GGM GGM GEARED MOTOR

40W □90mm

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)	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)	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	

Single-phase: K9I□40NJ through K9I□40ND. Three-phase: K9I□40NT through K9I□40NZ.

*□ : SHAFT SHAPE (S : STRAIGHT, G : PINION) * NU, NH, NH−T, NH−T5 which are in end of the model name is UL certified ones. UL FILE NO. E204632
* 3 phase motor for over 380 voltage can't be used with inverter. Motor winding insulation can be damaged.

RATED TORQUE OF GEARHEAD

● 50Hz

unit = above : N·m / below : Kgf·cm

Model	Speed(rpm)	500	416	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
Motor/ Gearhead	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9I□40N□(−T, −T5) K9G□B(C)		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
		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 : Kgf·cm

Model	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
Motor/ Gearhead	Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9I□40N□(−T, −T5) K9G□B(C)		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
		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/100kgf·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.

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GEARHEAD

DIMENSIONS

K9IS40N□

MOTOR LEAD WIRE 300mm
UL Style 3271 , AWG20
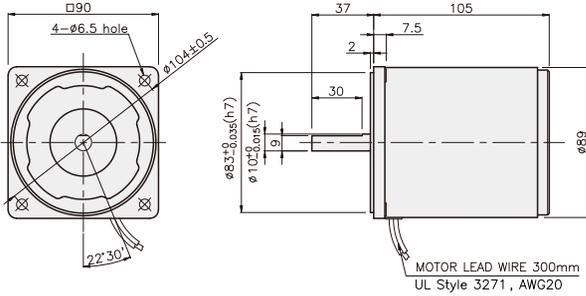
K9IS40N□-T

K9IS40N□-T5

MATERIAL: PLASTIC
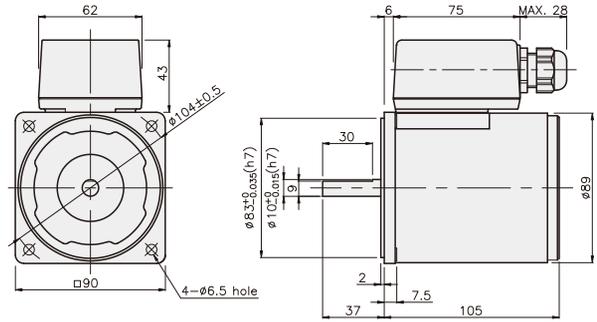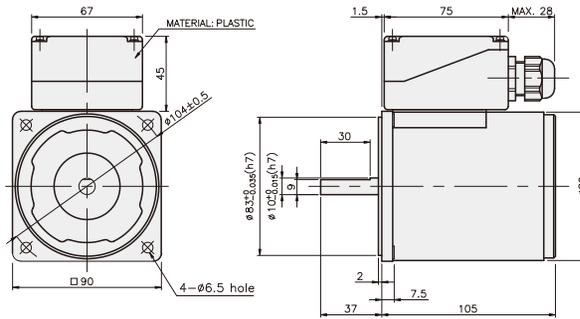
CONNECTION DIAGRAMS

K9IS40N□

single phase motor
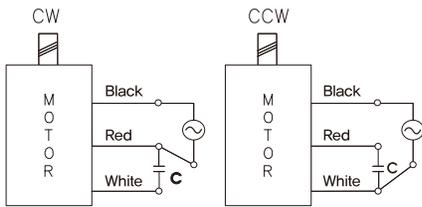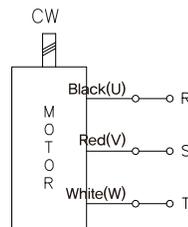
CW — MOTOR — Black, Red, White C

CCW — MOTOR — Black, Red, White C

three phase motor

CW — MOTOR — Black(U) R, Red(V) S, White(W) T

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
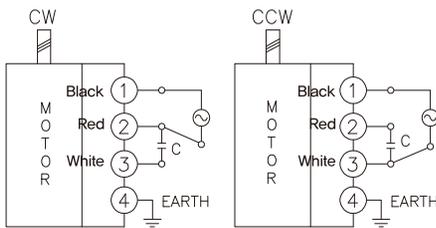
CW — MOTOR — Black 1, Red 2, White 3, 4 EARTH — C

CCW — MOTOR — Black 1, Red 2, White 3, 4 EARTH — C

three phase motor

CW — MOTOR — Black 1 R(U), Red 2 S(V), White 3 T(W), 4 EARTH
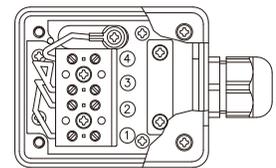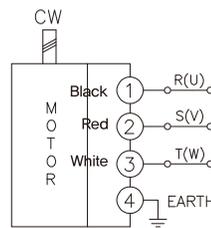
※The direction of motor rotation is as viewed from the front shaft end of the motor

