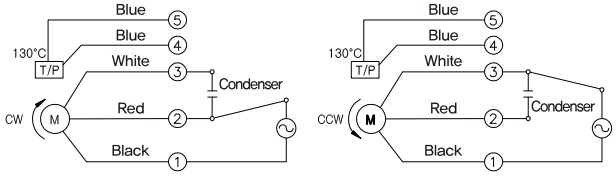




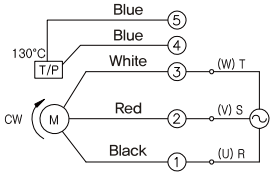
The direction of motor rotation is as viewed from the front shaft end of the motor

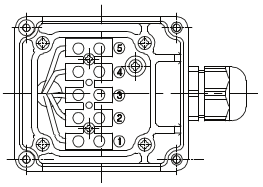
K9IS40N□-T5

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

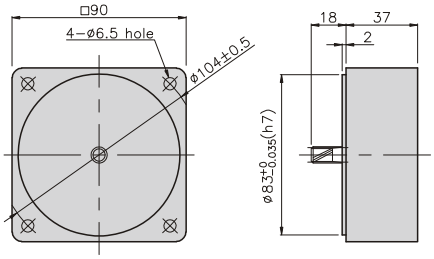
GEARHEADS

DIMENSIONS

K9G□B(C)

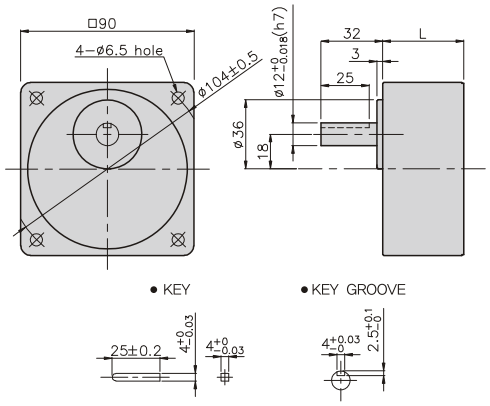
DECIMAL GEARHEAD

K9G10BX



GEAR HEAD

K9G□B(C)



GEARHEADS

DIMENSIONS

K9IG40N□ + K9G□B(C)

K9IG40N□-T(T5) + K9G□B(C)

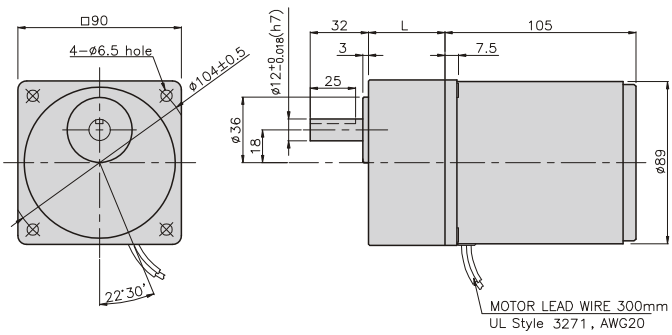
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.36
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9IG40N□ + K9G□B(C)



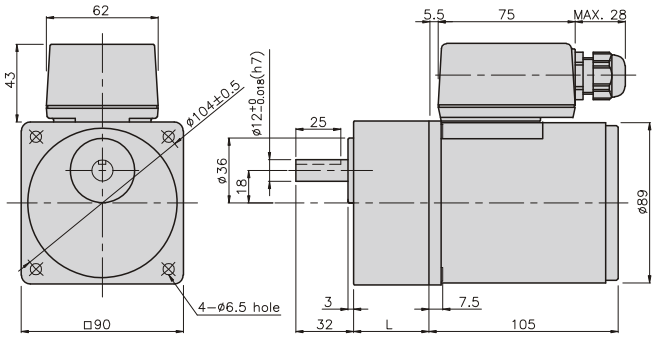
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9IG40N□-T + K9G□B(C)



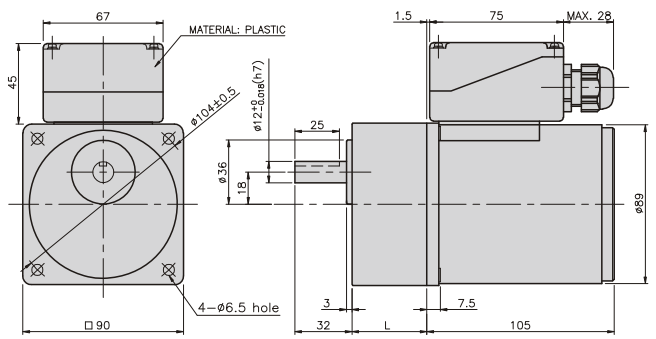
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9IG40N□-T5 + K9G□B(C)



REVERSIBLE MOTOR

40W □90mm

LEAD WIRE TYPE
TERMINAL BOX TYPE

K9RS40N□

K9RS40N□-T, T5

SPECIFICATIONS

40W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/ Kgf*Cm)	Rated T. (N*m/ Kgf*Cm)	Speed (rpm)	Condenser (μF)
K9R□40NJ(-T, -T5)	single-phase	100	50	1	0.3/3	0.315/3.15	1250	16
			60	1.13	0.33/3.3	0.255/2.55	1550	
K9R□40NU(-T, -T5)		110	60	0.8	0.2/2	0.26/2.6	1500	10
		115		0.83	0.22/2.2			
K9R□40NL(-T, -T5)		200	50	0.45	0.3/3	0.315/3.15	1250	4
			60	0.57		0.26/2.6	1500	
K9R□40NC(-T, -T5)		220	50	0.46	0.3/3	0.315/3.15	1250	3.5
			60	0.55	0.32/3.2	0.26/2.6	1500	
		230	50	0.55	0.4/4	0.315/3.15	1250	
			60	0.58	0.36/3.6	0.26/2.6	1500	
K9R□40ND(-T, -T5)		240	50	0.41	0.34/3.4	0.3/3	1300	3

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

RATED TORQUE OF GEARHEAD

● 50Hz

unit = above : N·m / below : kgfcm

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
K9R□40N□(-T, -T5)		0.73	0.87	1.22	1.46	1.82	2.19	2.43	3.04	3.65	4.37	4.37	5.47	6.56	7.87	8.75	10	10	10	10	10	10	10	10	10
K9G□B(C)		7.3	8.7	12.2	14.6	18.2	21.9	24.3	30.4	36.5	43.7	43.7	54.7	65.6	78.7	87.5	100	100	100	100	100	100	100	100	100

● 60Hz

unit = above : N·m / below : kgfcm

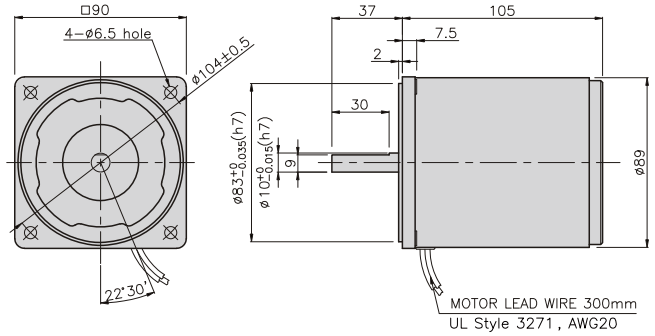
Model	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
Motor/ Gearhead	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9R□40N□(-T, -T5)		0.62	0.74	1.03	1.24	1.55	1.86	2.07	2.58	3.10	3.72	3.72	4.65	5.58	6.69	7.44	8.37	10	10	10	10	10	10	10	10
K9G□B(C)		6.2	7.4	10.3	12.4	15.5	18.6	20.7	25.8	31.0	37.2	37.2	46.5	55.8	66.9	74.4	83.7	100	100	100	100	100	100	100	100

* 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 10N·m/100kgfcm.
* 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.

