Oriental motor

KII KIIS





Challenge for Standardization of Next-Generation Motors

Oriental Motor has been positioned as the global benchmark of the Standard AC Motors for half a century. New products are now available with the performance and usability required for compact standard AC motors of the new generation. These products reflect our legendary advanced technology and the voices of countless customers. High-Strength gears stretch the limits of the motor, while highly efficient motors are designed specially for the new generation. In addition, prices are kept affordable with great usability for our customers. The **KII** and **KIIS** Series are setting a new benchmark for Standard AC Motors all over the world.

- High Reliability with High-Strength Gearhead
- High-Performance Motor with High Energy Efficiency
- User-Friendly Design Reflecting the Voices of countless Customers
- Guaranteed Support from Model Selection to After-Sales Service



New Generation/New Standard AC Motors

Single-Phase Induction Motors

KII Series

Three-Phase High-Efficiency Induction Motors

KIIS Series

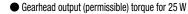
High-Intensity Gear Head, High Reliability.

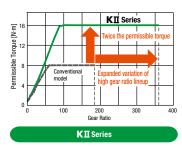


High Permissible Torque

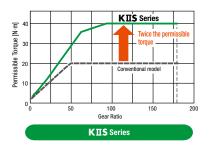
The permissible torque is twice that of conventional models

Increase in the strength of the gear raises the maximum permissible torque to twice the torque when compared with conventional models. A torque range that was unavailable can now be used.





Gearhead output (permissible) torque for 100 W





High Strength

Permissible load is twice that of conventional models*

The strength of the permissible radial load and the permissible axial load is twice that of the conventional model.

*Remains the same in some products.





KII Series 4GV
Permissible radial load
450 N
Permissible axial load
100 N



Long Life

The rated life is twice that of the conventional model

The large bore bearing used for this model extends the gearhead's rated life to 10,000 hours, which is twice that of the conventional model. This reduces the maintenance work for the device.

Rated life hours: Definition determined by Oriental Motor. For details, contact Oriental Motor.

Conventional model Twice the rated life 10,000 hours N I Series K I Series K IS Series



Silent

Reduced gear contact noise by 6 dB

Noises from motor/gearhead contact have been reduced by 6 dB compared with the conventional standard motor.

50 dB

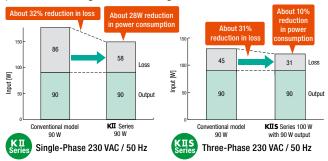
The Highest Level of Highly Efficient Motor.



High Performance Motor Installed

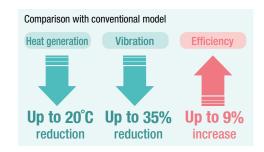
High efficiency

The optimal magnetic design and dedicated parts have dramatically reduced losses, achieving high efficiency. Compared with the conventional model under the same conditions, this model needs less power, contributing to a labor-saving device.



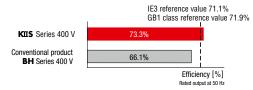
Low heat generation and low vibration

With less heat generation and vibration of the motor, achieved by reduced losses, the reliability of the device has increased.



High Efficiency Type IE3 and IE4

A motor efficiency of 77.8% (IE4, rated output power) and 73.3% (IE3) is achieved with optimal magnet design and specialized parts. Loss is greatly reduced, the motor's output is increased, and it is fanless.





Environmental Resistance

Fan-less structure

Reduction in loss has reduced the heat generation in the motor. Therefore, the **KII** Series's single-phase 220/230 VAC 50 Hz type and the **KIIS** Series do not require the cooling fan that was installed in the conventional models of 60 W or higher, resolving the problem of raising dust.



IP66 water resistance specification

The sealing structure of the motor, gearhead, and terminal box has been strengthened. The terminal box type* conforms to the IP66 rating degree of protection.



* Excluding the installation surface of the round shaft type IP66: The IP indication that shows the water-resistant and dust-resistant performance is specified under IEC 60529 and IEC 60034-5.

Induction Motor Terminal Box Type

Main specification

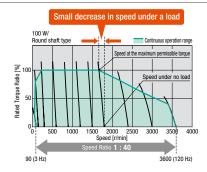
Material Case and terminal box: Aluminum Output shaft: S45C Screw: Stainless steel (Exposed part only)

Surface treatment Case and terminal box: Painted (Except the installation surface)

Best For Combination With An Inverter (KIIS Series only)

Variable speed control

By combining with an inverter, you can control the speed in a wide range from the low speed at 3 Hz to the high speed at 100 Hz. Even at a low speed, high torque is produced. In addition, less variation under loads enables more stable speed control.



About use with an inverter of other manufacturers

For easy use of an inverter, we provide, for your reference, the "Speed - Torque characteristics" and "Parameter settings for the inverter" when this product is combined with an inverter of another manufacturer. For details, contact our customer support center.

User-Friendly Design of The Gears and Motors.



High Gear Ratio

The overall length is reduced by the removal of the decimal gearhead

The gearhead lineup offers a wide range of gear ratios from low gear ratios up to a maximum of 1:360. For the high gear ratio at 1:180, the decimal gearhead was previously required. Now, only one gearhead is required, achieving a saving of space.

* K ${\rm I\hspace{-.1em}I}$ Series For the output of 6 W to 25 W

KII Series For 40 W and 60 W, up to 1:300; For 90 W, up to 1:180

KIIS Series For 60 W, up to 1:300; For 100 W, 1:180

● For a gear ratio of 1:360 (25 W) Decimal gear speed ratio at 1:10 Gear ratio at 1:36

159.5 mm

Conventional model

136 mm **KII** Series

Output Axis Tapping

For motors with 25 W output power or higher, tapping has been applied to the output shaft end. This prevents the pulley and other transmission parts from coming off.



Shortened

Increase In Installation Accuracy

The installation surface and pilot of the gearhead are polished. The gearhead can be installed into the device more accurately.

Į

Uses a hypoid gear with built-In Oil Seal

Less grease leakage

Oil seal is installed in the final stage of the output shaft. This prevents grease from leaking. Furthermore, 40 W and higher motors use a special oil seal with high sealing performance. This provides highly reliable measures against grease leakage.

Hypoid gear used on first step of reducer
 High-strength helical gear installed on last step to increase strength

 Oil seal
 Grease leak measures implemented
 Special oil seal used to enhance seal performance

Combination Type

Pre-assembled gearhead

The combination type comes with a motor and a gearhead pre-assembled. This type makes the installation into the device easy, and you no longer have to worry about giving damage to the shaft, which may cause abnormal noise.

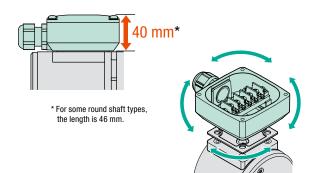


< What is the combination type? >
The combination type comes with the motor and gearhead pre-assembled with dedicated screws. Motors and gearheads are also available individually for maintenance.

Slim Terminal Box

Improvement in workability

A slim terminal box is used to make wiring work easier. The box is slimmer than conventional products. The cable outlet can be changed by 90 degrees to four different directions. The slim terminal box type conforms to the IP66 rating degree of protection. (Except the installation surface of the round shaft type)



Cost Performance

High performance at an affordable price

This model is affordably priced, equivalent to or less than conventional models, while increasing in strength and efficiency.



