RoHS Reversible Motors 15 W

Frame Size: **□70** mm



Specifications – 30 Minutes Rating (RoHS)



	Model Lead Wire Type			Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	
	Pinion Shaft Type	Round Shaft Type	W	VAC	Hz	Α	mN·m	mN∙m	r/min	μF	
(TP)	3RK15GN-AW2J	K15GN-AW2J 3RK15A-AW2J		Single-Phase 100	50	0.41	100	125	1200	7.5	
<u> </u>	3KK13GH-AW23	3KK13A-AVV23	15	Siligie-Filase 100	60	0.50	100	105	1450	7.5	
(TP)	P 3RK15GN-AW2U	3RK15A-AW2U	15	Single-Phase 110	60	0.41	100	105	1450	6.0	
(IP)	3KK 13GN-AW20	JKK I JA-AWZU	15	Single-Phase 115	00	0.41	100	103	1430	0.0	
(TP)	3RK15GN-CW2J	3RK15A-CW2J	15	Single-Phase 200	50	0.21	100	125	1200	1.8	
(IP)	3KK 13GIN-CW2J	SKK I SA-CW 23	15	Siligie-Filase 200	60	0.24	100	105	1450	1.0	
				Cinala Dhana 000	50	0.20		125	1200		
(TP)	3RK15GN-CW2E	3RK15A-CW2E	15	Single-Phase 220	60	0.21	100	105	1450	1.5	
(IP)		JRR I JA-CWZE	10	Cingle Phone 220	50	0.20	100	125	1200		
				Single-Phase 230	60	0.21		105	1450	1	

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

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

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								
	3RK15GN-AW2J	3RK15A-AW2J								
Lood Wine	3RK15GN-AW2U	3RK15A-AW2U								
Lead Wire	3RK15GN-CW2J	3RK15A-CW2J								
	3RK15GN-CW2E	3RK15A-CW2E								

Gearhead (Sold Separately) (RoHS)

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

■ Enter the gear ratio in the box (□) within the model name.

[●] 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.

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

Gearmotor – Torque Table

- Gearheads and decimal gearheads are sold separately.
- ■Enter the gear ratio in the 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 5 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	
3RK15GN-AW2J 3RK15GN-CW2J 3RK15GN-CW2E	3GN□S	0.30	0.36	0.51	0.61	0.76	0.91	1.3	1.5	1.8	2.3	2.7	3.3	4.1	5	5	5	5	5	5	5	

♦60 Hz																				Uni	t = 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
3RK15GN-AW2J 3RK15GN-AW2U 3RK15GN-CW2J 3RK15GN-CW2E	/ 3GN□S	0.26	0.31	0.43	0.51	0.64	0.77	1.1	1.3	1.5	1.9	2.3	2.8	3.5	4.2	5	5	5	5	5	5

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.

♦ Lead Wire Type

Mass: Motor 1.1 kg Gearhead 0.55 kg

	80 L1 32 위	• Specify the type of the model name.	the capacitor to be included by en
	7 5 00	4×45.5 Thru Enter the gear rati	o in the box (\square) within the model n
694	Motor Leads 300 mm Length	Protective Earth Terminal M4 5 max.	Protective Earth Terminal
	UL Style 3271, AWG20	22.5°	Detail Drawing of Protective F

3RK15GN-AW2 3~18 32 3GN□S 3RK15GN-CW2 **25**~180 42 uded by entering **J**, **U** or **E** in the box (**(**) within

Gearhead Model

Gear Ratio

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ne model name.

Motor Model

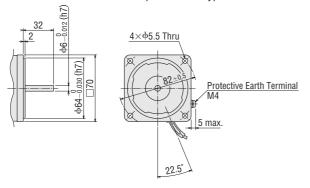


♦ Key and Key Slot (The key is included with the gearhead)



♦ Shaft Section of Round Shaft Type

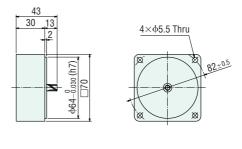
The mass and motor's dimensions (excluding the shaft section) are the same as those of the pinion shaft type.

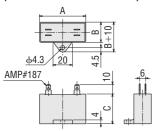


Can be connected to **GN** pinion shaft type.

3GN10XS

Mass: 0.3 kg

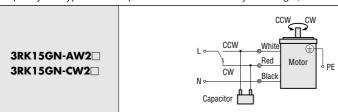




• •	` '							
Mo	odel	Capacitor	Α	В	C	Mass	Capacitor	
Pinion Shaft Type	Round Shaft Type	Model		Б	U	(g)	Cap	
3RK15GN-AW2J	3RK15A-AW2J	CH75CFAUL2	48	21	31	45		
3RK15GN-AW2U	3RK15A-AW2U	CH60CFAUL2	38	21	31	40	Included	
3RK15GN-CW2J	3RK15A-CW2J	CH18BFAUL	38	21	31	35	included	
3RK15GN-CW2E	3RK15A-CW2E	CH15BFAUL	38	21	31	35		

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 (\square) within the model name.



Clockwise:

To rotate the motor in a clockwise (CW) direction, turn the switch to CW.

Counterclockwise:

To rotate the motor in a counterclockwise (CCW) direction, turn the switch to CCW.

PE: Protective Earth

Note:

 $\label{lem:connect} \textbf{Connect a CR circuit to the forward/reverse select switch to protect the contact.}$

EPCR1201-2 is available as an optional surge suppressor. → Page 123