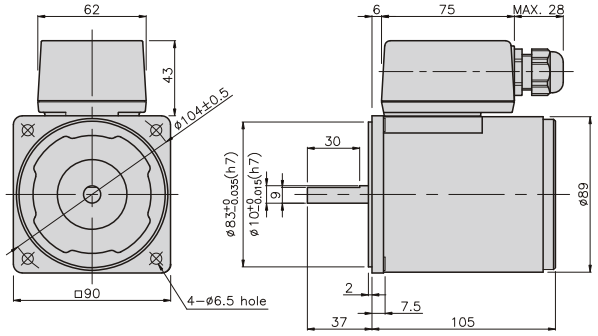
GEARHEADS

DIMENSIONS

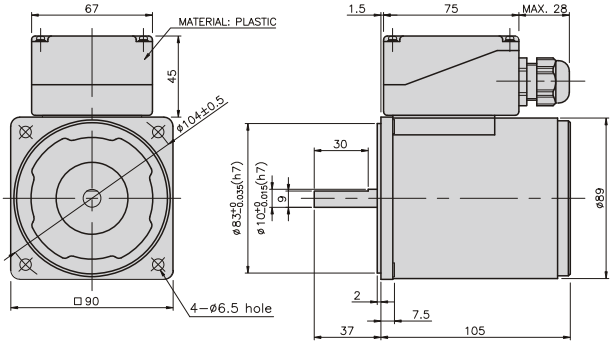
K9RS40N□



K9RS40N□-T

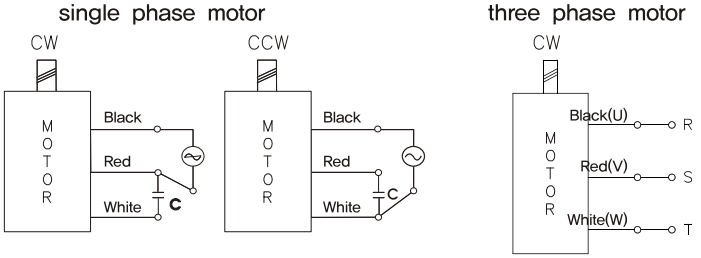


K9RS40N□-T5



CONNECTION DIAGRAMS

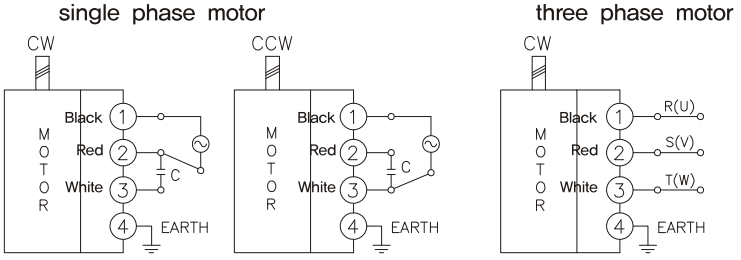
K9RS40N□

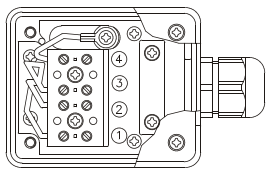


connecting two leadwires of U,V,W in turns

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

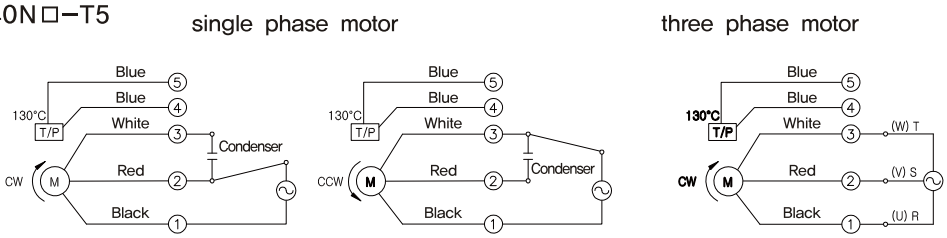
K9RS40N□-T



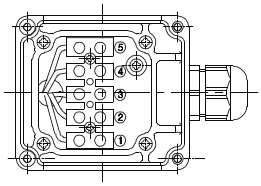


The direction of motor rotation is as viewed from the front shaft end of the motor

K9RS40N□-T5



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

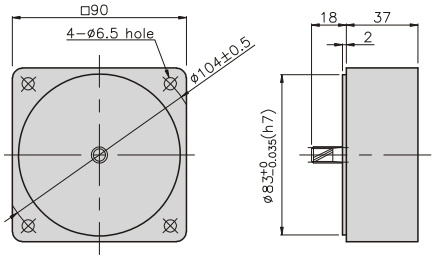
GEARHEADS

DIMENSIONS

K9G□B(C)

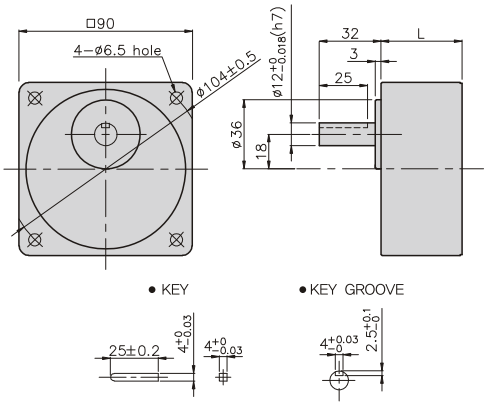
DECIMAL GEARHEAD

K9G10BX



GEAR HEAD

K9G□B(C)



GEARHEADS

DIMENSIONS

K9RG40N□ + K9G□B(C)

K9RG40N□–T(–T5) + K9G□B(C)

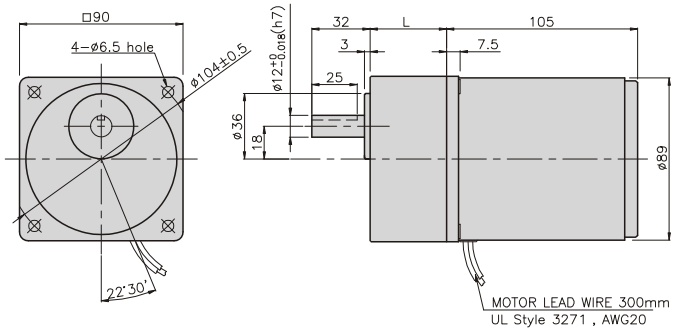
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.36
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9RG40N□ + K9G□B(C)



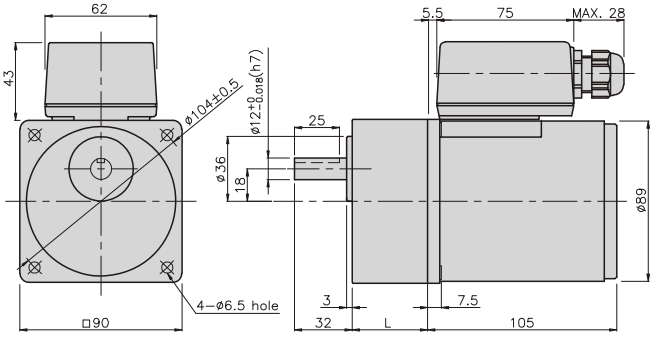
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9RG40N□–T + K9G□B(C)



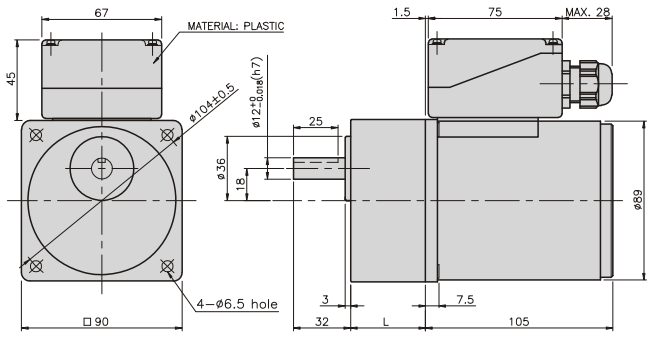
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

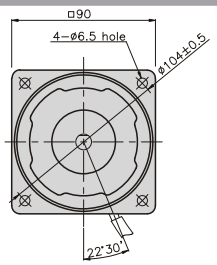
K9RG40N□–T5 + K9G□B(C)

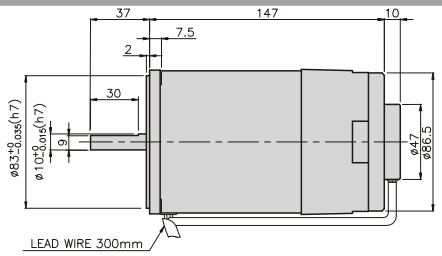


SPEED CONTROL & BRAKE MOTOR

40W □90mm

K9RS40N□-D





SPECIFICATIONS

40W 30 minutes 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)	Friction T. (N∗m/ Kgf∗Cm)
K9R□40NJ-D	single-phase	100	50	90 ~ 1400	0.3/3	0.075/0.75	0.17/1.7	1.5	16	1/10
			60	90 ~ 1700			0.18/1.8	1.6		
K9R□40NU-D		110	60	90 ~ 1700	0.3/3	0.075/0.75	0.14/1.4	1.5	10	1/10
		115						1.3		
K9R□40NL-D		200	50	90 ~ 1400	0.33/3.3	0.07/0.7	0.17/1.7	0.65	4	1/10
			60	90 ~ 1700	0.26/2.6			0.72		
K9R□40NC-D		220	50	90 ~ 1400	0.33/3.3	0.07/0.7	0.17/1.7	0.6	3.5	1/10
			60	90 ~ 1700	0.26/2.6		0.16/1.6	0.64		
		230	50	90 ~ 1400	0.33/3.3		0.17/1.7	0.6		
			60	90 ~ 1700	0.26/2.6		0.16/1.6	0.64		
K9R□40ND-D		240	50	90 ~ 1400	0.33/3.3	0.07/0.7	0.16/1.6	0.63	3	1/10

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

RATED TORQUE OF GEARHEAD

● Single-phase 100V/115V

unit = above : N · m / below : kgfcm

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
K9R□40N□-D K9G□B(C)	1200	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	3.04 30.4	3.65 36.5	4.37 43.7	4.37 43.7	5.47 54.7	6.56 65.6	7.87 78.7	8.75 87.5	9.84 98.4	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90	0.18 1.8	0.22 2.2	0.30 3.0	0.36 3.6	0.46 4.6	0.55 5.5	0.61 6.1	0.76 7.6	0.91 9.1	1.09 10.9	1.09 10.9	1.37 13.7	1.64 16.4	1.97 19.7	2.19 21.9	2.46 24.6	2.95 29.5	3.69 36.9	4.43 44.3	4.92 49.2	5.90 59.0	7.38 73.8	8.86 88.6	10 100