World **K** Series 25 W Three-Phase power supply input **GN-K** Series Gear ratio at 1:100





KII Series
25 W Three-Phase power supply input
Combination-type gearhead
Gear ratio at 1:100

International Standards

Conforms to safety standards

This series conforms to the UL/CSA Standards and the China Compulsory Certification System (CCC System), and is also affixed with the CE Marking (Low Voltage Directive).



Energy Efficiency Regulation in China Conforms to the First Grade (GB25958-2010) (KII Series only)

KII Series 220 VAC/230 VAC 50 Hz (except the 6 W type), we provide products obtaining certification under the China Certificate for Energy Conservation Products (CQC31-461113-2011).



Services Before Purchasing Our Products How to Inquire on Our Products.



Inquiries



> First, please contact the Customer Support Center.



Customer Center

Dedicated staff can assist you with any inquires regarding product selection, use of motors and any other technical issues by phone, e-mail or fax.

Support in German & English

Fel.: 00800-22 55 66 22* CA LL OM CC * Free Call Europe

Mon-Thu: 08:00 - 17:30 CET Friday: 08:00 - 16:00 CET

E-mail address: info@orientalmotor.de

Please refer to page 11 to contact us from the UK, France or Italy.



No Minimum Order Quantity

We have developed the business base in the whole world.

You can purchase our products directly from us by telephone, fax or through our website. Minimum order is one item.

Direct Backup in Various Situations

We continue to provide information related to "movement" and directly support our customers from the moment they consider "movement" untill after they purchase the product.

We have exhibitions and technical seminars at various location, and provide the latest product information through publications, website and e-mail newsletter. Face to Face - We support customers anytime, anywhere.

Services Before Purchasing Our Products To Understand More on Our Products.



Technical Seminars



"I want to know how the motor operates"
"I want to use motors appropriately depending on their application."

Please attend our Technical Seminar.



▶ Technical Seminars

Dedicated trainers will go through from basic motor knowledge to the applied technology and selection of the right motor. In addition, on-site seminars are also available.

You can register for our seminars from our website.



Demonstration, Confirmation and Operation of Products



"I want to know about the latest models."
"I want to check the actual movements and sounds."
"Can I check the operations with a sample?"

You can check our products at motor fairs and exhibitions.



▶Exhibitions

We participate in major exhibitions in order to reach our customers and make our products better known. For information on exhibition schedules, feel free to contact us.



Motor Selection Service



"Which one is suitable for this application?"
"It's a hassle to calculate torque for selection."

Please use our selection service.



► Motor Selection Service

We provide motor selection service, such as calculation of torque, to assist our customers in selecting the right product.

*Motor selection service available on Oriental Motor website.



Types of Support and Services During- and After- Purchases



Purchasing

You can purchase our products through the telephone, Fax or the internet from one item onward!

Inquiries for Orders and Quotation



- "I want estimates of price and delivery."
- "I want to order a product."
- "I want to ask about payment."

For inquiries on purchase and modes of transaction, and for orders, please contact or use below:



Customer Support Website Sales Offices

Internet

Get prices and delivery times for small quantities directly in the webshop, for higher quantities use the "Saved Items" function to get a quotation.



After Purchase (Technical Support)



"Suddenly the motor stopped working."
"An error seems to have occurred,

but I have no idea of the cause and how to handle it."

To avail a visit from a service engineer and for inspection and troubleshooting, please use below:



Inspection and Repair Service

Inspection and Repair

Oriental Motor offers free inspection services. Feel free to contact us if you have encountered any problems with or damage to Oriental Motor products. If repair is required, we will advice on the applicable charges. Kindly note that free repair is available if products are used in accordance with the warranty conditions.



Sales Network

Europe





- Oriental Motor Headquaters
- Subsidiary Sales Office

StuttgartMunich

United Kingdom Spain Germany **France** Italy Düsseldorf Madrid London Paris Milan Hamburg Birmingham Lyon Bologna Jena Verona Frankfurt

For more information, kindly contact us at:

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European Headquarters



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Italy Headquarters



Italy Headquarters Via A. De Gasperi, 85 20017 Mazzo di Rho (MI) (Italy) Telephone: 02 9390 6346 Fax: 02 9390 6348 info@orientalmotor.it

Features



Features and Lineup

Excellent motor characteristics

- The motors were specifically designed according to the power supply voltage of each country, achieving the increase in the motor efficiency by up to 9%.
- With less heat generation and vibration of the motor, the reliability of the device has increased.

High Permissible Torque

The maximum permissible torque is up to twice as much as the conventional model.

High strength

The permissible radial load and the permissible axial load are twice as much as the conventional model.

High gear ratio gearhead

The gearhead lineup offers a wide range of gear ratio up to a maximum of 1:360.

Combination type of pre-assembled gearhead

The combination type comes with a gearhead and a motor pre-assembled.

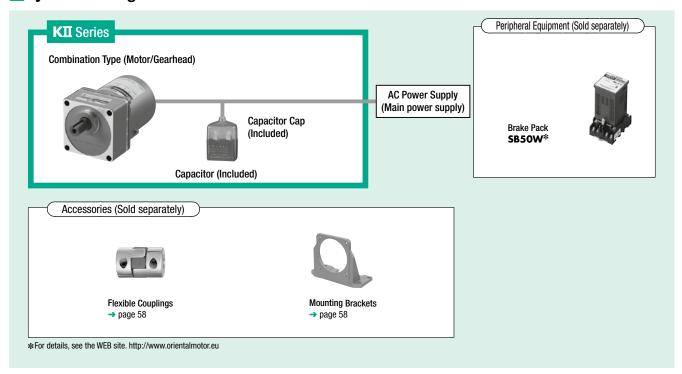
Slim terminal box (Terminal box type)

A slim terminal box is installed for easy wiring. This box conforms to the Degree of Protection IP66. (Excluding the installation surface of the round shaft type)

Lineup

Frame Size	60 mm~90 mm
Output Power	Terminal Box Type: 25 W∼90 W
output i owei	Lead Wire Type: 6 W~90 W
Voltage	Single-Phase 110/115 VAC, Single-Phase 220/230 VAC
Туре	Combination Type/Round Shaft Type

System Configuration



System Configuration Example

		Sold Se	parately
Induction Motor	+	Mounting Brackets	Flexible Couplings
4IK25UC-25		SOL4M6F	MCL401515

The system configuration shown above is an example. Other combinations are available.

