1 1

(RoHS) Reversible Motors 40 W

Frame Size: 90 mm



Right-angle gearheads (hollow shaft or solid shaft) can be combined. Right-Angle Gearheads → Page 108



Specifications – 30 Minutes Rating (RoHS)

	Model Upper Model Name: Pinion Shaft Type Lower Model Name (): Round Shaft Type		Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	
	Lead Wire Type Dimension ①	Terminal Box Type Dimension ②	W	VAC	Hz	А	mN∙m	mN∙m	r/min	μF	
TP	5RK40GN-AW2J	5RK40GN-AW2TJ	40	Single-Phase 100	50	0.91	300	315	1250	16	
P	(5RK40A-AW2J)	(5RK40A-AW2TJ)	40	Single-Flase 100	60	1.09	260	270	1450	10	
TP	5RK40GN-AW2U	5RK40GN-AW2TU	40 Single-Phase 110		60	0.88	260	270	1450	12	
	(5RK40A-AW2U)	(5RK40A-AW2TU)	40	Single-Phase 115	00	0.87	200	270	1450	12	
TP	5RK40GN-CW2J	5RK40GN-CW2TJ	40	Single-Phase 200	50	0.46	270	315	1250	4.0	
P	(5RK40A-CW2J)	(5RK40A-CW2TJ)	40	Single-Phase 200	60	0.55	260	260	1500	4.0	
				Cingle Dhoos 200	50	0.43	270	315	1250		
	5RK40GN-CW2E	5RK40GN-CW2TE	40	Single-Phase 220	60	0.48	260	260	1500		
TP	(5RK40A-CW2E)	(5RK40A-CW2TE)	40		50	0.43	270	315	1250	- 3.5	
				Single-Phase 230	60	0.48	260	260	1500		

• 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.

(D): Contains a built-in thermal protector. If a motor overheats for any reason, the thermal protector is opened and the motor stops.

When the motor temperature drops, the thermal protector closes and the motor restarts. Be sure to turn the motor off before inspecting.

Product Line

	lotor	(RoHS)
- 1 4	iotor	(110110)

Туре	Model										
туре	Pinion Shaft Type	Round Shaft Type									
	5RK40GN-AW2J	5RK40A-AW2J									
Lead Wire	5RK40GN-AW2U	5RK40A-AW2U									
Leau wile	5RK40GN-CW2J	5RK40A-CW2J									
	5RK40GN-CW2E	5RK40A-CW2E									
	5RK40GN-AW2TJ	5RK40A-AW2TJ									
Terminal Box	5RK40GN-AW2TU	5RK40A-AW2TU									
Terrininal DUX	5RK40GN-CW2TJ	5RK40A-CW2TJ									
	5RK40GN-CW2TE	5RK40A-CW2TE									

• Gearhead/Right-Angle Gearhead (Sold Separately) (ROHS)

•		· · · · · —						
Туре	Gearhead Model	Gear Ratio						
Long Life/Low Noise/ Parallel Shaft	5GN [_] S	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						
	5GN10XS (Decimal gearhead)							
Right-Angle/ Hollow Shaft	5GN□RH	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						
Right-Angle/ Solid Shaft	5GN_RA	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						

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

W 9

M 09

M 06

Induction Motors 2-Pole

Torque Motors

Right-Angle Gearheads

Brake Pack SB50W

Gearmotor – Torque Table

Gearheads and decimal gearheads are sold separately.

•Enter the code that represents the terminal box type "**T**" in the box (**D**) 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 10 N·m.

\Diamond 50	Hz
---------------	----

\diamondsuit 50 Hz	♦ 50 Hz Unit = 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	High-S
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	Speed T
5RK40GN-AW2J 5RK40GN-CW2J 5RK40GN-CW2E	5GN⊡S	0.77	0.92	1.3	1.5	1.9	2.3	3.2	3.8	4.6	5.7	6.9	8.3	10	10	10	10	10	10	10	10	ype

♦ HZ Unit = N ^{·m}																					
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
5RK40GN-AW2 J 5RK40GN-AW2 U	∕ 5GN⊡S	0.66	0.79	1.1	1.3	1.6	2.0	2.7	3.3	3.9	4.9	5.9	7.1	8.9	10	10	10	10	10	10	10
5RK40GN-CW2 5RK40GN-CW2 E	∕ 5GN⊐S	0.63	0.76	1.1	1.3	1.6	1.9	2.6	3.2	3.8	4.7	5.7	6.8	8.6	10	10	10	10	10	10	10

