REVERSIBLE MOTOR



□90mm

LEAD WIRE TYPE TERMINAL BOX TYPE

K9RS90F□



K9RS90F□-T, T5



SPECIFICATIONS

90W continuous rating, four poles

Model		Voltage (V)	Frequency (Hz)	Current (A)	Start T <u>.</u> (N*m/ Kgf*Cm)	Rated T. (N*m/ Kgf*Cm)	Speed (rpm)	Condenser (μF)	
K9R□90FJ(-T, -T5)		100	50	2 <u>.</u> 52	0 <u>.</u> 6/6	0.705/7.05	1250	35	
K9K 🗆 90F3(=1, =15)		100	60	2 <u>.</u> 42	0.0/6	0.57/5.7	1550	33	
KOBE 0051 (-T -T5)		110	- 60	1 <u>.</u> 88	0.55/5.5	0.57/5.7	1550	25	
K9R□90FU(-T, -T5)		115	5 60	2 <u>.</u> 12	0.55/5.5	0.57/5.7	1550	25	
KODELOOEL (T. TE)		220	50	0 <u>.</u> 9	0.55/5.5	0.705/7.05	1250	8	
K9R□90FL(-T, -T5)	single - phase	220	60	1.1	0.55/5.5	0.57/5.7	1550		
		220	50	1	0.5/5	0.705/7.05	1250		
VODELOOFO(T. TE)		220	60	1,1	0.53/5.3	0.57/5.7	1550	7	
K9R□90FC(-T, -T5)		220	50	1 <u>.</u> 3	0.6/6	0.705/7.05	1250	/	
		230	60	1,1	0.6/6	0.57/5.7	1550		
K9R□90FD(-T, -T5)		240	50	0.94	0.55/5.5	0,705/7,05	1250	6	

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

Models highlighted in Red are stocked at Gapp Automation

RATED TORQUE OF GEARHEAD

• 50Hz

unit = above : $N \cdot m$ / 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 <u>.</u> 5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9R□90F□	□(-T, -T5)	1,71	2,06	2,86	3,43	4,28	5,14	5,71	6,42	7,71	9,25	10,28	11,56	13,88	16,65	18,5	20	20	20	20	20	20	20	20	20
K9P□	B, BF	17,1	20,6	28,6	34,3	42.8	51,4	57,1	64,2	77,1	92,5	102.8	115,6	138,8	166,5	185,0	200	200	200	200	200	200	200	200	200

• 60Hz

Models highlighted in Red are stocked at Gapp Automation unit = above: N·m / below: kglcm

Models highlighted in Red are stocked at Gapp Automation

Model Speed(rpm) 600 | 500 360 300 240 200 180 120 100 90 72 36 30 24 20 18 15 12 10 9 Motor/ Gearhead 3 6 9 10 25 30 36 50 150 200 Ratio 3,6 12.5 15 18 40 60 90 100 120 180 K9R□90F□(-T, -T5) 1,39 1,66 2,31 2,77 3,46 4.16 4,62 5,19 6,23 7,48 8,31 9,35 11,22 13,46 14,96 18,7 20 20 20 20 20 20 20 20 K9P□B, BF 13,9 34.6 41,6 46.2 51.9 62,3 74,8 83.1 93.5 112.2 134.6 149.6 187 200 200 200 200 16.6 23,1 27.7 200 200 200 200

- * Gearhead and decimal gearhead are sold separately.
- * The code in $\hfill\Box$ 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/200kgfcm.
- * 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

• 60Hz

RATED TORQUE OF GEARHEAD

• 50Hz unit = above : $N \cdot m$ / 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	13	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□90F	⊐(-T, -T5)	1,71	2,06	2,86	3,43	4,28	5.14	5,71	6,42	7,71	9,25	10,28	11,56	13,88	16,65	18,50	23,13	27,75	30	30	30	30	30	30	30
K9RP□E	BU, BUF	17,1	20,6	28,6	34.3	42.8	51,4	57,1	64,2	77,1	92,5	102,8	115,6	138,8	165,6	185.0	231,3	277.5	300	300	300	300	300	300	300