Product Number Code

Combination Type

5 I K 40 GC T2 - 100

(1) (2) (3) (4) (5) Round Shaft Type

1	Motor Frame Size	2 : 60 mm 3 : 70 mm 4 : 80 mm 5 : 90 mm
2	Model Name	I: Induction Motor
3	Series Name	K: KII Series
4	Output Power (W)	(Example) 40 : 40 W
(5)	Power Supply Voltage	UA : Single-Phase 110/115 VAC (60 Hz) GC : Single-Phase 220/230 VAC (50 Hz) UC : Single-Phase 220/230 VAC (60 Hz)
6	T2: Terminal Box Type	
7	Gear Ratio/Shaft Configuration	Number: Gear Ratio for Combination Types A: Round Shaft Type

General Specifications

Item	Specifications									
Insulation Resistance	e measured value is $100 \text{ M}\Omega$ or more when a 500 VDC megger is applied between the windings and the case after rated operation under normal ambient nperature and humidity.									
Insulation Resistance	No abnormality is judged even with application of AC1.5 kV at 50 Hz or 60 Hz between the windings and the case for 1 minute after rated operation under normal ambient temperature and humidity.									
Temperature Rise	gearhead or equivalent heat sink* ¹ is connected and the winding temperature rise is measured at 80°C or less using the resistance change method after rated eration under normal ambient temperature and humidity.									
Heat-Resistant Class	130 (B)									
Overheat Protection Device	6 W Type Impedance Protected Other Types Built-in Thermal Protector (Automatic return type) Open: 130±5°C Close: 85±20°C =									
Operating Ambient Temperature	-10~+40°C (non-freezing)									
Operating Ambient Humidity	85% or less (non-condensing)									
Degree of Protection	Lead Wire Type : IP20 Terminal Box Type : 25 W, 40 W Type IP66*2 (Excluding the installation surface of the round shaft type) : 60 W, 90 W Type IP54 (Excluding the installation surface of the round shaft type), 60 W GC type is IP66*2 (Excluding the installation surface of the round shaft type)									

*1 Heat sink size (Material: Aluminum)

Motor Type	Size (mm)	Thickness (mm)
6 W Type	115×115	
15 W Type	125×125	
25 W Type	135×135	5
40 W Type	165×165	
60 W, 90 W Type	200×200	

*2 Material and surface treatment

Material

Case and terminal box: Aluminum

Output shaft: S45C

Screw: Stainless steel (Exposed part only)

Surface treatment

Case and terminal box: Painted (Except the installation surface)

KII/KIIS Series lineup

Each model is specifically designed according to the power supply specification, delivering the optimal performance in your power source environment.

Series				K	П		KIIS								
Output Power	[W]	6	15	25	40	60	90	60		100		200			
Frame Size	[mm]	□60	□70	□80		□90			□90		□110				
Power Supply		Single-Phase 110/115 VAC 60 Hz Single-Phase 220/230 VAC 50 Hz Single-Phase 220/230 VAC 60 Hz Three-Phase 220/230 VAC 50/60 Hz Three-Phase 220/230 VAC 50/60 Hz Three-Phase 380/40 50/60 Hz									/60 Hz 380/400/415 VAC				
Motor Type		Induction Motor Induction Motor Electromagnetic Brake Motor										or			
Туре		Combination Type Round Shaft Type										pe pe			
Wire Type		Lead	Wire			Lead Wire Terminal Terminal Box Type Box Type						ld Wire al Box Type			
Series			K	1			КШЅ								
Model			Induction	n Motor		Induc	ction Motor			Electromagnet	ic Brake Motor				
Lead Wire Type															
		Combinat	tion Type	Round Sha	aft Type	Combination Ty	ype Round	l Shaft Type	Hollow	Shaft Type	Combination Type	Round Shaft Type			
Terminal Box Type							8		5					(3) P	
		Combinat	tion Type	Round Sha	aft Type	Combination Ty	ype Round	l Shaft Type	Solid	Shaft Type	pe Combination Type Round Shaft Type				

6 W 110–230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

ΚIIS

60 W 220, 230 VAC

100 W

100 W 220, 230 VAC 100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220-400 VAC

KIIS Series

> 60 W 220, 230 VAC

gnetic 100 W 220, 230 VAC

6 W

□60 mm

Combination Type, Round Shaft Type



Specifications - Continuous Rating

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Product Name Upper Level: Combination Type Lower Level: Round Shaft Type	Output Power	Voltage	Frequency	Current*	Starting Torque	Rated Torque	Rated Speed	Capacitor	Overheat Protection Device
Lead Wire Type	W	VAC	Hz	Α	mN·m	mN·m	r/min	μF	Bovico
2IK6UA-□	6	Single-Phase 110	60	0.185 (0.179)	40	41	1450	2.5	
2IK6A-UA	U	Single-Phase 115	00	0.189 (0.184)	40	41	1430	2.5	
2IK6GC-□	6	Single-Phase 220	50	0.088	32	49	1150	0.6	ZP
2IK6A-GC	0	Single-Phase 230	30	0.090	36	43	1200	0.0	ZF
2IK6UC-□ 2IK6A-UC	6	Single-Phase 220	60	0.093 (0.090)	40	41	1450	0.6	
	O	Single-Phase 230	00	0.096 (0.093)	40	41	1450	0.0	

^{* ()} indicates the value of the round shaft type.

Product Line

Combination Type	The combination type comes with a motor and a gearhead pre-assembled. The combination of the motor and the gearhead can be changed. They are also available separately. You can also remove the gearhead to change the installation position by 90°.	Combination Type	Motor .	Gearhead
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Combination Type

Product Name	Gear Ratio
	5, 6, 7. 5, 9, 12 . 5, 15, 18
2IK6UA-□	25, 30, 36
ZIKOUA-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360
	5, 6, 7. 5, 9, 12 . 5, 15, 18
2IK6GC-□	25, 30, 36
ZIKOGC-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360
	5, 6, 7. 5, 9, 12.5, 15, 18
2IK6UC-□	25, 30, 36
ZIKOUC-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360

The following items are included in each product. -

Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type

Product Name
2IK6A-UA
2IK6A-GC
2IK6A-UC

- The following items are included in each product.

Motor, Capacitor, Capacitor Cap, Operating Manual

 $[\]hfill \blacksquare$ The specifications apply to the motor only.

 $^{{\}sf ZP}{:}$ These products are impedance protected.

 $[\]blacksquare$ A number indicating the gear ratio is entered where the box \square is located within the product name.

Permissible Torque on Combination Types

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.

●50 Hz Unit: N·m

Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3	6	5	4.1
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
2IK6GC-□		0.22	0.26	0.33	0.40	0.55	0.66	0.79	1.1	1.3	1.5	2.1	2.5	3.2	3.8	4.2	5.1	6	6	6	6	6

60 Hz Unit : N·m Speed r/min 360 300 240 200 144 | 120 100 72 60 50 36 30 24 20 18 15 12 10 7.2 6 5 Product Name 5 7.5 9 12.5 15 18 25 30 36 50 90 100 120 150 180 250 300 360 Gear Ratio 6 60 75 2IK6U**■**-□ 0.18 | 0.22 | 0.28 | 0.33 | 0.46 | 0.55 | 0.66 | 0.92 1.1 1.3 1.8 2.6 3.2 3.5 4.2 5.0

Permissible Radial Load/Permissible **Axial Load**

Permissible Inertia J of Combination **Types**

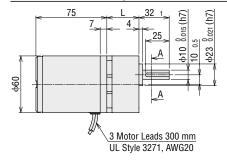
→ page 32 → page 32

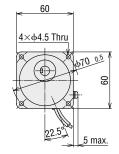
Dimensions (Unit = mm)

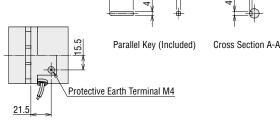
■ "Installation screws" are included with the combination type. Dimensions of installation screws → page 31

Lead Wire Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
OUZZIIII 🗆	01K/C// LI		5~25	34	
2IK6U -□ 2IK6GC-□	2IK6GV-UⅢ 2IK6GV-GC	2GV□B	30~120	38	1.2
	ZIROOV OC		150~360	43	



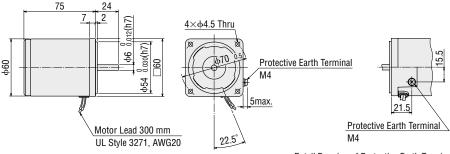




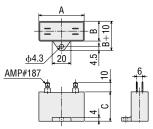
Detail Drawing of Protective Earth Terminal

2IK6A-U**■**, 2IK6A-GC

Mass: 0.7 kg



Detail Drawing of Protective Earth Terminal



						Unit : mm
Produc	t Name	Capacitor	Α	В	С	Mass
Combination Type	Round Shaft Type	Product Name	^	Ь В		g
2IK6UA-□	2IK6A-UA	CH25FAUL2	31	17	27	21
2IK6GC-□	2IK6A-GC	CH06BFAUL	31	14.5	23.5	18
2IK6UC-□	2IK6A-UC	CH06BFAUL	31	14.5	23.5	18

Capacitor Cap is included.

