# Induction Motors 6 W

**□60 mm** 





Gearheads shown in the photograph are sold separately.

#### Specifications – Continuous Rating (RoHS)

# **۵۹℃** « C€

	Product Name and Type Upper Product Name: Pinion Shaft Type Lower Product Name in (): Round Shaft Type		Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor		
	Lead Wire Type Dimensions ①	Terminal Box Type Dimensions ②	W	VAC	Hz	А	mN∙m	mN∙m	r/min	μF		
				Single-Phase 220	50	0.103	38	49	1150	[		
ZP 2	2IK6GN-CW2E	ZP 2IK6GN-CW2BE	6	Single-Flidse 220	60	0.091	40	41	1450	0.6		
	( <b>2IK6A-CW2E</b> )	(2IK6A-CW2BE)		Cinela Dhasa 000	50	0.107	45	49	1200	0.0		
				Single-Phase 230	60	0.094	40	41	1450	1		
				Three-Phase 200	50	0.081	49	49	1200			
ZP 2	2IK6GN-SW2	2IK6GN-SW2B	6	Three-Phase 200	60	0.072	41	41	1400	1 _		
	( <b>2IK6A-SW2</b> )	(21K6A-SW2B)	0	Three-Phase 220	60	0.076	41	41	1500			
				Three-Phase 230	se 230 60 0.079		41	41	1500			

• 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

(**ZP**): These products are impedance protected.

#### Degree of Protection

Туре	Produc	Degree of Protection		
туре	Pinion Shaft Type			
Lead Wire	2IK6GN-CW2E 2IK6GN-SW2	2IK6A-CW2E 2IK6A-SW2	IP20	
Terminal Box	2IK6GN-CW2BE 2IK6GN-SW2B	2IK6A-CW2BE* 2IK6A-SW2B*	IP65	

\*Excluding the installation surface of the round shaft type.

#### Product Line

### Motors (RoHS)

Туре	Produ	ict Name							
туре	Pinion Shaft Type	Round Shaft Type							
Lead Wire	2IK6GN-CW2E	2IK6A-CW2E							
Leau Wile	2IK6GN-SW2	2IK6A-SW2							
Terminal Box	2IK6GN-CW2BE	2IK6A-CW2BE							
Terminal Box	2IK6GN-SW2B	2IK6A-SW2B							
- The following items are included in each product.									

Motor, Capacitor\*, Capacitor Cap\*, Operating Manual \*Single-phase motors only

#### Parallel Shaft Gearheads (Sold separately) (RoHS)

These products can be attached to pinion shafts.

	Gearhead Type	Gearhead Product Name	Gear Ratio
	Long Life, Low Noise	2GN□S	3~180
Shaft	GN-S Gearhead	2GN10XS (Decim	nal gearhead)

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

— The following items are included in each product. —

Gearhead, Mounting Screws, Operating Manual

# 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.



Page

15 W

25 W

40 W

60 W

6 M

M 06

# **Standard AC Motors**

## Permissible Torque When Gearhead is Attached

● A code (B) 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 [] is located within the gearhead product name.
- A colored background indicates gear shaft rotation in the same direction as the motor shaft. 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 to 20% less than the displayed value, 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 3 N·m.

#### **⊘50 Hz**

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
2IK6GN-CW2 2IK6GN-SW2	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

<>60 Hz																				Unit	= 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
2IK6GN-CW2 2IK6GN-SW2	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

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

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

#### ♦ Lead Wire Type ①



I Init – N.m

**Torque Motors** 

## **Induction Motors**

#### ◇Terminal Box Type ②

115

90

♦ Shaft Section of Round Shaft Type

as those of the pinion shaft types. Mass: 0.7 kg (Lead wire type)

0.9 kg (Terminal box type)

The motor's dimensions (excluding the shaft section) are the same

ø 5 max.

22.5°

 $4 \times \phi 4.5$  Thru

• Applicable cables diameter is  $\phi 8 \sim \phi 12$ . ● Details of terminal box → Page C-255

Mass: Motor 0.9 kg Gearhead 0.4 kg

46.5



Motor Product Name	Gearhead Product Name	Gear Ratio	L1	L2
2IK6GN-CW2BE	2GN⊐S	3~18	30	5
2IK6GN-SW2B	20N_3	25~180	40	5

 $\bigcirc$  Decimal Gearhead

This can be attached to the **GN** pinion shaft type. 2GN10XS





(L7) -0.012 ( 24

-9φ

ö.030 (h7)

25

<u>]</u>60

2

Protective Earth Terminal M4

(Lead wire type only)

◇Capacitor

200 W BH Serie:



#### ◇Capacitor Dimensions (mm)

Produc Upper Product Nam Lower Product Name i	Capacitor Product Name	A	В	С	Mass (g)	Capacitor Cap	
Lead Wire Type	Terminal Box Type	1					
2IK6GN-CW2E (2IK6A-CW2E)	2IK6GN-CW2BE (2IK6A-CW2BE)	CH06BFAUL	31	14.5	23.5	18	Included

#### Connection Diagrams

→ Page C-29



15 W

25 W

40 W

00 V

M 06

Box Tyl 6 W to 4

62

max

32

6 W