Models highlighted in Red are stocked at Gapp Automation

unit = above : $N \cdot m$ / below : kgfcm

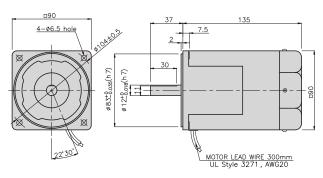
Model	Speed(rpm)	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
Motor/ Gearhead	Ratio	3	3,6	5	6	7,5	9	10	12,5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
K9R□90F	□(-T, -T5)	1,39	1,66	2,31	2,77	3,46	4,16	4,62	5,19	6,23	7,48	8,31	9,35	11,22	13,46	14,96	18,70	22,44	25,24	30	30	30	30	30	30
K9RP□E	BU, BUF	13,9	16,6	23,1	27.7	34.6	41,6	46.2	51,9	62,3	74.8	83.1	93,5	112,2	134,6	149,6	187.0	224.4	252,4	300	300	300	300	300	300

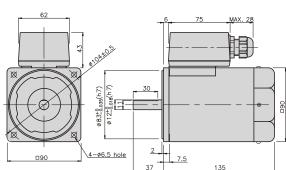
Models highlighted in Red are stocked at Gapp Automation

- * Gearhead and decimal gearhead are sold separately.
- * The code in \square 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/300kgfcm.
- * 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.

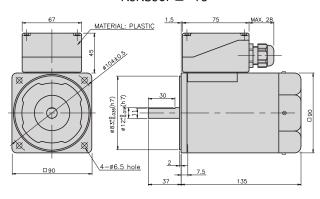
DIMENSIONS

K9RS90F□-T K9RS90F□





K9RS90F□-T5

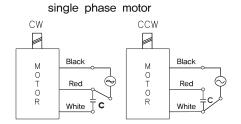


GGM GGM GEARED MOTOR

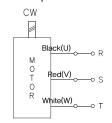
GEARHEADS

CONNECTION DIAGRAMS

K9RS90F□



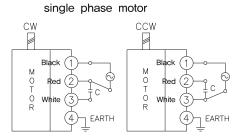
three phase motor



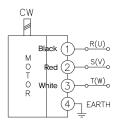
connecting two leadwires of U,V,W in turns

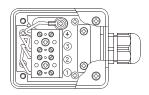
The direction of motor rotation is as viewed from the front shaft end of the motor

K9RS90F□-T



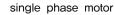
three phase motor

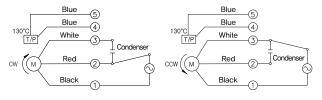




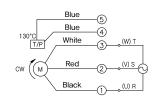
The direction of motor rotation is as viewed from the front shaft end of the motor