● Single-phase 200V/240V

unit = above : N · m / below : kgfcm

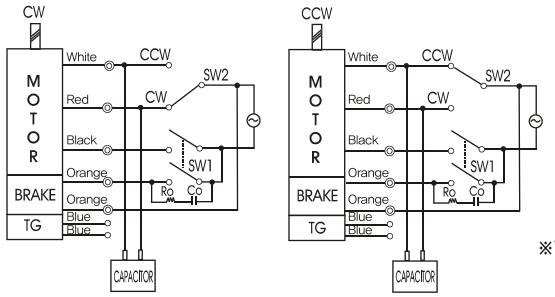
Model / Motor/Gearhead	Ratio / Speed(rpm)		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9R□40N□-D K9G□B(C)	1200	200V/220V/230V 240V/50Hz	0.80 8.0	0.96 9.6	1.34 13.4	1.60 16.0	2.00 20.0	2.41 24.1	2.67 26.7	3.34 33.4	4.01 40.1	4.81 48.1	4.81 48.1	6.01 60.1	7.22 72.2	8.66 86.6	9.62 96.2	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
		200V/220V 230V/60Hz	0.63 6.3	0.76 7.6	1.05 10.5	1.26 12.6	1.58 15.8	1.90 19.0	2.11 21.1	2.63 26.3	3.16 31.6	3.79 37.9	3.79 37.9	4.74 47.4	5.69 56.9	6.82 68.2	7.58 75.8	8.53 85.3	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90		0.17 1.7	0.20 2.0	0.28 2.8	0.34 3.4	0.43 4.3	0.51 5.1	0.57 5.7	0.71 7.1	0.85 8.5	1.02 10.2	1.02 10.2	1.28 12.8	1.53 15.3	1.84 18.4	2.04 20.4	2.30 23.0	2.76 27.6	3.44 34.4	4.13 41.3	4.59 45.9	5.51 55.1	6.89 68.9	8.27 82.7	9.19 91.9

* 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 10N · m/100kgfcm.
* 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

Connect Cr circuit for absorbing serge voltage as connection diagram to protect contact point.
Ro = 5 – 200Ω
Co = 0.1 ~ 0.2μF 200WV(400WV)



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

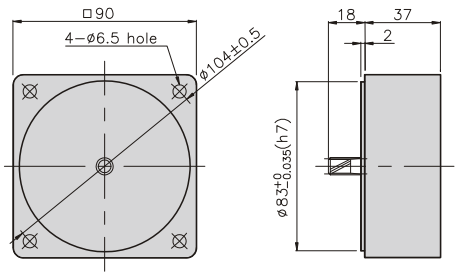
DIMENSIONS

K9G□B(C)

K9RG40N□–D + K9G□B(C)

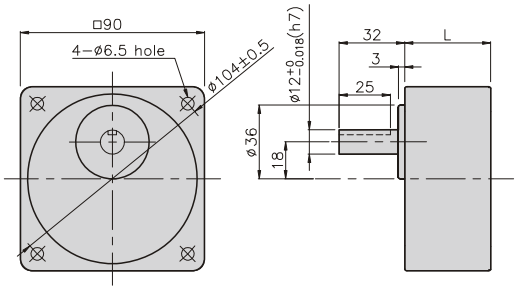
DECIMAL GEARHEAD

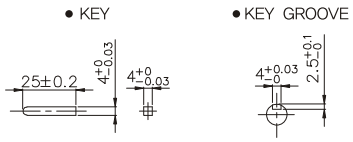
K9G10BX



GEARHEAD

K9G□B(C)





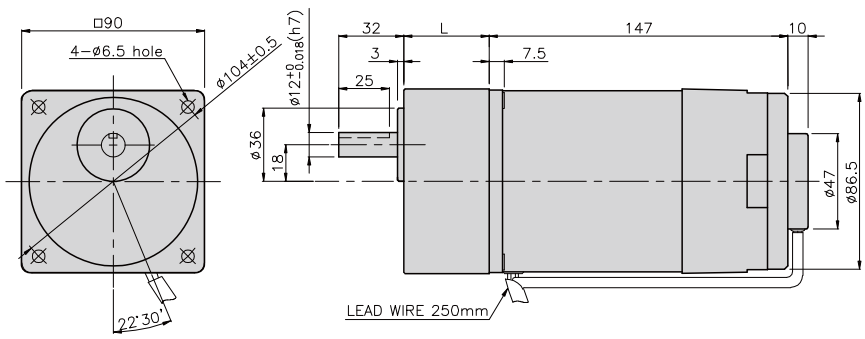
DIMENSION TABLE

PART No.	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.98
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

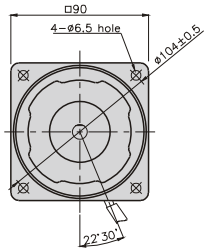
K9RG40N□–D + K9G□B(C)

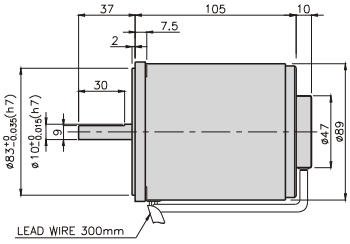


SPEED CONTROL MOTOR - SP SERIES

40W □90mm INDUCTION MOTOR

K9IS40N□-SP





SPECIFICATIONS

40W 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□40NJ-SP	single-phase	100	50	90 ~ 1400	0.26/2.6	0.07/0.7	0.14/1.4	1.3	12
			60	90 ~ 1700					
K9I□40NU-SP		110	60	90 ~ 1700	0.26/2.6	0.07/0.7	0.13/1.3	1.1	8
		115							
K9I□40NL-SP		200	50	90 ~ 1400	0.3/3	0.063/0.63	0.14/1.4	0.6	3
			60	90 ~ 1700	0.23/2.3			0.62	
K9I□40NC-SP		220	50	90 ~ 1400	0.3/3	0.063/0.63	0.14/1.4	0.58	2.5
			60	90 ~ 1700	0.23/2.3		0.13/1.3	0.62	
		230	50	90 ~ 1400	0.3/3		0.14/1.4	0.6	
			60	90 ~ 1700	0.23/2.3		0.13/1.3	0.62	
K9I□40ND-SP		240	50	90 ~ 1400	0.3/3	0.063/0.63	0.13/1.3	0.6	2

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

RATED TORQUE OF GEARHEAD

● Single-phase 100V/115V

unit = above : N · m / below : kgfcm

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□40N□-SP K9G□B(C)	1200	0.63 6.3	0.76 7.6	1.05 10.5	1.26 12.6	1.58 15.8	1.90 19.0	2.11 21.1	2.63 26.3	3.16 31.6	3.79 37.9	3.79 37.9	4.74 47.4	5.69 56.9	6.82 68.2	7.58 75.8	8.53 85.3	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90	0.17 1.7	0.20 2.0	0.28 2.8	0.34 3.4	0.43 4.3	0.51 5.1	0.57 5.7	0.71 7.1	0.85 8.5	1.02 10.2	1.02 10.2	1.28 12.8	1.53 15.3	1.84 18.4	2.04 20.4	2.30 23.0	2.76 27.6	3.44 34.4	4.13 41.3	4.59 45.9	5.51 55.1	6.89 68.9	8.27 82.7	9.19 91.9

● Single-phase 200V/240V

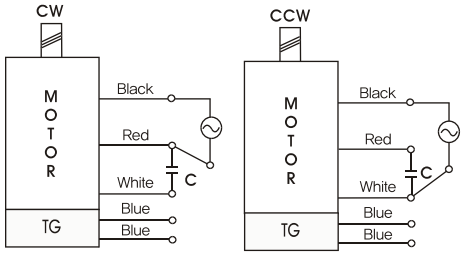
unit = above : N · m / below : kgfcm

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□40N□-SP K9G□B(C)	1200	200V/220V/ 230V/240V 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	3.04 30.4	3.65 36.5	4.37 43.7	4.37 43.7	5.47 54.7	6.56 65.6	7.87 78.7	8.75 87.5	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
		200V/220V/ 230V/240V 60Hz	0.56 5.6	0.67 6.7	0.93 9.3	1.12 11.2	1.40 14.0	1.68 16.8	1.86 18.6	2.33 23.3	2.79 27.9	3.35 33.5	3.35 33.5	4.19 41.9	5.03 50.3	6.04 60.4	6.71 67.1	8.38 83.8	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90		0.15 1.5	0.18 1.8	0.26 2.6	0.31 3.1	0.38 3.8	0.46 4.6	0.51 5.1	0.64 6.4	0.77 7.7	0.92 9.2	0.92 9.2	1.15 11.5	1.38 13.8	1.65 16.5	1.84 18.4	2.07 20.7	2.48 24.8	3.10 31.0	3.72 37.2	4.13 41.3	4.96 49.6	6.20 62.0	7.44 74.4	8.27 82.7