K9IS40N□-T5

single phase motor
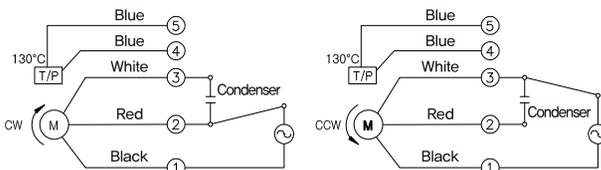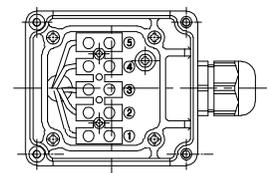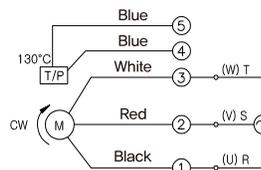
130°C T/P — Blue 5, Blue 4, White 3, Red 2, Black 1 — Condenser — CW M

130°C T/P — Blue 5, Blue 4, White 3, Red 2, Black 1 — Condenser — CCW M

three phase motor

130°C T/P — Blue 5, Blue 4, White 3 (W) T, Red 2 (V) S, Black 1 (U) R — CW M

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

GEARHEAD

DIMENSIONS

K9G□B(C)

DECIMAL GEARHEAD
**K9G10BX**

GEARHEAD
K9G□B(C)

□90
4−ø6.5 hole
ø104±0.5
18 37
2
ø83±0,035(h7)

□90
4−ø6.5 hole
ø104±0.5
32 L
3
25
ø12+0,018(h7)
ø36
18

KEY SPEC

● KEY

25±0.2
4+0−0.03
4+0−0.03

● KEY GROOVE

4+0.03−0
2.5+0.1−0

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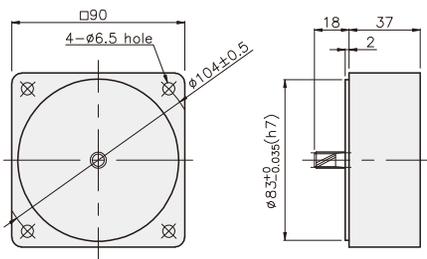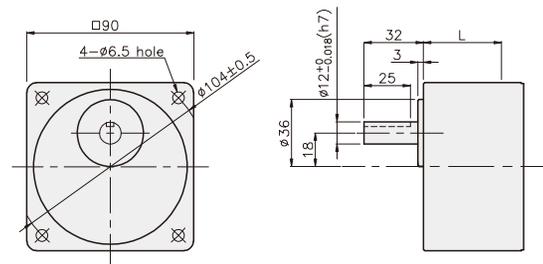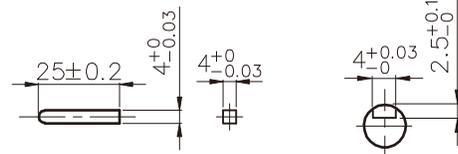
DIMENSIONS

K9IG40N□ + K9G□B(C)   K9IG40N□−T(T5) + K9G□B(C)

K9IG40N□ + 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 GEARHEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14
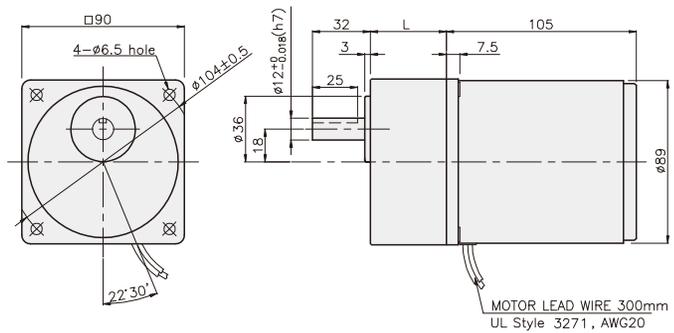
□90
4−ø6.5 hole
ø104±0.5
22°30'
32
L
105
3
7.5
25
ø12+0.018(h7)
ø36
18
ø89
MOTOR LEAD WIRE 300mm
UL Style 3271 , AWG20

K9IG40N□-T + 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		2.52
DECIMAL GEARHEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

62
43
□90
4−ø6.5 hole
ø104±0.5
5.5
75
MAX. 28
25
ø12+0.018(h7)
ø36
18
ø89
3
7.5
32
L
105

K9IG40N□-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		2.52
DECIMAL GEARHEAD		0.60
GEAR HEAD	K9G3~18B(C)	0.78
	K9G20~40B(C)	1.04
	K9G50~200B(C)	1.14

67
45
MATERIAL: PLASTIC
□90
4−ø6.5 hole
ø104±0.5
1.5
75
MAX. 28
25
ø12+0.018(h7)
ø36
18
ø89
3
7.5
32
L
105