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)

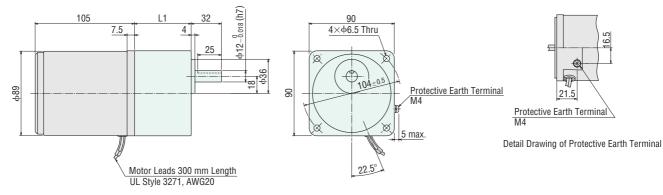
Mounting screws are included with gearheads.



Motor Model	Gearhead Model	Gear Ratio	L1	
5RK40GN-AW2	5GN□S	3~18	42	
5RK40GN-CW2	JGN_3	25~180	60	

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

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



Accessories

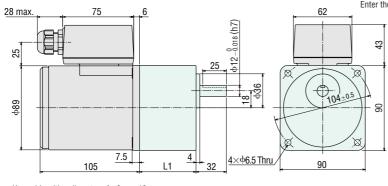
Mass: Motor 2.6 kg kg

Gearhead	1.5	ĸ

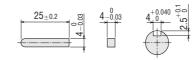
Motor Model	Gearhead Model	Gear Ratio	L1
5RK40GN-AW2T	5GN□S	3~18	42
5RK40GN-CW2T	JGIN_5	25~180	60

ullet Specify the type of the capacitor to be included by entering ${\bf J}, {\bf U}$ or ${\bf E}$ in the box () within the model name

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

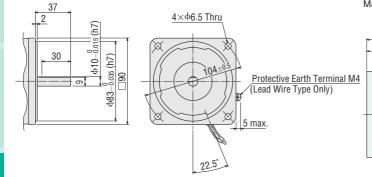


(The key is included with the gearhead)

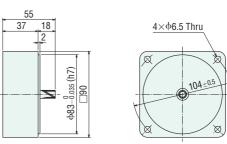


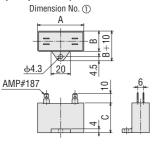
• Use cable with a diameter of $\phi 6 \sim \phi 12$ mm.

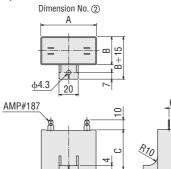
 \diamondsuit Shaft Section of Round Shaft Type The mass and motor's dimensions (excluding the shaft section) are the same as those of the pinion shaft type.



 \Diamond Decimal Gearhead Can be connected to ${\ensuremath{\textbf{GN}}}$ pinion shaft type. 5GN10XS Mass: 0.6 kg







Mo Upper Model Name Lower Model Name	Capacitor Model	A	В	С	Mass (g)	Dimension No.	Capacitor Cap			
Lead Wire Type	Terminal Box Type									
5RK40GN-AW2J (5RK40A-AW2J)	5RK40GN-AW2TJ (5RK40A-AW2TJ)	CH160CFAUL2	58	23.5	37	75	2			
5RK40GN-AW2U (5RK40A-AW2U)	5RK40GN-AW2TU (5RK40A-AW2TU)	CH120CFAUL2	58	22	35	60	1	Included		
5RK40GN-CW2J (5RK40A-CW2J)	5RK40GN-CW2TJ (5RK40A-CW2TJ)	CH40BFAUL	58	23.5	37	70	2	Included		
5RK40GN-CW2E (5RK40A-CW2E)	5RK40GN-CW2TE (5RK40A-CW2TE)	CH35BFAUL	58	22	35	55	1			

15 W

1 W

M 06

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Induction Motors 2-Pole,

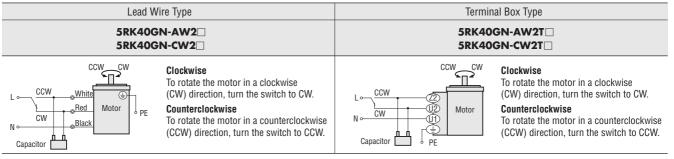
High-Speed Type

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.



PE: Protective Earth

Note:

Connect a CR circuit to the forward/reverse select switch to protect the contact. **EPCR1201-2** is available as an optional surge suppressor. → Page 123