* 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 10N · m/100kgfcm.
* 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



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

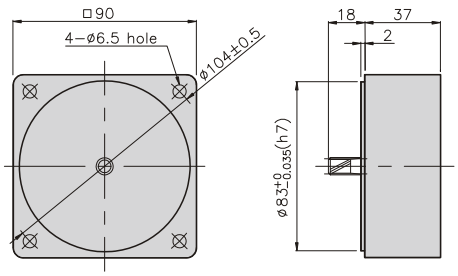
DIMENSIONS

K9G□B(C)

K9IG40N□-SP + K9G□B(C)

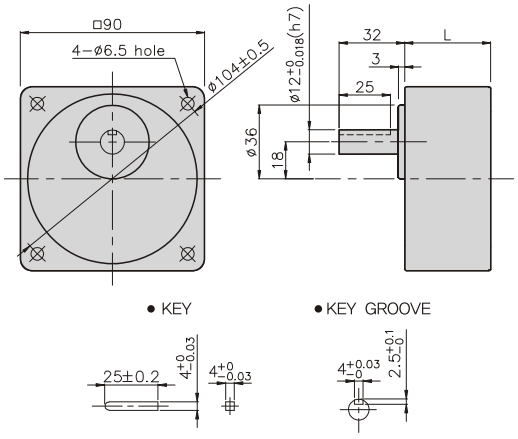
DECIMAL GEARHEAD

K9G10BX



GEARHEAD

K9G□B(C)



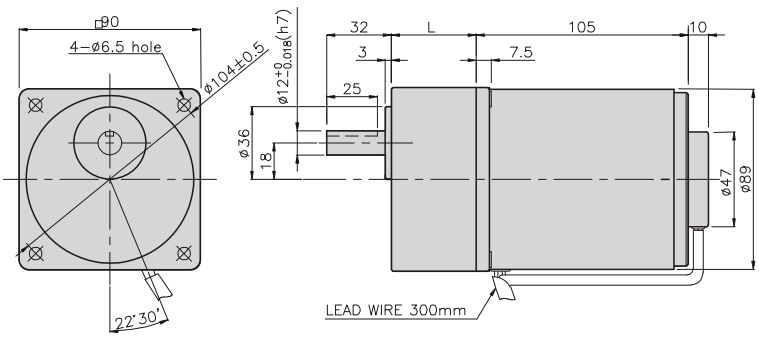
DIMENSION TABLE

PART No.	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.48
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

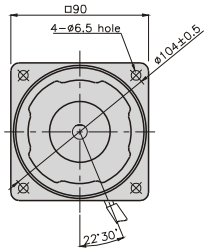
K9IG40N□-SP + K9G□B(C)

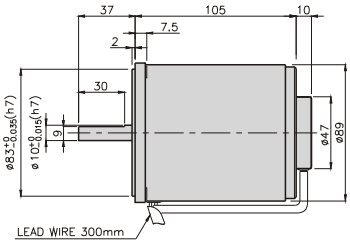


SPEED CONTROL MOTOR - SP SERIES

40W □90mm REVERSIBLE MOTOR

K9RS40N□-SP





SPECIFICATIONS

40W 30 minutes 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)
K9R□40NJ-SP	single-phase	100	50	90 ~ 1400	0.3/3	0.075/0.75	0.17/1.7	1.5	16
			60	90 ~ 1700			0.18/1.8	1.6	
K9R□40NU-SP		110	60	90 ~ 1700	0.3/3	0.070/75	0.14/1.4	1.5	10
		115						1.3	
K9R□40NL-SP		200	50	90 ~ 1400	0.33/3.3	0.07/0.7	0.17/1.7	0.65	4
			60	90 ~ 1700	0.26/2.6			0.72	
K9R□40NC-SP		220	50	90 ~ 1400	0.33/3.3	0.07/0.7	0.17/1.7	0.6	3.5
			60	90 ~ 1700	0.26/2.6		0.16/1.6	0.64	
		230	50	90 ~ 1400	0.33/3.3		0.17/1.7	0.6	
			60	90 ~ 1700	0.26/2.6		0.16/1.6	0.64	
K9R□40ND-SP		240	50	90 ~ 1400	0.33/3.3	0.07/0.7	0.16/1.6	0.63	3

∗ □ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

RATED TORQUE OF GEARHEAD

● Single-phase 100V/115V

unit = above : N · m / below : kgfcm

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
K9R□40N□-SP K9G□B(C)	1200	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	3.04 30.4	3.65 36.5	4.37 43.7	4.37 43.7	5.47 54.7	6.56 65.6	7.87 78.7	8.75 87.5	9.84 98.4	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90	0.18 1.8	0.22 2.2	0.30 3.0	0.36 3.6	0.46 4.6	0.55 5.5	0.61 6.1	0.76 7.6	0.91 9.1	1.09 10.9	1.09 10.9	1.37 13.7	1.64 16.4	1.97 19.7	2.19 21.9	2.46 24.6	2.95 29.5	3.69 36.9	4.43 44.3	4.92 49.2	5.90 59.0	7.38 73.8	8.86 88.6	10 100

● Single-phase 200V/240V

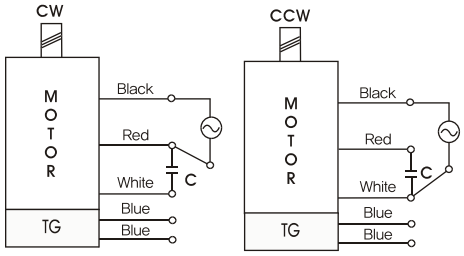
unit = above : N · m / below : kgfcm

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
K9R□40N□-SP K9G□B(C)	1200	200V/220V/230V 240V/50Hz	0.80 8.0	0.96 9.6	1.34 13.4	1.60 16.0	2.00 20.0	2.41 24.1	2.67 26.7	3.34 33.4	4.01 40.1	4.81 48.1	4.81 48.1	6.01 60.1	7.22 72.2	8.66 86.6	9.62 96.2	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
		200V/220V 230V/60Hz	0.63 6.3	0.76 7.6	1.05 10.5	1.26 12.6	1.58 15.8	1.90 19.0	2.11 21.1	2.63 26.3	3.16 31.6	3.79 37.9	3.79 37.9	4.74 47.4	5.69 56.9	6.82 68.2	7.58 75.8	8.53 85.3	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90		0.17 1.7	0.20 2.0	0.28 2.8	0.34 3.4	0.43 4.3	0.51 5.1	0.57 5.7	0.71 7.1	0.85 8.5	1.02 10.2	1.02 10.2	1.28 12.8	1.53 15.3	1.84 18.4	2.04 20.4	2.30 23.0	2.76 27.6	3.44 34.4	4.13 41.3	4.59 45.9	5.51 55.1	6.89 68.9	8.27 82.7	9.19 91.9

∗ 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 10N · m/100kgfcm.
∗ 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



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

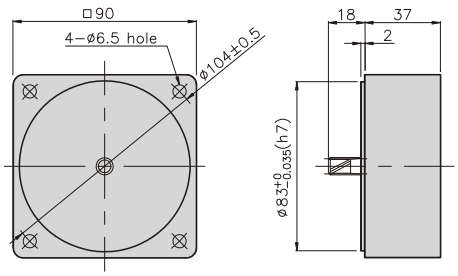
DIMENSIONS

K9G□B(C)

K9RG40N□-SP + K9G□B(C)

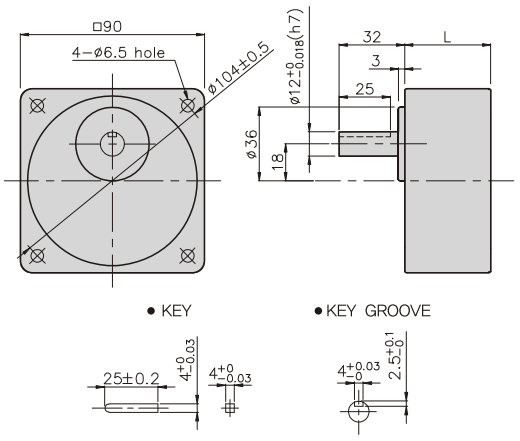
DECIMAL GEARHEAD

K9G10BX



GEARHEAD

K9G□B(C)



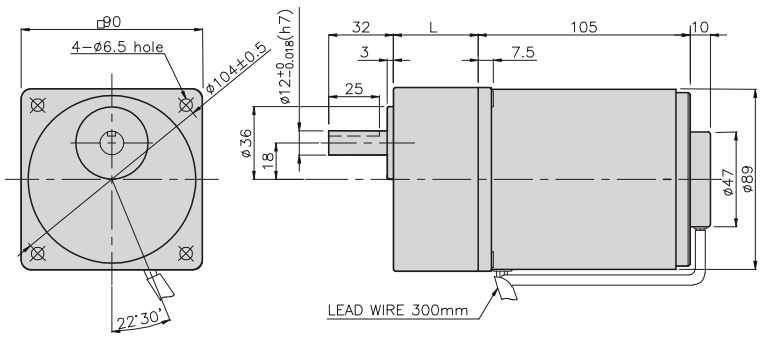
DIMENSION TABLE

PART No.	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.48
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