6 W 110–230 VAC

110-230 VAC

25 W 110-230 VAC

40 W 110-230 VAC

60 W 110-230 VAC

90 W 110-230 VAC

ΚIIS

220, 230 VAC

100 W 220, 230 VAC

220, 230 VAC

200 W 220-400 VAC

KIIS Series

> 60 W 220, 230 VAC

100 W

15 W

□70 mm

Combination Type, Round Shaft Type



Specifications - Continuous Rating

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Product Name Upper Level: Combination Type Lower Level: Round Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	Overheat Protection Device
Lead Wire Type	W	VAC	Hz	Α	mN·m	mN⋅m	r/min	μF	Bovico
3IK15UA-□	15	Single-Phase 110	60	0.31	65	105	1450	4.0	
3IK15A-UA	13	Single-Phase 115	00	0.31	0.5	103	1430	4.0	
3IK15GC-□	15	Single-Phase 220	50	0.156	80	125	1200	1.2	TP
3IK15A-GC	15	Single-Phase 230	30	0.157	90	125	1200	1.2	l IF
3IK15UC-□	15	Single-Phase 220	60	0.154	65	105	1450	1.0	
3IK15A-UC	10	Single-Phase 230	00	0.155	05	105	1430	1.0	

The specifications apply to the motor only.

Product Line

Combination	The combination type comes with a motor and a gearhead pre-assembled. The combination of the motor and the gearhead can be changed.	Combination Type	Motor	Gearhead
Туре	They are also available separately. You can also remove the gearhead to change the installation position by 90°.			+

Combination Type

Product Name	Gear Ratio
	5, 6, 7. 5, 9, 12 . 5, 15, 18
3IK15UA-□	25, 30, 36
SIK I SUA-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360
	5, 6, 7. 5, 9, 12.5, 15, 18
3IK15GC-□	25, 30, 36
3IK I 3GC-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360
	5, 6, 7. 5, 9, 12.5, 15, 18
3IK15UC-□	25, 30, 36
31K 130C-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360

The following items are included in each product. -

Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type

Product Name
3IK15A-UA
3IK15A-GC
3IK15A-UC

- The following items are included in each product.

Motor, Capacitor, Capacitor Cap, Operating Manual

TP: 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.

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

90 100 120 150 180 250 300 360

Permissible Torque on Combination Types

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.

> 200 144 120 100 72 60 50 36 30 24 20 18 15 12 10 7.2

9

0.71 0.85

12.5 15

50 Hz

Unit: N·m Speed r/min 300 250 200 166 120 100 83 60 50 41 30 25 20 16.6 15 12.5 10 8.3 6 5 4.1 Product Name 180 250 300 360 5 6 7.5 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 3IK15GC-□ 0.68 0.84 2.8 3.9 5.4 9.7 10 10 10

30

36 50 60 75

Types

18 25

1.7 2.4 2.7 3.3 4.5 5.4 6.8 8.1 9.0 10 10 10 **15 W** 110–230 VAC

110-230 VAC

●60 Hz

Product Name

3IK15U**■**-□

 $Unit: N{\cdot}m$ 6 5

25 W 110-230 VAC

40 W

110-230 VAC

60 W 110-230 VAC

90 W

110-230 VAC

Permissible Radial Load/Permissible **Axial Load**

360 300 240

5 6 7.5

0.47 0.57

Speed r/min

Gear Ratio

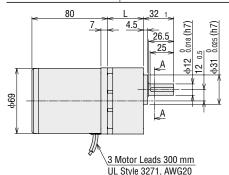
→ page 32 → page 32

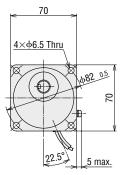
Dimensions (Unit = mm)

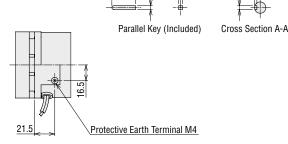
■ "Installation screws" are included with the combination type. Dimensions of installation screws → page 31

Lead Wire Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
AIK1 ELIE 🗆	211/1501/11		5~25	38	
3IK15U □ -□ 3IK15GC-□	3IK15GV-UⅢ 3IK15GV-GC	3GV□B	30~120	43	1.7
SIK I SOC-	3111304 00		150~360	48	





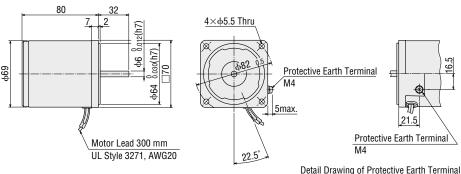


Permissible Inertia J of Combination

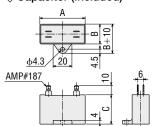
Detail Drawing of Protective Earth Terminal

3IK15A-UⅢ, 3IK15A-GC

Mass: 1.1 kg



Capacitor (Included)



						Unit : mm
Product Name		Capacitor	A	В	_	Mass
Combination Type	Round Shaft Type	Product Name	A	Б	U	g
3IK15UA-□	3IK15A-UA	CH40FAUL2	37	18	27	26
3IK15GC-□	3IK15A-GC	CH12BFAUL	37	18	27	28
3IK15UC-□	3IK15A-UC	CH10BFAUL	37	18	27	27

Capacitor Cap is included.

■ Either A or C indicating the power supply voltage is replaced with the box I in the product name. A number indicating the gear ratio is entered where the box \square is located within the product name.

100 W 220, 230 VAC

ΚIIS

100 W 220, 230 VAC

220, 230 VAC

200 W 220-400 VAC

KIIS Series

> 60 W 220, 230 VAC

100 W

25 W

□80 mm

Combination Type, Round Shaft Type



Specifications - Continuous Rating

c FU °us	((()	ϵ
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Upper Level: Co	ct Name ombination Type ound Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	Overheat Protection Device
Terminal Box Type	Lead Wire Type	W	VAC	Hz	Α	mN·m	mN∙m	r/min	μF	Device
4IK25UAT2-□	4IK25UA-□	25	Single-Phase 110	60	0.44	120	170	1450	6.0	
4IK25A-UAT2	4IK25A-UA	23	Single-Phase 115	00	0.43	120	170	1450	0.0	
4IK25GCT2-□	4lK25GC-□	25	Single-Phase 220	50	0.23	120	205	1200	1.8	TP
4IK25A-GCT2	4IK25A-GC	25	Single-Phase 230	30	0.23	130	203	1200	1.0	15
4IK25UCT2-□	4IK25UC-□	25	Single-Phase 220	60	0.22	110	170	1450	1.5	
4IK25A-UCT2	4IK25A-UC	25	Single-Phase 230	00	0.22	120	170	1450	1.5	

The specifications apply to the motor only.

