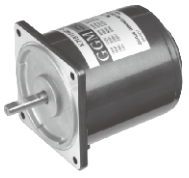
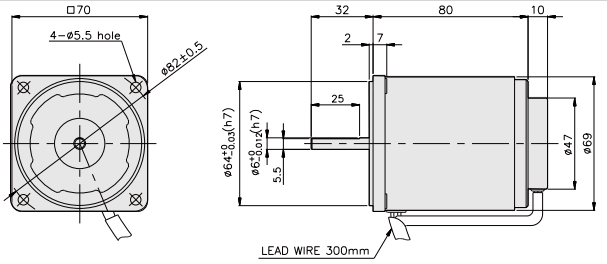
SPEED CONTROL MOTOR - SP SERIES

15W □70mm INDUCTION MOTOR

K7IS15N□-SP





SPECIFICATIONS

15W 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)
K7I□15NJ-SP	single-phase	100	50	90 ~ 1400	0.125/1.25	0.045/0.45	0.07/0.7	0.55	5
			60	90 ~ 1700				0.51	
K7I□15NU-SP		110	60	90 ~ 1700	0.125/1.25	0.045/0.45	0.07/0.7	0.47	4.5
		115					0.075/0.75	0.5	
K7I□15NL-SP		200	50	90 ~ 1400	0.125/1.25	0.04/0.4	0.08/0.8	0.3	1.5
			60	90 ~ 1700	0.105/1.05		0.085/0.85	0.31	
K7I□15NC-SP		220	50	90 ~ 1400	0.125/1.25	0.04/0.4	0.06/0.6	0.29	1
			60	90 ~ 1700	0.105/1.05			0.28	
		230	50	90 ~ 1400	0.125/1.25		0.065/0.65	0.3	
			60	90 ~ 1700	0.105/1.05			0.29	
K7I□15ND-SP		240	50	90 ~ 1400	0.125/1.25	0.04/0.4	0.07/0.7	0.32	1

* □ : SHAFT SHAPE (S : STRAIGHT, G : 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
K7I□15N□-SP K7G□B(C)	1200	0.30 3.0	0.36 3.6	0.51 5.1	0.61 6.1	0.76 7.6	0.91 9.1	1.01 10.1	1.27 12.7	1.52 15.2	1.82 18.2	1.82 18.2	2.28 22.8	2.73 27.3	3.28 32.8	3.65 36.5	4.10 41.0	4.92 49.2	5 50	5 50	5 50	5 50	5 50	5 50	5 50
	90	0.11 1.1	0.13 1.3	0.18 1.8	0.22 2.2	0.27 2.7	0.33 3.3	0.36 3.6	0.46 4.6	0.55 5.5	0.66 6.6	0.66 6.6	0.82 8.2	0.98 9.8	1.18 11.8	1.31 13.1	1.48 14.8	1.77 17.7	2.21 22.1	2.66 26.6	2.95 29.5	3.54 35.4	4.43 44.3	5 50	5 50