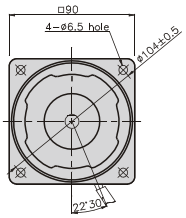
K9RG40N□-SP + K9G□B(C)

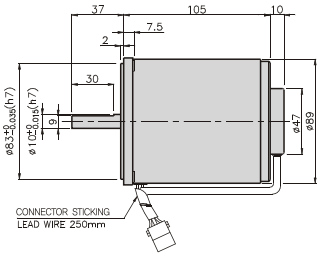


SPEED CONTROL MOTOR - SU SERIES

40W □90mm

K9□S40N□–SU





SPECIFICATIONS

40W 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□40NJ–SU	single–phase	100	50	90 ~ 1400	0.26/2.6	0.07/0.7	0.14/1.4	1.3	12
			60	90 ~ 1700					
K9I□40NU–SU		110	60	90 ~ 1700	0.26/2.6	0.07/0.7	0.13/1.3	1.1	8
		115							
K9I□40NL–SU		200	50	90 ~ 1400	0.3/3	0.063/0.63	0.14/1.4	0.6	3
			60	90 ~ 1700	0.23/2.3			0.62	
K9I□40NC–SU		220	50	90 ~ 1400	0.3/3	0.063/0.63	0.14/1.4	0.58	2.5
			60	90 ~ 1700	0.23/2.3		0.13/1.3	0.62	
		230	50	90 ~ 1400	0.3/3		0.14/1.4	0.6	
			60	90 ~ 1700	0.23/2.3		0.13/1.3	0.62	
K9I□40ND–SU		240	50	90 ~ 1400	0.3/3	0.063/6.3	0.13/1.3	0.6	2

∗ □ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

RATED TORQUE OF GEARHEAD

● Single–phase 100V/115V

unit = above : N · m / below : kgfcm

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□40N□–SU K9G□B(C)	1200	0.63 6.3	0.76 7.6	1.05 10.5	1.26 12.6	1.58 15.8	1.90 19.0	2.11 21.1	2.63 26.3	3.16 31.6	3.79 37.9	3.79 37.9	4.74 47.7	5.69 56.9	6.82 68.2	7.58 75.8	8.53 58.3	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90	0.17 1.7	0.20 2.0	0.28 2.8	0.34 3.4	0.43 4.3	0.51 5.1	0.57 5.7	0.71 7.1	0.85 8.5	1.02 10.2	1.02 10.2	1.28 12.8	1.53 15.3	1.84 18.4	2.04 20.4	2.30 23.0	2.76 27.6	3.44 34.4	4.13 41.3	4.59 45.9	5.51 55.1	6.89 68.9	8.27 82.7	9.19 91.9

● Single–phase 200V/240V

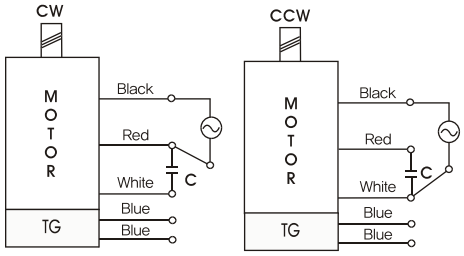
unit = above : N · m / below : kgfcm

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□40N□–SU K9G□B(C)	1200	200V/220V/ 230V/240V/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	3.04 30.4	3.65 36.5	4.37 43.7	4.37 43.7	5.47 54.7	6.56 65.6	7.87 78.7	8.75 87.5	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
		200V/220V/ 230V/60Hz	0.56 5.6	0.67 6.7	0.93 9.3	1.12 11.2	1.40 14.0	1.68 16.8	1.86 18.6	2.33 23.3	2.79 27.9	3.35 33.5	3.35 33.5	4.19 41.9	5.03 50.3	6.04 60.4	6.71 67.1	8.38 83.8	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100	10 100
	90		0.15 1.5	0.18 1.8	0.26 2.6	0.31 3.1	0.38 3.8	0.46 4.6	0.51 5.1	0.64 6.4	0.77 7.7	0.92 9.2	0.92 9.2	1.15 11.5	1.38 13.8	1.65 16.5	1.84 18.4	2.07 20.7	2.48 24.8	3.10 31.0	3.72 37.2	4.13 41.3	4.96 49.6	6.20 62.0	7.44 74.4	8.27 82.7

∗ 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 10N · m/100kgfcm.
∗ 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



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

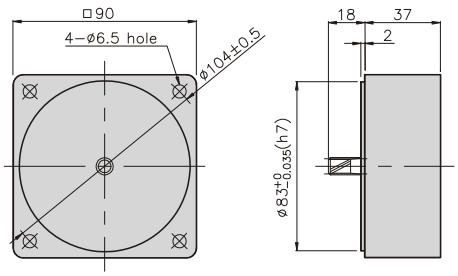
DIMENSIONS

K9G□B(C)

K9IG40N□-SU + K9G□B(C)

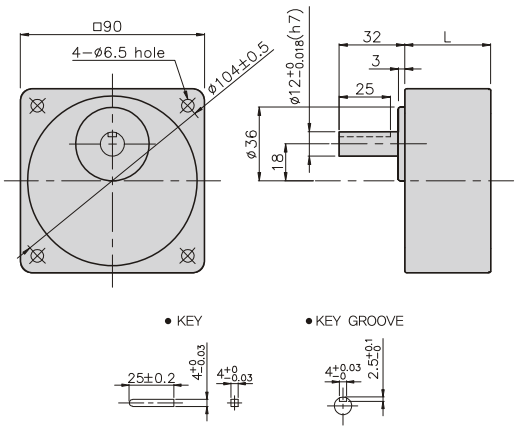
DECIMAL GEARHEAD

K9G10BX



GEARHEAD

K9G□B(C)



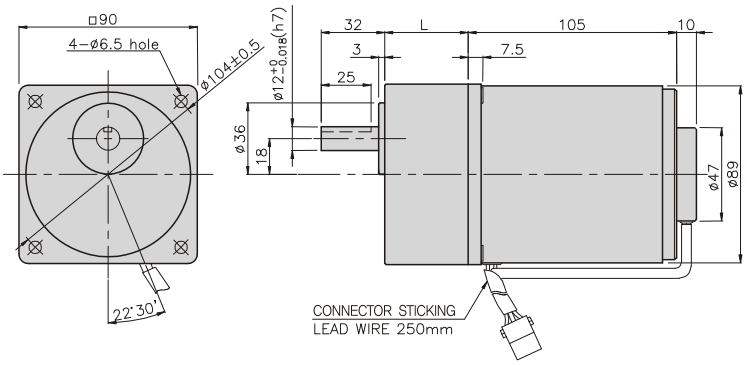
DIMENSION TABLE

PART No.	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.48
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9IG40N□-SU + K9G□B(C)



INDUCTION MOTOR

40W □90mm LEAD WIRE TYPE TERMINAL BOX TYPE

K9IS40N□

K9IS40N□–T, T5

SPECIFICATIONS

40W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N∗m/ Kgf∗Cm)	Rated T. (N∗m/ Kgf∗Cm)	Speed (rpm)	Condenser (μF)
K9I□40NJ(–T, –T5)	single–phase	100	50	0.86	0.21/2.1	0.315/3.15	1250	12
			60	0.84	0.22/2.2	0.255/2.55	1550	
K9I□40NU(–T, –T5)		110	60	0.65	0.19/1.9	0.255/2.55	1550	8
		115		0.68	0.2/2			
K9I□40NL(–T, –T5)		200	50	0.4	0.22/2.2	0.315/3.15	1250	3
			60	0.41		0.255/2.55	1550	
K9I□40NC(–T, –T5)		220	50	0.38	0.24/2.4	0.315/3.15	1250	2.5
			60	0.37		0.255/2.55	1550	
		230	50	0.4	0.26/2.6	0.315/3.15	1250	
			60	0.38		0.255/2.55	1550	
K9I□40ND(–T, –T5)		240	50	0.39	0.2/2	0.3/3	1300	2
K9I□40NT(–T, –T5)	three–phase	200	50	0.39	1/10	0.3/3	1300	–
			60	0.32	0.78/7.8	0.245/2.45	1600	
K9I□40NH(–T, –T5)		220	50	0.33	0.95/9.5	0.29/2.9	1350	–
			60	0.31	0.78/7.8	0.245/2.45	1600	
		230	50	0.41	1/10	0.29/2.9	1350	
			60	0.32	0.83/8.3	0.245/2.45	1600	
K9I□40NM(–T, –T5)		380	50	0.18	1/10	0.29/2.9	1350	–
			60		0.78/7.8	0.245/2.45	1600	
K9I□40NV(–T, –T5)		400	50	0.18	1.15/11.5	0.29/2.9	1350	–
			60	0.19	0.88/8.8	0.245/2.45	1600	
K9I□40NQ(–T, –T5)		415	50	0.16	0.95/9.5	0.29/2.9	1350	–
			60	0.14	0.72/7.2	0.245/2.45	1600	
K9I□40NZ(–T, –T5)		440	50	0.19	1/10	0.29/2.9	1350	–
			60	0.16	0.79/7.9	0.245/2.45	1600	