Product Line

	The combination type comes with a motor and a gearhead pre-assembled.	Combination Type	Motor	Gearhead
Combination	The combination of the motor and the gearhead can be changed.			
Туре	They are also available separately.			+
	You can also remove the gearhead to change the installation position by 90°.			

Combination Type

Gear Ratio
5, 6, 7. 5, 9, 12 . 5, 15, 18
25, 30, 36
50, 60, 75, 90, 100, 120, 150, 180
250, 300, 360
5, 6, 7. 5, 9, 12.5, 15, 18
25, 30, 36
50, 60, 75, 90, 100, 120, 150, 180
250, 300, 360
5, 6, 7. 5, 9, 12.5, 15, 18
25, 30, 36
50, 60, 75, 90, 100, 120, 150, 180
250, 300, 360

The following items are included in each product. -

Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type minal Box Type

♦ Terminal Box	Iy
Product Name	
4IK25A-UAT2	_
4IK25A-GCT2	_
4IK25A-UCT2	_

♦ Lead Wire Type
Product Name
4IK25A-UA
4IK25A-GC
4IK25A-UC

Product Name	Gear Ratio
Floudet Name	3.7.0
	5, 6, 7. 5, 9, 12.5, 15, 18
4IK25UA-□	25, 30, 36
4IK25UA-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360
	5, 6, 7. 5, 9, 12.5, 15, 18
4IK25GC-□	25, 30, 36
4IK25GC-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360
	5, 6, 7. 5, 9, 12.5, 15, 18
4IK25UC-□	25, 30, 36
4IK25UC-	50, 60, 75, 90, 100, 120, 150, 180
	250, 300, 360

The following items are included in each product. -Motor, Capacitor, Capacitor Cap, Operating Manual

TP: 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.

Permissible Torque on Combination Types

- 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.

■50 H₇

5 0 HZ																					Ur	nit : N∙m
Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3	6	5	4.1
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
4IK25GC□-□		0.92	1.1	1.4	1.7	2.3	2.8	3.3	4.6	5.3	6.3	8.8	10.6	13.2	15.9	16	16	16	16	16	16	16

60 Hz Unit: N.m Speed 360 300 240 200 144 120 100 72 60 50 36 30 24 20 18 15 12 10 7.2 6 5 **Product Name** r/min Gear Ratio 5 6 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180 250 300 360 4IK25U 0.77 0.92 1.4 1.9 2.8 3.8 5.3 8.8 11.0 13.2 14.6

Permissible Radial Load/Permissible Axial Load

→ page 32

Permissible Inertia J of Combination Types

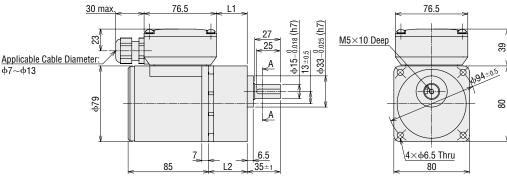
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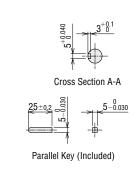
■ Dimensions (Unit = mm)

- "Installation screws" are included with the combination type. Dimensions of installation screws → page 31
- The cable outlet of the terminal box can be changed and fixed to four different directions.

Terminal Box Type

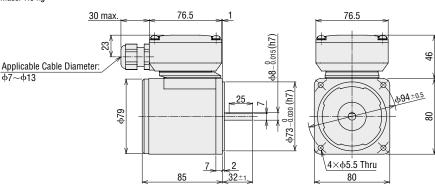
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L1	L2	Mass kg
4IK25U■T2-□ 4IK25GCT2-□	AIKO ECO A LIETO		5~25	32.6	41	
	4lK25GV-U■T2 4lK25GV-GCT2	4GV□B	30~120	37.6	46	2.75
			150~360	42.6	51	1





◇Round Shaft Type 4IK25A-U■T2, 4IK25A-GCT2

Mass: 1.8 kg



■ Either A or C indicating the power supply voltage is replaced with the box I in the product name.
A code (T2) indicating the terminal box type is replaced with the box I in the product name.
A number indicating the gear ratio is entered where the box I is located within the product name.

II orios

> 6 W 110–230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

> 100 W 220, 230 VAC Hollow/Solid Shaf

200 W 220–400 VAC

KIIS Series

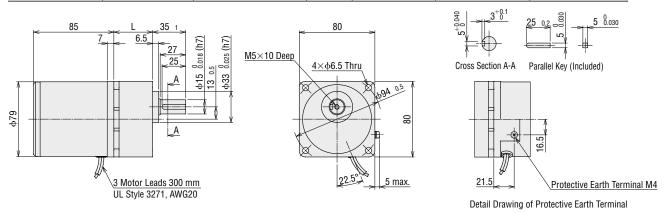
> 60 W 220, 230 VAC

100 W 220, 230 VA

Lead Wire Type

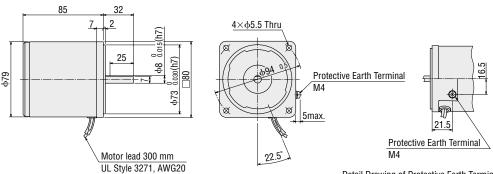
\Diamond Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Mass kg	Gear Ratio 5 ∼ 25	Gear Ratio 30~120	Gear Ratio 150~360
Floudet Name	Wiotor Froduct Warrie	deamead i roddet Name	Wass Ng	L	L	L
4IK25U □ -□ 4IK25GC-□	4lK25GV-U□ 4lK25GV-GC	4GV□B	2.45	41	46	51

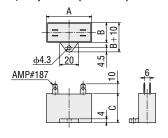


◇Round Shaft Type 4IK25A-U, **4IK25A-GC**

Mass: 1.5 kg



Detail Drawing of Protective Earth Terminal



						Unit : mm
Produc	Capacitor	Α	В	С	Mass	
Combination Type	Round Shaft Type	Product Name	^	ь	"	g
4IK25UAT2-□ 4IK25UA-□	4IK25A-UAT2 4IK25A-UA	CH60CFAUL2	38	21	31	35
4IK25GCT2-□ 4IK25GC-□	4IK25A-GCT2 4IK25A-GC	CH18BFAUL	38	21	31	37
4IK25UCT2-□ 4IK25UC-□	4IK25A-UCT2 4IK25A-UC	CH15BFAUL	38	21	31	37

Capacitor Cap is included.

40 W

□90 mm

Combination Type, Round Shaft Type



Terminal Box Type L

and Wire Type

15 W 110–230 VAC

110-230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

T.C.

