Induction Motors 25 W

□80 mm





Gearheads shown in the photograph are sold separately.

Specifications – Continuous Rating Rolls

Upp Lower	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor			
Lead Wire Type Dimensions ①	Terminal Box Type Dimensions ②	Terminal Box Type Dimensions ③	W	VAC	Hz	A	mN∙m	mN∙m	r/min	μF	
				Single-Phase 220	50	0.27	110	205	1200		
TP 4IK25GN-CW2E	TP 4IK25GN-CW2TE	_	25	Sillyle-Fliase 220	60	0.23	110	170	1450	- 1.5	
(4IK25A-CW2E)	(4IK25A-CW2TE)		23	Single-Phase 230	50	0.27	120	205	1200		
				Sillyle-Filase 230	60	0.23	120	170	1450		
				Three-Phase 200	50	0.23	240	190	1300		
TP 4IK25GN-SW2	TP (41K25GN-SW2T)	_	25	111100-1 11030 200	60	0.21	160	160	1550	_	
(4IK25A-SW2)	(4IK25A-SW2T)			Three-Phase 220	60	0.21	160	160	1600		
				Three-Phase 230	60	0.22	160	160	1600		
				Three-Phase 380	50	0.113	270	205	1200		
─ 4IK25GN-UW2*		─ 4IK25GN-UW2T2*		Thee-Fhase 300	60	0.102	220	170	1450		
(4IK25A-UW2*)	-	(TP) 25		Three-Phase 400	50	0.116	270	205	1200] –	
(411227-0112)				60 0.103		0.103	220	170	1450	1	
				Three-Phase 415	50	0.118	270	205	1200		

• The product name listed on the motor nameplate does not include the code (E) that indicates the type of capacitor.

Certification regarding various safety standards is acquired for the product name on the motor nameplate, please visit www.orientalmotor.eu.

● Safety standards → Page H-2

*These products only conform to the China Compulsory Certification (CCC) System. The CE Marking is affixed.

Note • A three-phase 400 VAC specification motor cannot be used with an inverter. Using them together may lead to deterioration of the motor winding insulation and damage the products. (D): This indicates that there is a built-in thermal protector (automatic return type). If a motor overheats for any reason, the thermal protector is activated and the motor is stopped.

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

Degree of Protection

Туре	Produc	t Name	Degree of Protection		
туре	Pinion Shaft Type	Degree of Protection			
Lead Wire	4IK25GN-CW2E 4IK25GN-SW2 4IK25GN-UW2	4IK25A-CW2E 4IK25A-SW2 4IK25A-UW2	IP20		
Terminal Box	4IK25GN-CW2TE 4IK25GN-SW2T 4IK25GN-UW2T2	4IK25A-CW2TE [*] 4IK25A-SW2T [*] 4IK25A-UW2T2 [*]	IP54		

*Excluding the installation surface of the round shaft type.

Product Line

Motors (RoHS)

Туре	Product Name									
турс	Pinion Shaft Type	Round Shaft Type								
	4IK25GN-CW2E	4IK25A-CW2E								
Lead Wire	4IK25GN-SW2	4IK25A-SW2								
	4IK25GN-UW2	4IK25A-UW2								
	4IK25GN-CW2TE	4IK25A-CW2TE								
Terminal Box	4IK25GN-SW2T	4IK25A-SW2T								
	4IK25GN-UW2T2	4IK25A-UW2T2								

The following items are included in each product. -Motor, Capacitor*, Capacitor Cap*, Operating Manual *Single-phase motors only

High Strength, Long Life, Low Noise V Series

Highest Maximum Permissible torque, 10,000 hours* of life and quiet operation. For more details on V Series see page C-149. *For the rated life time definition, refer to "Service Life of Gearheads" on page G-35.



Parallel Shaft Gearheads/Right-Angle Gearheads (Sold separately) (RoHS)

These products can be attached to pinion shafts.

(earhead Type	Gearhead Product Name	Gear Ratio
Parallel	Long Life, Low Noise	4GN□S	3~180
Shaft	GN-S Gearhead	4GN10XS (Decin	nal gearhead)
Right-Angle	Hollow Shaft Gearhead	4GN RH	3~180
Shaft	Solid Shaft Gearhead	4GN RA	3~180

ullet A number indicating the gear ratio is entered where the box \Box is located within the gearhead product name.