∗□ : SHAFT SHAPE (S : STRAIGHT, G : PINION)

RATED TORQUE OF GEARHEAD

● 50Hz

unit = above : N · m / below : kgfcm

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
K9I□40N□(–T, –T5)		0.70	0.85	1.17	1.41	1.76	2.11	2.35	2.94	3.52	4.23	4.23	5.29	6.34	7.61	8.46	10	10	10	10	10	10	10	10	10
K9G□B(C)		7.0	8.5	11.7	14.1	17.6	21.1	23.5	29.4	35.2	42.3	42.3	52.9	63.4	76.1	84.6	100	100	100	100	100	100	100	100	100

● 60Hz

unit = above : N · m / below : kgfcm

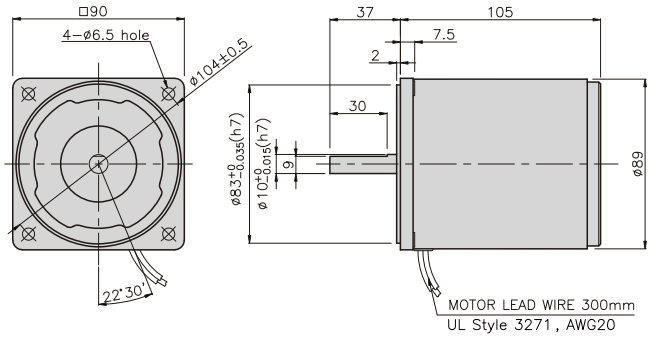
Model	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
Motor/ Gearhead	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9I□40N□(–T, –T5)		0.60	0.71	0.99	1.19	1.49	1.79	1.98	2.48	2.98	3.57	3.57	4.47	5.36	6.43	7.14	8.04	10	10	10	10	10	10	10	10
K9G□B(C)		6.0	7.1	9.9	11.9	14.9	17.9	19.8	24.8	29.8	35.7	35.7	44.7	53.6	64.3	71.4	80.4	100	100	100	100	100	100	100	100

* 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 10N · m/100kgfcm.
* 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.

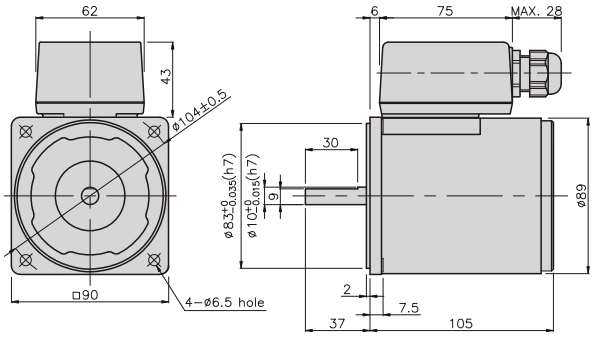
GEARHEADS

DIMENSIONS

K9IS40N□



K9IS40N□-T



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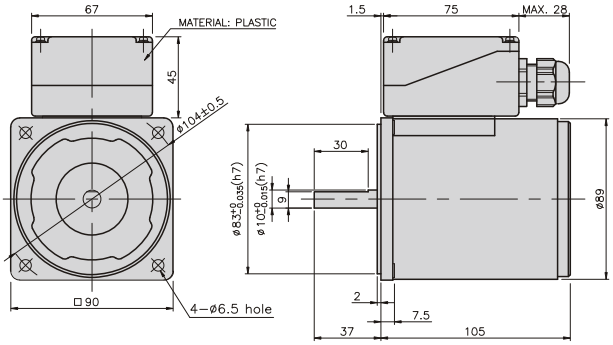
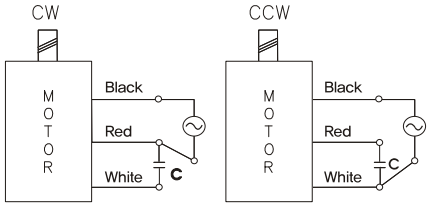


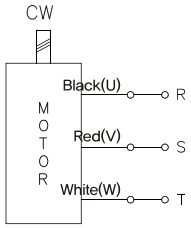
CONNECTION DIAGRAMS

K9IS40N□

single phase motor



three phase motor

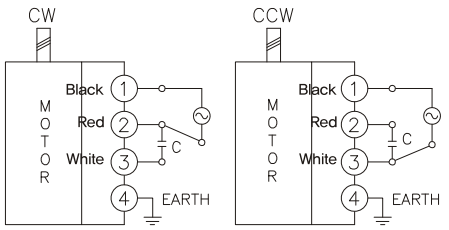


connecting two leadwires of U,V,W in turns

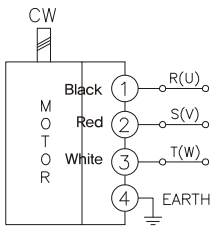
The direction of motor rotation is as viewed from the front shaft end of the motor

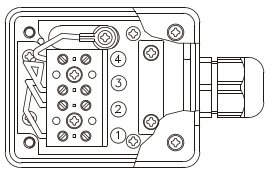
K9IS40N□-T

single phase motor



three phase motor

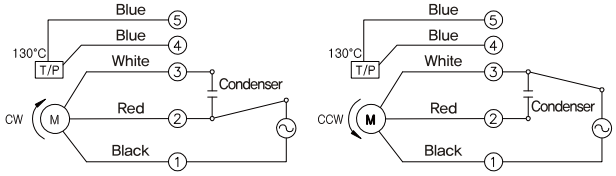




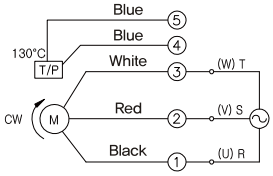
The direction of motor rotation is as viewed from the front shaft end of the motor

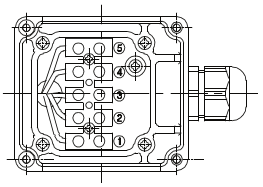
K9IS40N□-T5

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

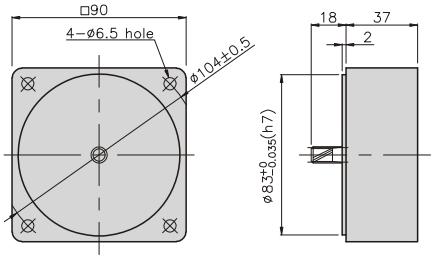
GEARHEADS

DIMENSIONS

K9G□B(C)

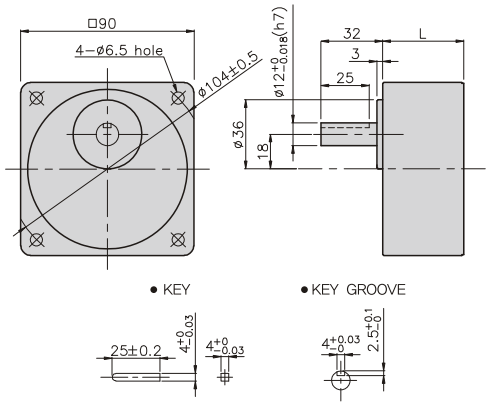
DECIMAL GEARHEAD

K9G10BX



GEAR HEAD

K9G□B(C)



GEARHEADS

DIMENSIONS

K9IG40N□ + K9G□B(C)

K9IG40N□-T(T5) + K9G□B(C)

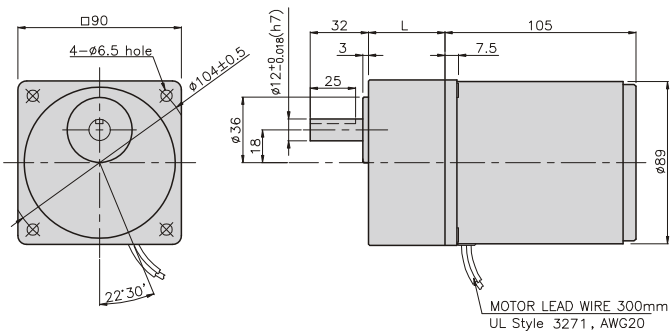
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.36
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9IG40N□ + K9G□B(C)



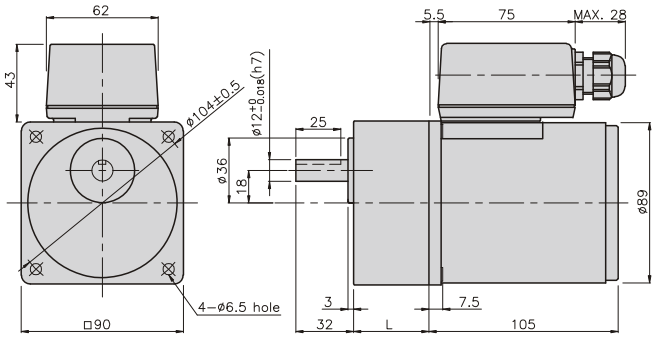
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9IG40N□-T + K9G□B(C)