KIIS Series

220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220–400 VAC

KIIS Series

> 60 W 220, 230 VAC

100 W Ba 220, 230 VAC

Specifications - Continuous Rating

			_							
Upper Level: Co	ot Name ombination Type ound Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	Overheat Protection Device
Terminal Box Type	Lead Wire Type	W	VAC	Hz	Α	mN∙m	mN∙m	r/min	μF	DOVIGO
5IK40UAT2-□	5IK40UA-□	40	Single-Phase 110	60	0.66	200	260	1500	9.0	
5IK40A-UAT2	5IK40A-UA	40	Single-Phase 115	00	0.65	200	200	1300	3.0	
5IK40GCT2-□	5IK40GC-□	40	Single-Phase 220	50	0.34	170	315	1250	2.5	TP
5IK40A-GCT2	5IK40A-GC	40	Single-Phase 230	30	0.33	195	300	1300	2.3	IF
5IK40UCT2-□	5IK40UC-□	40	Single-Phase 220	60	0.33	200	260	1500	2.0	
5IK40A-UCT2 5IK40A-UC	40	Single-Phase 230] 60	0.32	200	200	1500	2.0		

The specifications apply to the motor only.

Product Line

	The combination type comes with a motor and a gearhead pre-assembled.	Combination Type	Motor	Gearhead
Combination	The combination of the motor and the gearhead can be changed.			
Туре	They are also available separately.			+
	You can also remove the gearhead to change the installation position by 90°.			

♦ Lead Wire Type

Product Name

5IK40UA-□

5IK40GC-□

5IK40UC-

Combination Type

✓ Terminal box Type						
Gear Ratio						
5, 6, 7. 5, 9, 12.5, 15, 18						
25, 30, 36						
50, 60, 75, 90, 100, 120, 150, 180						
250, 300						
5, 6, 7. 5, 9, 12.5, 15, 18						
25, 30, 36						
50, 60, 75, 90, 100, 120, 150, 180						
250, 300						
5, 6, 7. 5, 9, 12.5, 15, 18						
25, 30, 36						
50, 60, 75, 90, 100, 120, 150, 180						
250, 300						

The following items are included in each product.

Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type

Product Name
5IK40A-UAT2
5IK40A-GCT2
5IK40A-UCT2

♦Lead	Wire	Тур

⇒Lead Wire	туре
Product Name	
5IK40A-U	١
5IK40A-G0	3
51K40A-UC	•

The following items are included in each product. Motor, Capacitor, Capacitor Cap, Operating Manual

Gear Ratio 5, 6, 7.5, 9, 12.5, 15, 18 25, 30, 36

50, 60, 75, 90, 100, 120, 150, 180

250, 300 5, 6, **7.**5, 9, 12.5, 15, 18

25, 30, 36

50, 60, 75, 90, 100, 120, 150, 180 250, 300

5, 6, **7.**5, 9, 12.5, 15, 18

25, 30, 36

50, 60, 75, 90, 100, 120, 150, 180 250, 300

TP: 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.

Permissible Torque on Combination Types

- 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.

■50 Hz

Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3	6	5
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK40GC□-□ (Singl	e-Phase 230VAC)	1.4	1.6	2.0	2.4	3.4	4.1	4.9	6.5	7.7	9.3	12.9	15.5	19.4	23.2	25.8	29.2	30	30	30	30
5IK40GC□-□ (Singl	e-Phase 220VAC)	1.4	1.7	2.1	2.6	3.5	4.3	5.1	6.8	8.1	9.8	13.5	16.3	20.3	24.4	27.1	30	30	30	30	30

Unit: N-m

●60 Hz

Unit : N-m

Speed 360 300 240 200 144 120 100 72 60 50 36 30 24 20 18 15 12 10 72 6

Product Name	Speed r/min	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	7.2	6
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK40U II -		1.2	1.4	1.8	2.1	2.9	3.5	4.2	5.6	6.7	8.0	11.2	13.4	16.8	20.1	22.4	25.3	30	30	30	30

Permissible Radial Load/Permissible Axial Load

→ page 32

Permissible Inertia J of Combination Types

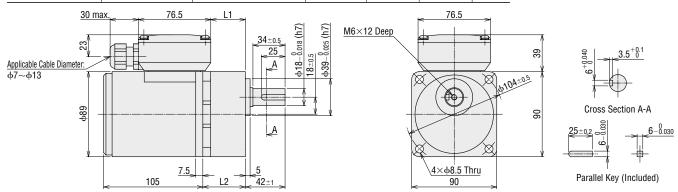
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Dimensions (Unit = mm)

- "Installation screws" are included with the combination type. Dimensions of installation screws → page 31
- The cable outlet of the terminal box can be changed and fixed to four different directions.

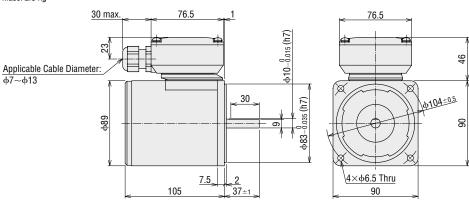
Terminal Box Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L1	L2	Mass kg
EIV AOUETO -	FIL 40CV LIETO		5~18	36.6	45	
5IK40U ■ T2-□ 5IK40GCT2-□	5IK40GV-U■T2 5IK40GV-GCT2	5GV□B	25~100	49.6	58	4.3
JIK-TOCTZ-			120~300	55.6	64]



◇Round Shaft Type 5IK40A-U 172, 5IK40A-GCT2

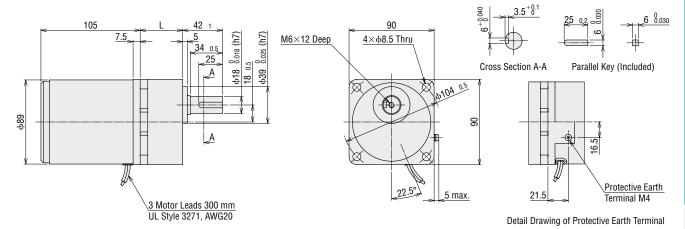
Mass: 2.8 kg



■ Either A or C indicating the power supply voltage is replaced with the box I in the product name.
A code (T2) indicating the terminal box type is replaced with the box I in the product name.
A number indicating the gear ratio is entered where the box I is located within the product name.

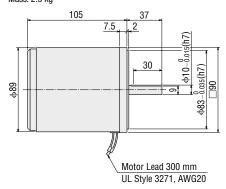
Lead Wire Type

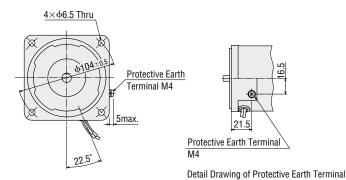
Product Name	Motor Product Name	Gearhead Product Name	Mass kg	Gear Ratio 5∼18 L	Gear Ratio 25~100	Gear Ratio 120~300
5IK40U□-□ 5IK40GC-□	5IK40GV-U□ 5IK40GV-GC	5GV□B	4.0	45	58	64

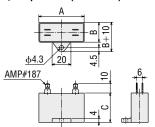


◇Round Shaft Type 5IK40A-U■, **5IK40A-GC**

Mass: 2.5 kg







						Unit : mm
Produc	t Name	Capacitor	Α	В	С	Mass
Combination Type	Round Shaft Type	Product Name	A	B		g
5IK40UAT2-□ 5IK40UA-□	5IK40A-UAT2 5IK40A-UA	CH90CFAUL2	48	22.5	31.5	45
5IK40GCT2-□ 5IK40GC-□	5IK40A-GCT2 5IK40A-GC	CH25BFAUL	48	21	31	42
5IK40UCT2-□ 5IK40UC-□	5IK40A-UCT2 5IK40A-UC	CH20BFAUL	48	19	29	36

Capacitor Cap is included.