The following items are included in each product. -

- Parallel Shaft Gearhead
- Gearhead, Mounting Screws, Parallel Key, Operating Manual Hollow Shaft Gearhead
- Gearhead, Mounting Screws, Parallel Key, Safety Cover (with screws), Gasket, Operating Manual
- Solid Shaft Gearhead
- Gearhead, Mounting Screws, Parallel Key, Gasket, Operating Manual

¥ 9

15 W

25 W

M 06



Page

Standard AC Motors

Permissible Torque When Gearhead is Attached

A code (T or T2) indicating the terminal box type is entered where the box 🗌 is located within the motor product name.

A number indicating the gear ratio is entered where the box \Box is located within the gearhead product name.

indicates gear shaft rotation in the same direction as the motor shaft. Others rotate in the opposite A colored background 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 to 20% less, depending on the load.

To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead of gear ratio 1:10 between the gearhead and the motor. In that case, the permissible torque is 8 N·m. When a gearhead of 1/25 to 1/36 is attached, the value for permissible torque is 6 N·m.

>50 Hz Unit = N⋅m															$= N \cdot m$						
Product Name	Speed r/min	500	417	300	250	200	167	120	100	83	60	50	42	30	25	20	17	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
4IK25GN-CW2 4IK25GN-UW2	4GN⊡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
4IK25GN-SW2	4GN□S	0.46	0.55	0.77	0.92	1.2	1.4	1.9	2.3	2.8	3.5	4.2	5.0	6.3	7.5	8	8	8	8	8	8

\diamond 60	Hz
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^ **-** - · · ·

	Job HZ Unit = N·m														= N∙m						
Product Name	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
4IK25GN-CW2 _E 4IK25GN-UW2 _	4GN⊡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
4IK25GN-SW2	4GN□S	0.39	0.47	0.65	0.78	0.97	1.2	1.6	1.9	2.3	2.9	3.5	4.2	5.3	6.3	7.9	8	8	8	8	8

Gearmotor – Torque Table When Right-Angle Gearhead is Attached

→ Page C-216

Permissible Overhung Load and Permissible Thrust Load

Motors (Round shaft type) → Page C-16, Gearheads → Page C-16

Permissible Load Inertia: J of Gearhead

→ Page C-17

Dimensions (Unit = mm)

●Mounting screws are included with gearheads. Dimensions for mounting screws → Page C-254 \bullet A number indicating the gear ratio is entered where the box \Box is located within the product name.

\diamond Lead Wire Type (1)



TM Series

Torque Motors

Right-Angle Gearheads

Brake

Pack

Acce

sories

Inst

allation

Torque Motors

Induction Motors

٨9

15 W

25 W

40 W

W 09

2-pole 40 W to 150 W

\bigcirc Terminal Box Type \bigcirc Mass: Motor 1.7 kg Gearhead 0.65 kg 28 max, 75 54 -0.015 (h7) 45 33 φ10-Ø \$34 \$34 \$37 φ79 8 7 L2 $4 \times \phi 5.5$ Thru 80 85 32

Applicable cable diameter is \$\phi 6\$\sigma\$\$\phi 12\$.
Cable glands can be installed in three directions.

● Details of terminal box → Page C-255

\diamondsuit Shaft Section of Round Shaft Type

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

Mass: 1.5 kg (Lead wire type) 1.7 kg (Terminal box type)





 Motor Product Name
 Gearhead Product Name
 Gear Ratio
 L1
 L2

 4IK25GN-UW2T2
 4GN 5
 3~18
 32
 6

 \bigcirc Key and Key Slot (The key is included with the gearhead.)



◇Decimal Gearhead

This can be attached to the **GN** pinion shaft type. **4GN10XS**





\diamondsuit Capacitor

φ4.3

AMP#187

20

(Included with single-phase motors)

B + 10



Upper Product Nam	t Name e: Pinion Shaft Type n (): Round Shaft Type	Capacitor Product Name	A	В	С	Mass (g)	Capacitor Cap		
Lead Wire Type	Terminal Box Type								
4IK25GN-CW2E (4IK25A-CW2E)	4IK25GN-CW2TE (4IK25A-CW2TE)	CH15BFAUL	38	21	31	37	Included		

Connection Diagrams

→ Page C-29