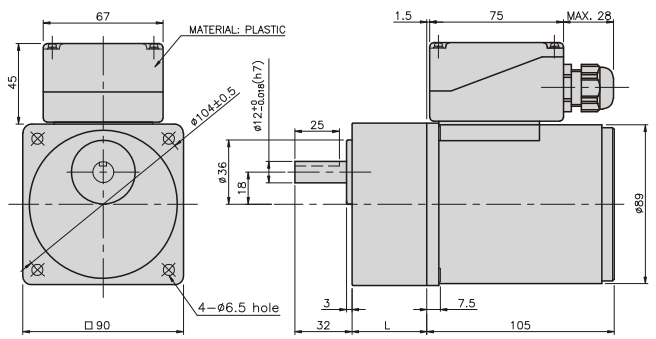
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9IG40N□-T5 + K9G□B(C)



REVERSIBLE MOTOR

40W □90mm

LEAD WIRE TYPE
TERMINAL BOX TYPE

K9RS40N□

K9RS40N□-T, T5

SPECIFICATIONS

40W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T. (N*m/ Kgf*Cm)	Rated T. (N*m/ Kgf*Cm)	Speed (rpm)	Condenser (μF)
K9R□40NJ(-T, -T5)	single-phase	100	50	1	0.3/3	0.315/3.15	1250	16
			60	1.13	0.33/3.3	0.255/2.55	1550	
K9R□40NU(-T, -T5)		110	60	0.8	0.2/2	0.26/2.6	1500	10
		115		0.83	0.22/2.2			
K9R□40NL(-T, -T5)		200	50	0.45	0.3/3	0.315/3.15	1250	4
			60	0.57		0.26/2.6	1500	
K9R□40NC(-T, -T5)		220	50	0.46	0.3/3	0.315/3.15	1250	3.5
			60	0.55	0.32/3.2	0.26/2.6	1500	
		230	50	0.55	0.4/4	0.315/3.15	1250	
			60	0.58	0.36/3.6	0.26/2.6	1500	
K9R□40ND(-T, -T5)		240	50	0.41	0.34/3.4	0.3/3	1300	3

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

RATED TORQUE OF GEARHEAD

● 50Hz

unit = above : N·m / below : kgfcm

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
K9R□40N□(-T, -T5)		0.73	0.87	1.22	1.46	1.82	2.19	2.43	3.04	3.65	4.37	4.37	5.47	6.56	7.87	8.75	10	10	10	10	10	10	10	10	10
K9G□B(C)		7.3	8.7	12.2	14.6	18.2	21.9	24.3	30.4	36.5	43.7	43.7	54.7	65.6	78.7	87.5	100	100	100	100	100	100	100	100	100

● 60Hz

unit = above : N·m / below : kgfcm

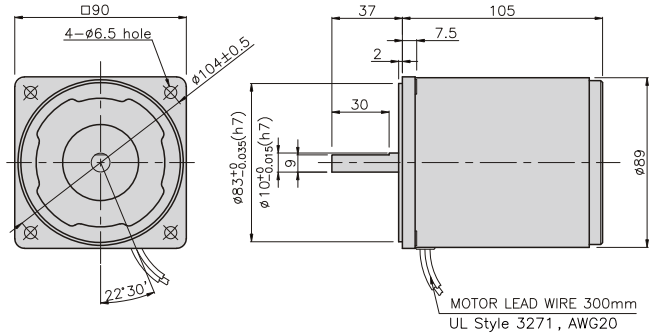
Model	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
Motor/ Gearhead	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9R□40N□(-T, -T5)		0.62	0.74	1.03	1.24	1.55	1.86	2.07	2.58	3.10	3.72	3.72	4.65	5.58	6.69	7.44	8.37	10	10	10	10	10	10	10	10
K9G□B(C)		6.2	7.4	10.3	12.4	15.5	18.6	20.7	25.8	31.0	37.2	37.2	46.5	55.8	66.9	74.4	83.7	100	100	100	100	100	100	100	100

* 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 10N·m/100kgfcm.
* 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.

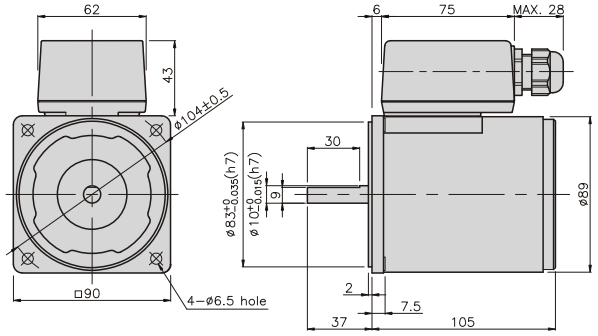
GEARHEADS

DIMENSIONS

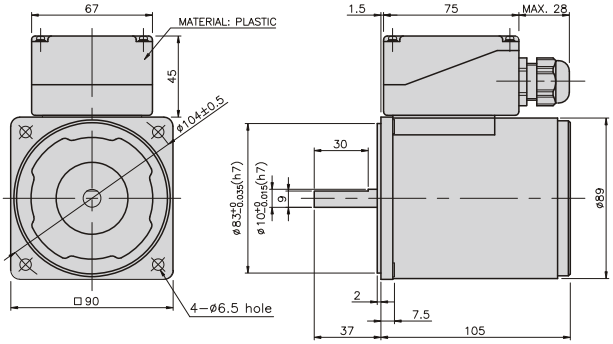
K9RS40N□



K9RS40N□-T

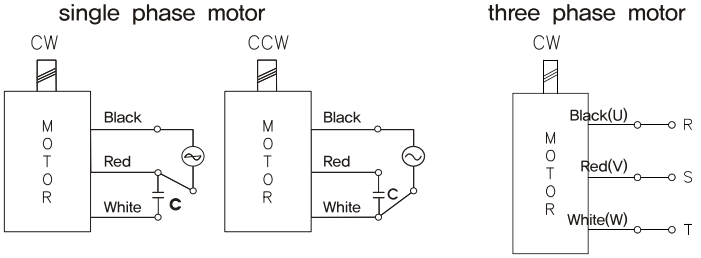


K9RS40N□-T5



CONNECTION DIAGRAMS

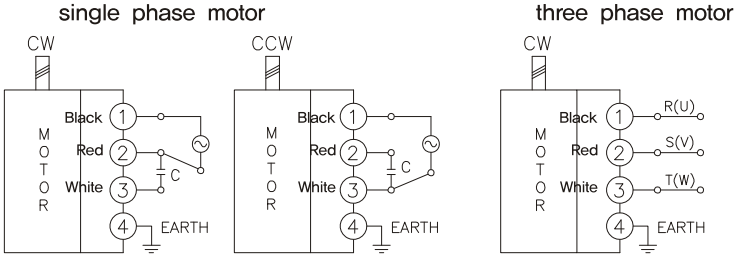
K9RS40N□

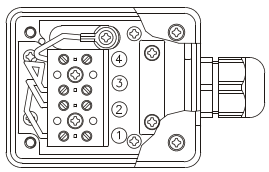


connecting two leadwires of U,V,W in turns

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

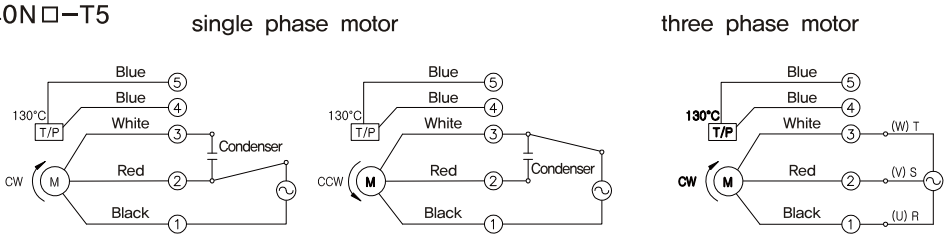
K9RS40N□-T



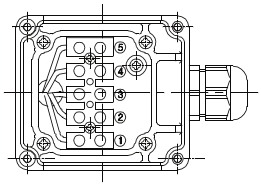


The direction of motor rotation is as viewed from the front shaft end of the motor

K9RS40N□-T5



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

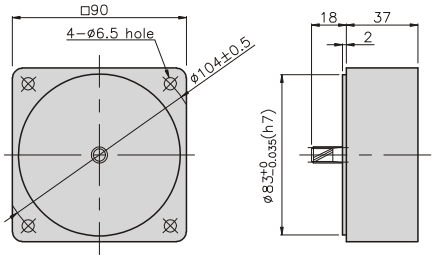
GEARHEADS

DIMENSIONS

K9G□B(C)

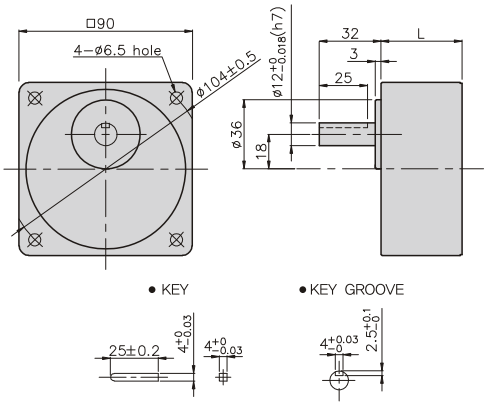
DECIMAL GEARHEAD

K9G10BX



GEAR HEAD

K9G□B(C)