(II Series

> 6 W 110–230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

. 40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220–400 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

60 W

□90 mm

Combination Type, Round Shaft Type





Specifications - Continuous Rating

$)(\epsilon)$	
	$)$ (ϵ

Upper Level: Co	ct Name ombination Type ound Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	Overheat Protection	
Terminal Box Type	Lead Wire Type	W	VAC	Hz	Α	mN·m	mN∙m	r/min	μF	Device	
5IK60UAT2-□	5IK60UA-□	60	Single-Phase 110	60	1.09	320	405	1450	16		
5IK60A-UAT2	5IK60A-UA	00	Single-Phase 115	00	1.09	320	400	1430	10		
5IK60GCT2-□	5IK60GC-□	60	Single-Phase 220	50	0.49	290	490	1200	4.0	TP	
5IK60A-GCT2	5IK60A-GC	00	Single-Phase 230	30	0.49	320	490	1200	4.0	IP	
5IK60UCT2-□	5IK60UC-□	60	Single-Phase 220	60	0.53	320	405	1450	4.0		
5IK60A-UCT2	5IK60A-UC	00	Single-Phase 230] 00	0.52	320	400	1450	4.0		

The specifications apply to the motor only.

Product Line

	The combination type comes with a motor and a gearhead pre-assembled.	Combination Type	Motor	Gearhead
Combination	The combination of the motor and the gearhead can be changed.			
Туре	They are also available separately.			+ -
	You can also remove the gearhead to change the installation position by 90°.			

Combination Type

Product Name	Gear Ratio
	5, 6, 7. 5, 9, 12 . 5, 15, 18
5IK60UAT2-	25, 30, 36, 50, 60, 75, 90, 100
JIKOUUAI 2-	120, 150, 180
	250, 300
	5, 6, 7. 5, 9, 12.5, 15, 18
5IK60GCT2-□	25, 30, 36, 50, 60, 75, 90, 100
SIKOUGCIZ-	120, 150, 180
	250, 300
	5, 6, 7. 5, 9, 12.5, 15, 18
5IK60UCT2-	25, 30, 36, 50, 60, 75, 90, 100
SINOUUCI 2-	120, 150, 180
	250, 300

The following items are included in each product. -

Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

wotor, dearnead, capacitor, capacitor cap, ins

Round Shaft Type

Terminal Box Type

Product Name

Product Name
5IK60A-UAT2
5IK60A-GCT2
5IK60A-UCT2

♦ Lead Wire Type
Product Name
5IK60A-UA
5IK60A-GC
5IK60A-UC

Product Name	Gear Ratio
	5, 6, 7. 5, 9, 12.5, 15, 18
5IK60UA-□	25, 30, 36, 50, 60, 75, 90, 100
SIKOUUA-	120, 150, 180
	250, 300
	5, 6, 7. 5, 9, 12.5, 15, 18
FIX 4 OCC	25, 30, 36, 50, 60, 75, 90, 100
5IK60GC-□	120, 150, 180
	250, 300
	5, 6, 7. 5, 9, 12 . 5, 15, 18
	25, 30, 36, 50, 60, 75, 90, 100
5IK60UC-□ -	120, 150, 180
	250, 300

The following items are included in each product. – Motor, Capacitor, Capacitor Cap, Operating Manual

TP: 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.

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

Permissible Torque on Combination Types

■ 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.

The actual speed is 2 to 20% less, depending on the load

●50 Hz																				Ur	nit : N⋅m
Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3	6	5
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK60GC□-□		2.2	2.6	3.3	4.0	5.5	6.6	7.9	10.5	12.6	15.2	21.1	25.3	30	30	30	30	30	30	30	30

●60 Hz Unit: N.m Speed 360 300 240 200 144 120 100 72 60 50 36 30 24 20 18 15 12 10 7.2 6 **Product Name** r/min Gear Ratio 5 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180 250 300 6 5IK60U 1.8 2.2 3.3 4.6 5.5 6.6 8.7 10.4 12.5 17.4 20.9 26.1 30 30 30 30

Permissible Radial Load/Permissible Axial Load

→ page 32

Permissible Inertia J of Combination Types

→ page 32

■ Dimensions (Unit = mm)

- "Installation screws" are included with the combination type. Dimensions of installation screws → page 31
- The cable outlet of the terminal box can be changed and fixed to four different directions.

Terminal Box Type

Dimensions	Product Name	Motor Product Name	Gearhead	Mass kg	Gear Rati	0 5∼18	Gear Ratio	25~100	Gear Ratio 1	20~300
No.	Floudel Name	Wiotor Froduct Name	Product Name	IVIASS KY	L1	L2	L1	L2	L1	L2
1)	5IK60U □ T2-□	5IK60GVH-U□T2	5GVH□B	4.5	36.6	45	49.6	58	55.6	64
2	5IK60GCT2-□	5IK60GVH-GCT2	ЭСУПШВ	4.7	30.0	45	49.0	30	33.0	04

● Dimensions ①

Applicable Cable Diameter: 30 max. 76.5

□ 47~ Φ13

□ 7.5

□ 120

□ 7.5

□ 120

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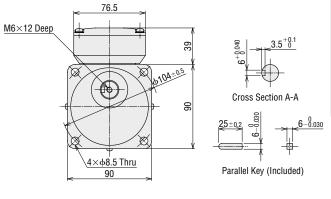
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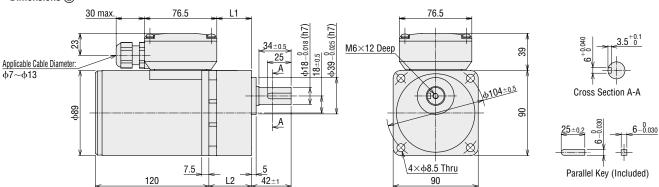
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• Dimensions (2)



 II eries

> 6 W 110–230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220–400 VAC

KIIS Series

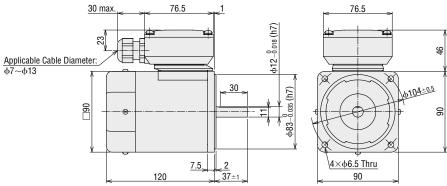
> 60 W 220, 230 VAC

등 **100 W** 물 220, 230 VAC

◇Round Shaft Type

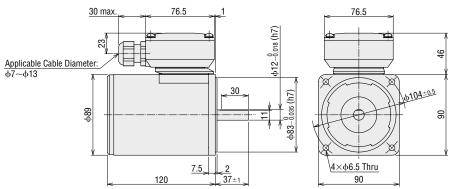
5IK60A-U12

Mass: 3.0 kg



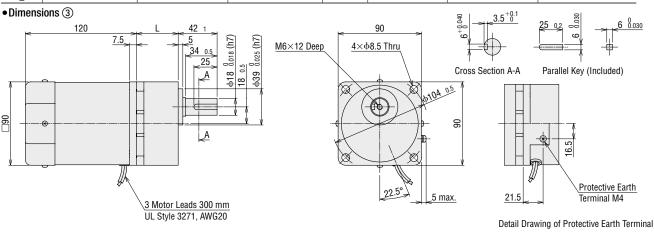
5IK60A-GCT2

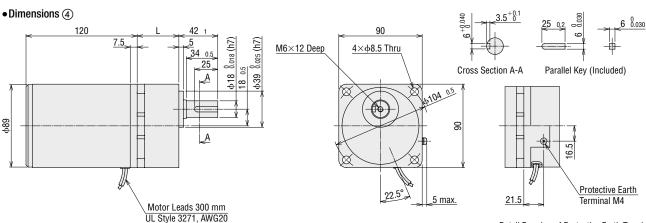
Mass: 3.2 kg



Lead Wire Type

Dimensions	Product Name	Motor Product Name	Gearhead	Mass kg	Gear Ratio 5 ∼ 18	Gear Ratio 25~100	Gear Ratio 120~300
No.	FIOUUCI Name	Willow Flounce Maille	Product Name	IVIASS NY	L	L	L
3	5IK60U □ -□	5IK60GVH-U□	5GVH□B	4.2	45	58	64
(4)	5IK60GC-□	5IK60GVH-GC	JGVHLB	4.4	45	36	64