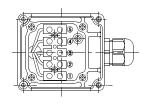
K9RS90F□-T5





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

GGM GGM GEARED MOTOR

GEARHEADS

DIMENSIONS

К9Р□В



K9P□BF, BUF

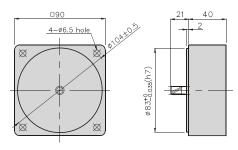


K9P□BU



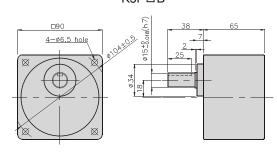
DECIMAL GEARHEAD

K9P10BX



GEAR HEAD

К9Р□В



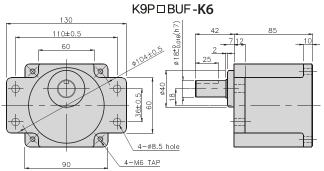
GEARHEAD

K9P□BF 130 110±0.5 4-ø6.5 hole

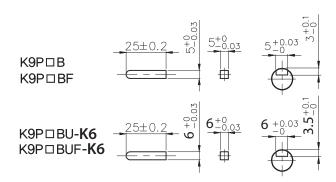
GEARHEAD

K9P□BU-**K6** 4-Ø8.5hole 4-ø8.5hole

GEARHEAD



KEY SPEC



GGM GGM GEARED MOTOR

GEARHEADS

DIMENSIONS

K9RP90F□ + K9P□B

K9RP90F□ + K9P□BF, BUF

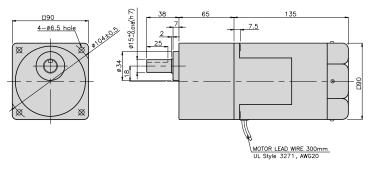
K9RP90F□ + K9P□BU



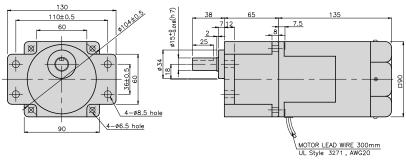




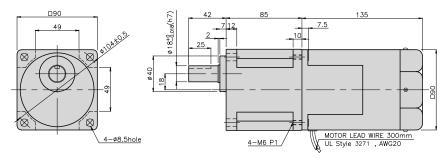
K9RP90F□ + K9P□B



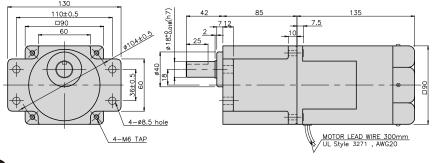
K9RP90F□ + K9P□BF



K9RP90F□ + K9P□BU



K9RP90F□ + K9P□BUF



WEIGHT

PART	WEIGHT(kg)
MOTOR	3.00
DECIMAL GEAR HEAD	0.62

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

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

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

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

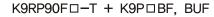
WEIGHT	
PART	WEIGHT(kg)
K9P3∼10BUF	1,50
K9P12.5~20BUF	1,62
K9P25~60BUF	1,76
K9P75~200BUF	1,82



GEARHEADS

DIMENSIONS

K9RP90F□-T + K9P□B



K9RP90F□-T + K9P□BU







WEIGHT

PART	WEIGHT(kg)
MOTOR	3,18
DECIMAL GEAR HEAD	0.62

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

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

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

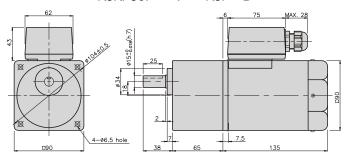
DIMENSION TABLE

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

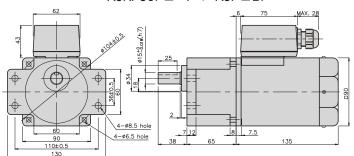
WEIGHT

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

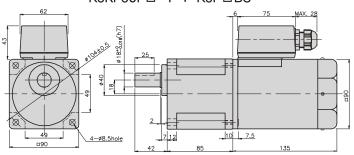
$K9RP90F\Box -T + K9P\Box B$



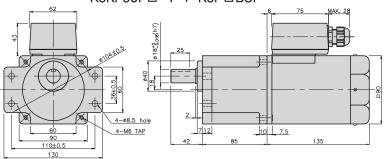
K9RP90F□-T + K9P□BF



K9RP90F□-T + K9P□BU



K9RP90F□-T + K9P□BUF



GEARHEADS

DIMENSIONS

K9RP90F□-T5 + K9P□B

K9RP90F□-T5 + K9P□BF, BUF

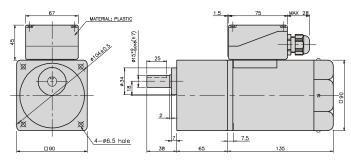
K9RP90F□-T5 + K9P□BU



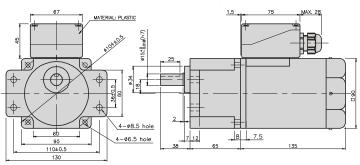




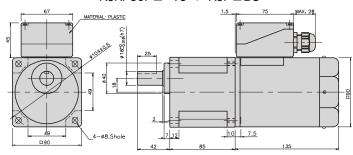
K9RP90F□-T5 + K9P□B



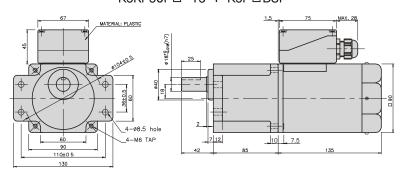
K9RP90F□-T5 + K9P□BF



K9RP90F□-T5 + K9P□BU



K9RP90F□-T5 + K9P□BUF



WEIGHT

PART	WEIGHT(kg)
MOTOR	3,18
DECIMAL GEAR HEAD	0.62

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

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

WEIGHT

PART	WEIGHT(kg)
K9P3~10BF	1,22
K9P12.5~20BF	1 <u>.</u> 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 <u>.</u> 5∼20BU	1 <u>.</u> 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

E:Gi*		
PART	WEIGHT(kg)	
K9P3~10BUF	1,50	
K9P12.5~20BUF	1,62	
K9P25~60BUF	1.76	
K9P75~200BUF	1,82	