RoHS Reversible Motors 25 W Frame Size: 80 mm



(Gearhead sold separately)

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 Terminal Box Type Dimension ① Dimension ②		W	VAC	Hz	А	mN∙m	mN∙m	r/min	μF		
	4RK25GN-AW2J	25GN-AW2J 4RK25GN-AW2TJ (25A-AW2J) (4RK25A-AW2TJ)		Cingle Dhose 100	50	0.59	160	205	1200	10		
P	(4RK25A-AW2J)			Siligie-Pliase 100	60	0.69	140	170	1450	10		
	4RK25GN-AW2U 4RK25GN-AW2TU		25	Single-Phase 110	60	0.56	140	170	1450	80		
P	(4RK25A-AW2U)	5A-AW2U) (4RK25A-AW2TU)	25	Single-Phase 115	00	0.50	140	170	1450	0.0		
	4RK25GN-CW2J	4RK25GN-CW2TJ	25	Cingle Dhose 200	50	0.32	160	205	1200	20		
	(4RK25A-CW2J)	J) (4RK25A-CW2TJ) ²		Sillyle-Filase 200	60	0.40	140	170	1450	3.0		
				Single Phase 220	50	0.29	140	205	1200			
TP	4RK25GN-CW2E (4RK25A-CW2E)	-CW2E 4RK25GN-CW2TE	25	Sillyle-FildSe 220	60	0.35	140	170	1450	2.5		
		(4RK25A-CW2E) (4RK25A-CW2	(4RK25A-CW2TE)	20	Cinela Dhasa 000	50	0.30	160	205	1200	2.5	
				Single-Phase 230	60	0.35	140	170	1450			

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

Motor (RoHS)

Tuno	Model								
Type	Pinion Shaft Type	Round Shaft Type							
	4RK25GN-AW2J	4RK25A-AW2J							
Lood Wiro	4RK25GN-AW2U	4RK25A-AW2U							
Leau wire	4RK25GN-CW2J	4RK25A-CW2J							
	4RK25GN-CW2E	4RK25A-CW2E							
	4RK25GN-AW2TJ	4RK25A-AW2TJ							
Terminal Day	4RK25GN-AW2TU	4RK25A-AW2TU							
Terminal box	4RK25GN-CW2TJ	4RK25A-CW2TJ							
	4RK25GN-CW2TE	4RK25A-CW2TE							

Gearhead/Right-Angle Gearhead (Sold Separately) (Rolls)

Туре	Gearhead Model	Gear Ratio						
Long Life/Low Noise/ Parallel Shaft	4GN⊡S	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						
	4GN10XS (Decimal gearhead)							
Right-Angle/ Hollow Shaft	4GN 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	4GN_RA	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						

• 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 8 N·m. When a gearhead of 1/25~1/36 is connected, the value for permissible torque is 6 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
4RK25GN-AW2J 4RK25GN-CW2J 4RK25GN-CW2E	dGN⊡S	0.50	0.60	0.83	1.0	1.2	1.5	2.1	2.5	3.0	3.7	4.5	5.4	6.8	8	8	8	8	8	8	8
◇60 Hz																					
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
4RK25GN-AW2_J 4RK25GN-AW2_U 4RK25GN-CW2_J 4RK25GN-CW2_E	dGN⊡S	0.41	0.50	0.69	0.83	1.0	1.2	1.7	2.1	2.5	3.1	3.7	4.5	5.6	6.7	8	8	8	8	8	8

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.



≤

M9

25 W

40 W

M 09

M 06

ed Type



 \bullet Use cable with a diameter of $\varphi 6 \sim \varphi 12$ 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

Can be connected to **GN** pinion shaft type. **4GN10XS** Mass: 0.4 kg





♦Capacitor

(Included with the motors)

Capacitor Dimer	isions (mm)								
Mo Upper Model Name Lower Model Name	del e: Pinion Shaft Type (): Round Shaft Type	Capacitor Model	A	В	С	Mass (g)	Capacitor Cap		
Lead Wire Type									
4RK25GN-AW2J (4RK25A-AW2J)	4RK25GN-AW2TJ (4RK25A-AW2TJ)	CH100CFAUL2	58	21	31	50			
4RK25GN-AW2U (4RK25A-AW2U)	4RK25GN-AW2TU (4RK25A-AW2TU)	CH80CFAUL2	48	21	31	45	la aluda d		
4RK25GN-CW2J (4RK25A-CW2J)	4RK25GN-CW2TJ (4RK25A-CW2TJ)	CH30BFAUL	58	21	31	50	Included		
4RK25GN-CW2E (4RK25A-CW2E)	4RK25GN-CW2TE (4RK25A-CW2TE)	CH25BFAUL	48	21	31	45			

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