● Single-phase 200V/240V

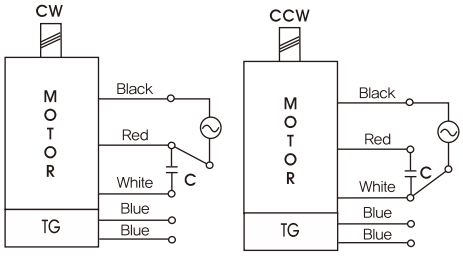
unit = above : N·m / below : Kgf·cm

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
K7I□15N□-SP K7G□B(C)	1200	200V/220V/230V/240V 50Hz	0.30 3.0	0.36 3.6	0.51 5.1	0.61 6.1	0.76 7.6	0.91 9.1	1.01 10.1	1.27 12.7	1.52 15.2	1.82 18.2	1.82 18.2	2.28 22.8	2.73 27.3	3.28 32.8	3.65 36.5	4.10 41.0	4.92 49.2	6.15 61.5	5 50	5 50	5 50	5 50	5 50	5 50
		200V/220V/230V/60Hz	0.26 2.6	0.31 3.1	0.43 4.3	0.51 5.1	0.64 6.4	0.77 7.7	0.85 8.5	1.06 10.6	1.28 12.8	1.53 15.3	1.53 15.3	1.91 19.1	2.30 23.0	2.76 27.6	3.06 30.6	3.44 34.4	4.13 41.3	5 50	5 50	5 50	5 50	5 50	5 50	5 50
	90		0.10 1.0	0.12 1.2	0.16 1.6	0.19 1.9	0.24 2.4	0.29 2.9	0.32 3.2	0.41 4.1	0.49 4.9	0.58 5.8	0.58 5.8	0.73 7.3	0.87 8.7	1.05 10.5	1.17 11.7	1.31 13.1	1.57 15.7	1.97 19.7	2.36 23.6	2.62 26.2	3.15 31.5	3.94 39.4	4.72 47.2	5 50

* 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 5N·m/50kgf·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

CONNECTION DIAGRAMS

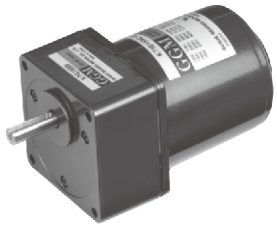


※The direction of motor rotation is as viewed from the front shaft end of the motor

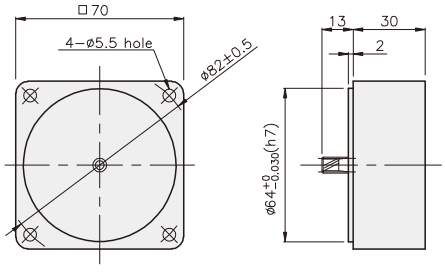
DIMENSIONS

K7G□B(C)

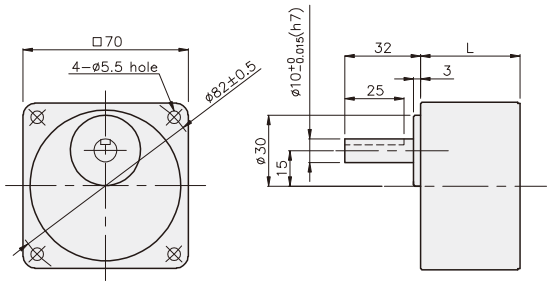
K7IG15N□-SP + K7G□B(C)



DECIMAL GEARHEAD
K7G10BX

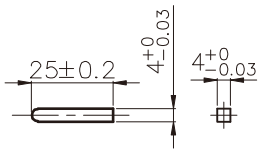


GEARHEAD
K7G□B(C)

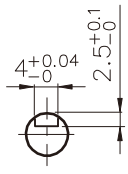


KEY SPEC

● KEY



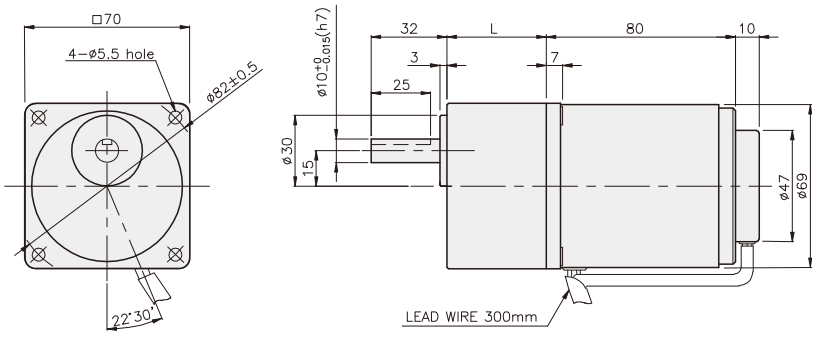
● KEY GROOVE



DIMENSION TABLE

PART No.	L	Application Model	Mounting BOLT
01	32	K7G3~18B(C)	M5 P0.8 X 50
02	42	K7G20~200B(C)	M5 P0.8 X 65
03	30	K7G10BX	M5 P0.8 X 90

WEIGHT

PART		WEIGHT(kg)
MOTOR		1.16
DECIMAL GEAR HEAD		0.32
GEAR HEAD	K7G3~18B(C)	0.38
	K7G20~40B(C)	0.46
	K7G50~200B(C)	0.51

K7IG15N□-SP + K7G□B(C)