GEARHEADS

DIMENSIONS

K9RG40N□ + K9G□B(C)

K9RG40N□–T(–T5) + K9G□B(C)

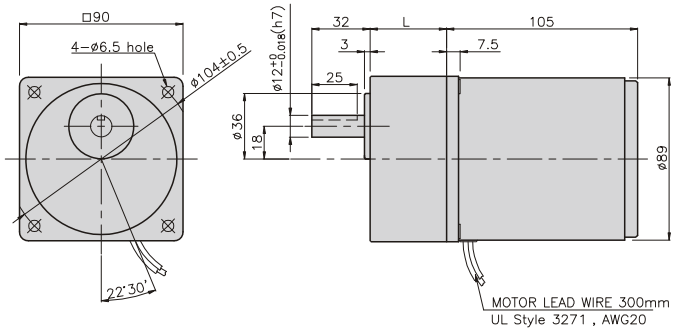
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M6 P1.0 X 65
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.36
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9RG40N□ + K9G□B(C)



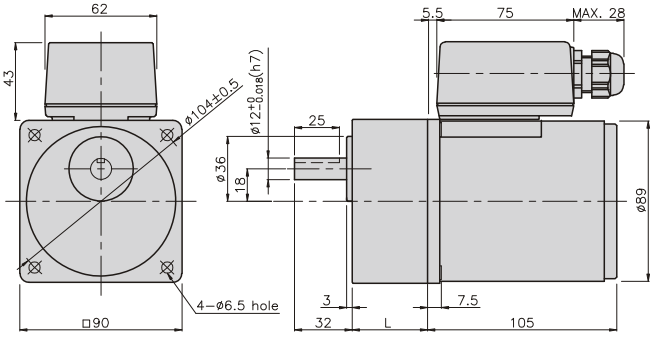
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9RG40N□–T + K9G□B(C)



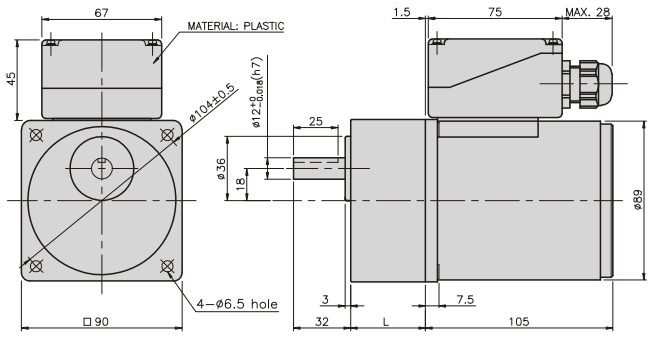
DIMENSION TABLE

PART No	L	Application Model	Mounting BOLT
01	42	K9G3~18B(C)	M5 P1.0 X 65
02	60	K9G20~200B(C)	M5 P1.0 X 80
03	37	K9G10BX	M5 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		2.52
DECIMAL GEAR HEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

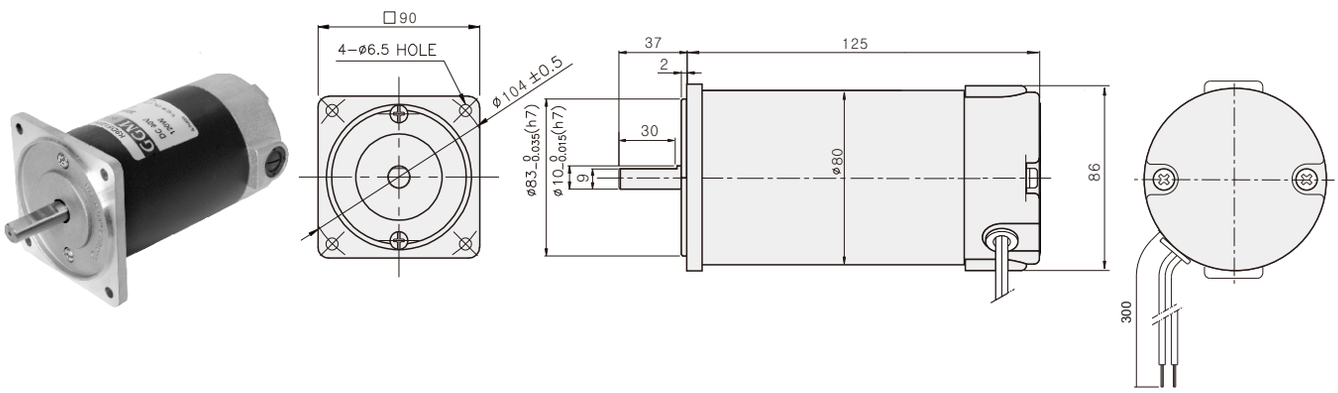
K9RG40N□–T5 + K9G□B(C)



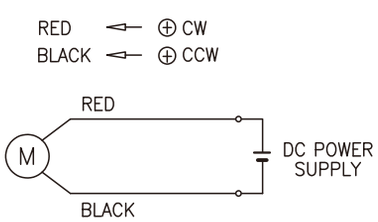
DC MOTOR

40W □90mm

DIMENSIONS



CONNECTION DIAGRAMS



SPECIFICATIONS

Model	Output (W)	Voltage (V)	RATED			Start T. (N·m/kgf·cm)	Starting Current (A)
			Speed (rpm)	Torque (N·m/kgf·cm)	Current (A)		
K9D□40N1	40	12	3000	0.13/1.3	6.1	1.43/14.3	64
K9D□40N2		24			3	1.82/18.2	40
K9D□40N3		90			0.9	1.44/14.4	9

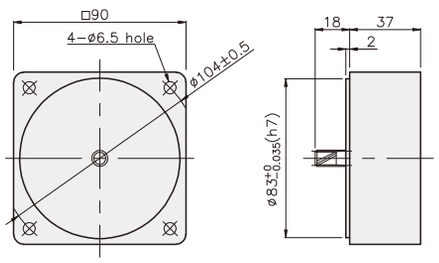
* □ : SHAFT SHAPE (S : STRAIGHT, G: PINION)

GEARHEAD

DIMENSIONS

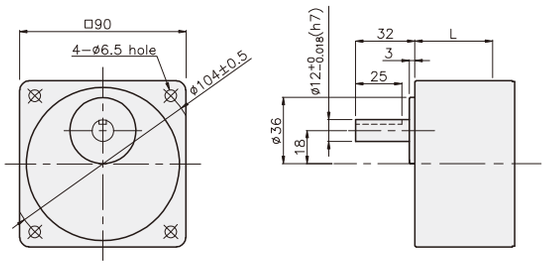
DECIMAL GEARHEAD

K9G10BX



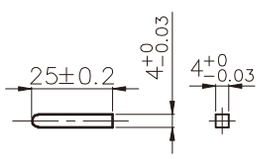
GEARHEAD

K9G□B(C)

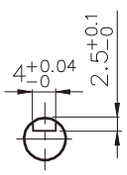


KEY SPEC

● KEY



● KEY GROOVE



DIMENSION TABLE

Part No	L	Application Model	Mounting BOLT
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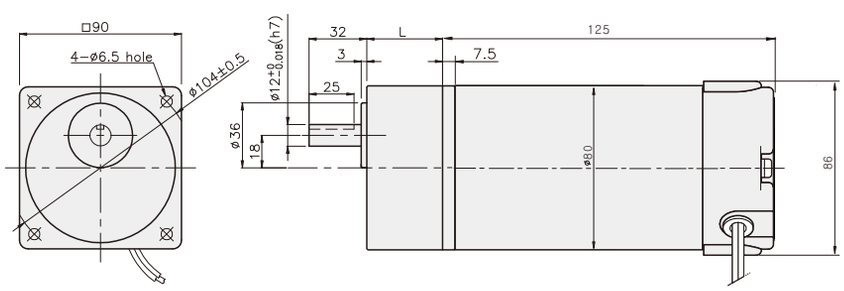
02	60	K9G20~200B(C)	M6 P1.0 X 80
03	37	K9G10BX	M6 P1.0 X 120

WEIGHT

PART		WEIGHT(kg)
MOTOR		1.88
K9G10BX		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

K9DG40N□ + K9G□B(C)



RATED TORQUE OF GEARHEAD

● K9G□B(C)

unit = above : N·m / below : kgf·cm

Model / Motor/ Gear head	Speed (rpm)	1000	833	600	500	400	333	300	240	200	167	150	120	100	83	75	60	50	40	33	30	25	20	17	15
	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
K9DG40N□		0.32 3.2	0.38 3.8	0.53 5.3	0.63 6.3	0.79 7.9	0.95 9.5	1.05 10.5	1.31 13.1	1.58 15.8	1.89 18.9	1.89 18.9	2.37 23.7	2.84 28.4	3.41 34.1	3.78 37.8	4.26 42.6	5.11 51.1	6.39 63.9	7.66 76.6	8.52 85.2	10 100	10 100	10 100	10 100

* 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, shich has one tenth of the ratio, between the gearhead and the motor. In this case, the permissible torque is 10 N·m / 100 kgf·cm.