eed Type

Right-Angle Gearheads

RoHSReversible Motors6 WFrame Size: □60 mm





(Gearhead sold separately)

Specifications – 30 Minutes Rating (RoHS)

	Model Upper Model Name: Pinion Shaft Type Lower Model Name (): Round Shaft Type			Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	
	Lead Wire TypeTerminal Box TypeDimension ①Dimension ②		W	VAC	Hz	А	mN∙m	mN∙m	r/min	μF	
(ZP)	2RK6GN-AW2J 2RK6GN-AW		6	Cingle Dhoos 100	50	0.257	50	49	1150	4.5	
(LP)	(2RK6A-AW2J)	(2RK6A-AW2TJ)	0	Single-Phase 100	60	0.307	45	41	1400	4.0	
(ZP)	2RK6GN-AW2U	2U 2RK6GN-AW2TU	6	Single-Phase 110	60	0.251	45	41	1450	2.5	
(LP)	(2RK6A-AW2U)	(2RK6A-AW2TU)	0	Single-Phase 115		0.256		41		3.0	
(ZP)	2RK6GN-CW2J	N-CW2J 2RK6GN-CW2TJ		Cingle Dhose 200	50	0.120	50	49	1150	1.0	
(LP)	(2RK6A-CW2J)	(2RK6A-CW2TJ)	0	5 Single-Phase 200	60	0.138	45	41	1400	1.0	
				Single-Phase 220	50	0.113	45	49	1150		
(ZP)	2RK6GN-CW2E	2RK6GN-CW2TE	6	Single-Filase 220	60	0.117	40	41	1450	0.0	
(ZP)	(2RK6A-CW2E)	(2RK6A-CW2E)	(2RK6A-CW2TE)	0	Single-Phase 230	50	0.117	50	49	1200	4.5 3.5 1.0 0.8
				Single-Filase 230	60	0.120	45	41	1450	1	

• Values shown for rated torque and starting torque are measured for operation without the friction brake installed.

• The J, U and E at the end of the model name indicate that the unit includes a capacitor. These letters are not listed on the motor nameplate.

When the motor is approved under various safety standards, the model name on the nameplate is the approved model name.

ZP: Impedance protected

Product Line

Motor (RoHS)

Tupo	Mo	odel					
Туре	Pinion Shaft Type	Round Shaft Type					
	2RK6GN-AW2J	2RK6A-AW2J					
Lead Wire	2RK6GN-AW2U	2RK6A-AW2U					
Leau wire	2RK6GN-CW2J	2RK6A-CW2J					
	2RK6GN-CW2E	2RK6A-CW2E					
	2RK6GN-AW2TJ	2RK6A-AW2TJ					
Terminal Box	2RK6GN-AW2TU	2RK6A-AW2TU					
Terminal box	2RK6GN-CW2TJ	2RK6A-CW2TJ					
	2RK6GN-CW2TE	2RK6A-CW2TE					

Gearhead (Sold Separately) (RoHS)

Ceamead (Gold Deparately)										
Туре	Gearhead Model	Gear Ratio								
Long Life/Low Noise/ Parallel Shaft	2GN□S	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180								
	2GN10XS (Decimal gearhead)									

• Enter the gear ratio in the box (\Box) within the model name.

Gearmotor – Torque Table

•Gearheads and decimal gearheads are sold separately.

●Enter the code that represents the terminal box type "T" in the box (□) within the model name.

•Enter the gear ratio in the box (\Box) within the model name.

•A colored background indicates gear shaft rotation in the same direction as the motor shaft, while the others rotate in the opposite direction.

The speed is calculated by dividing the motor's synchronous speed (50 Hz: 1500 r/min, 60 Hz: 1800 r/min) by the gear ratio.

The actual speed is 2 - 20% less than the displayed value, depending on the size of the load.

•To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead (gear ratio: 10) between the gearhead and the motor. In that case, the permissible torque is 3 N·m.

⊘50 Hz																				Uni	t = N•m
Model	Speed r/min	500	416	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3
Motor/ Gearhead	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
2RK6GN-AW2J 2RK6GN-CW2J 2RK6GN-CW2E	2GN□S	0.12	0.14	0.20	0.24	0.30	0.36	0.50	0.60	0.71	0.89	1.1	1.3	1.6	1.9	2.4	2.9	3	3	3	3
◇60 Hz																					
Model	Speed r/min	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
Motor/ Gearhead	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
2RK6GN-AW2 J 2RK6GN-AW2 U 2RK6GN-CW2 J 2RK6GN-CW2 E	2GN⊡S	0.10	0.12	0.17	0.20	0.25	0.30	0.42	0.50	0.60	0.75	0.90	1.1	1.4	1.6	2.0	2.4	2.7	3	3	3

Permissible Overhung Load and Permissible Thrust Load

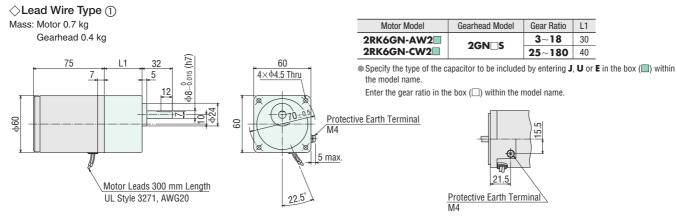
Motor (Round shaft type) → Page 107 Gearhead → Page 107

Permissible Load Inertia J for Gearhead

→ Page 107

Dimensions (Unit = mm)

Mounting screws are included with gearheads.



Detail Drawing of Protective Earth Terminal

15 W

25 W

40 W

M 09

M 06

≤

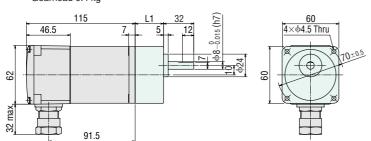
World K Series

High-speed type

Right-Angle Gearheads

Accessories

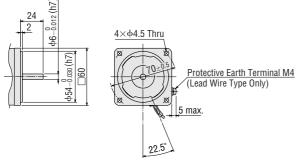
Mass: Motor 0.9 kg Gearhead 0.4 kg



 \bullet Use cable with a diameter of $\varphi 8 \sim \varphi 12$ mm.

♦ Shaft Section of Round Shaft Type

The mass and motor's dimensions (excluding the shaft section) are the same as those of the pinion shaft type.



♦ Decimal Gearhead

Motor Model

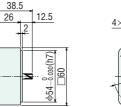
2RK6GN-AW2T

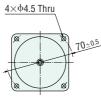
2RK6GN-CW2T

() within the model name.

Can be connected to **GN** pinion shaft type. 2GN10X5

Mass: 0.2 kg





Gearhead Model

2GN S

Enter the gear ratio in the box (\Box) within the model name.

• Specify the type of the capacitor to be included by entering J, U or E in the box

Gear Ratio

3~18

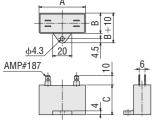
25~180

L1

30

40

(Included with the motors)



l			<u>⊢ A</u>
Lo		0	
Lead		<u> </u>	
2RK60 (2RK6)		4:5 B	<u>φ4.3</u> 20
2RK60	-+ <mark>6</mark> +-	. 9	AMP#187
(2RK6/			
2RK60		5	
(2RK6/	ntr İ	4	
2RK6G		·····	<u> </u>

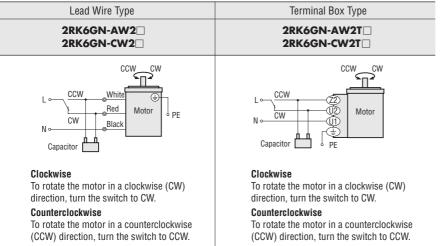
Upper Model Name	odel e: Pinion Shaft Type (): Round Shaft Type	Capacitor Model	A	В	С	Mass (g)	Capacitor Cap
Lead Wire Type	Lead Wire Type Terminal Box Type						
2RK6GN-AW2J (2RK6A-AW2J)	2RK6GN-AW2TJ (2RK6A-AW2TJ)	CH45FAUL2	37	18	27	30	
2RK6GN-AW2U (2RK6A-AW2U)	2RK6GN-AW2TU (2RK6A-AW2TU)	CH35FAUL2	31	17	27	25	Included
2RK6GN-CW2J (2RK6A-CW2J)	2RK6GN-CW2TJ (2RK6A-CW2TJ)	CH10BFAUL	37	18	27	30	Included
2RK6GN-CW2E (2RK6A-CW2E)	2RK6GN-CW2TE (2RK6A-CW2TE)	CH08BFAUL	31	17	27	20	

Connection Diagrams

The direction of motor rotation is as viewed from the shaft end of the motor. CW represents the clockwise direction, while CCW represents the counterclockwise direction.

Connection diagrams are also valid for the equivalent round shaft type.

Specify the type of the capacitor to be included by entering J, U or E in the box (
) within the model name.



Note