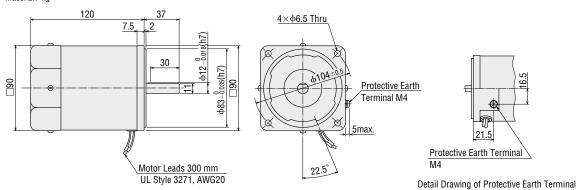
■ Either A or C indicating the power supply voltage is replaced with the box ■ in the product name.
A number indicating the gear ratio is entered where the box □ is located within the product name.

Detail Drawing of Protective Earth Terminal

\Diamond Round Shaft Type

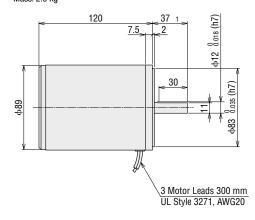
5IK60A-U■

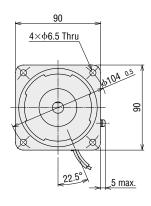
Mass: 2.7 kg

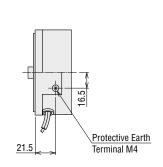


5IK60A-GC

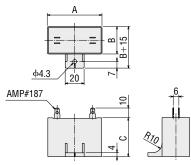
Mass: 2.9 kg







Detail Drawing of Protective Earth Terminal



						Unit : mm
Produc	t Name	Capacitor	Α	В	С	Mass
Combination Type	Round Shaft Type	Product Name	A	6	U	g
5IK60UAT2-□ 5IK60UA-□	5IK60A-UAT2 5IK60A-UA	CH160CFAUL2	58	23.5	37	71
5IK60GCT2-□ 5IK60GC-□	5IK60A-GCT2 5IK60A-GC	CH40BFAUL	58	23.5	37	73
5IK60UCT2-□ 5IK60UC-□	5IK60A-UCT2 5IK60A-UC	CH40BFAUL	58	23.5	37	73

Capacitor Cap is included.

CII

6 W 110–230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

> 100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220–400 VAC

KIIS Series

With E 60 W 220, 230 VAC

100 W 220, 230 VAC

90 W

□90 mm

Combination Type, Round Shaft Type



Terminal Box Type Lead Wire Type

Specifications - Continuous Rating



Upper Level: Co	ct Name ombination Type ound Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	Overheat Protection Device
Terminal Box Type	Lead Wire Type	W	VAC	Hz	Α	mN·m	mN∙m	r/min	μF	Device
5IK90UAT2-□	5IK90UA-□	90 Single-Phase 110		60	1.44	450	585	1500	20	
5IK90A-UAT2	5IK90A-UA	90	Single-Phase 115	00	1.44	430	363	1300	20	
5IK90GCT2-□	5IK90GC-□	90	Single-Phase 220	50	0.70	480	730	1200	6.0	TP
5IK90A-GCT2	5IK90A-GC	90	Single-Phase 230	30	0.70	520	730	1200	0.0	ir ir
5IK90UCT2-□	5IK90UC-□	90	Single-Phase 220	60	0.71	450	605	1450	5.0	
5IK90A-UCT2	5IK90A-UC	90	Single-Phase 230	00	0.71	430	000	1400	3.0	

The specifications apply to the motor only.

Product Line

Combination Type	The combination type comes with a motor and a gearhead pre-assembled. The combination of the motor and the gearhead can be changed. They are also available separately. You can also remove the gearhead to change the installation position by 90°.	Combination Type Combination Type	Motor	Gearhead +
---------------------	---	------------------------------------	-------	---------------

Combination Type

Product Name	Gear Ratio
	5, 6, 7. 5, 9, 12.5, 15, 18
5IK90UAT2-□	25, 30, 36, 50, 60
	<i>7</i> 5, 90, 100, 120, 150, 180
	5, 6, 7. 5, 9, 12.5, 15, 18
5IK90GCT2-□	25, 30, 36, 50, 60
	7 5, 90, 100, 120, 150, 180
	5, 6, 7. 5, 9, 12.5, 15, 18
5IK90UCT2-□	25, 30, 36, 50, 60
	7 5, 9 0, 100, 120, 150, 180

The following items are included in each product.

 ${\bf Motor, \, Gearhead, \, Capacitor, \, Capacitor \, Cap, \, Installation \, Screws, \, Parallel \, Key, \, Operating \, Manual}$

Product Name	Gear Ratio
	5, 6, 7. 5, 9, 12 . 5, 15, 18
5IK90UA-□	25, 30, 36, 50, 60
	<i>7</i> 5, 90, 100, 120, 150, 180
	5, 6, 7. 5, 9, 12 . 5, 15, 18
5IK90GC-□	25, 30, 36, 50, 60
	<i>7</i> 5, 90, 100, 120, 150, 180
	5, 6, 7. 5, 9, 12.5, 15, 18
5IK90UC-□	25, 30, 36, 50, 60
	75, 90, 100, 120, 150, 180

Round Shaft Type

♦ Terminal Box Type

V 101111111011 = 0111
Product Name
5IK90A-UAT2
5IK90A-GCT2
5IK90A-UCT2

\diamondsuit Lead	Wire	Туре
---------------------	------	------

\$ ===== :e :}pe
Product Name
5IK90A-UA
5IK90A-GC
5IK90A-UC

The following items are included in each product.
 Motor, Capacitor, Capacitor Cap, Operating Manual

TP: 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.

lacktriangle A number indicating the gear ratio is entered where the box lacktriangle is located within the product name.

Permissible Torque on Combination Types

- 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.

90 HZ																		·	JIIIL : IN-III
Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5IK90GC□-□		3.3	3.9	4.9	5.9	8.2	9.9	11.3	15.7	18.8	22.6	31.4	37.7	40	40	40	40	40	40
		•																	

●60 Hz

00112																			
Product Name	Speed r/min	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5IK90UA□-□		2.6	3.2	3.9	4.7	6.6	7.9	9.1	12.6	15.1	18.1	25.2	30.2	35.5	40	40	40	40	40
5IK90UC□-□		2.7	3.3	4.1	4.9	6.8	8.2	9.4	13.0	15.6	18.7	26.0	31.2	36.8	40	40	40	40	40

Permissible Radial Load/Permissible Axial Load

→ page 32

Permissible Inertia J of Combination Types

→ page 32

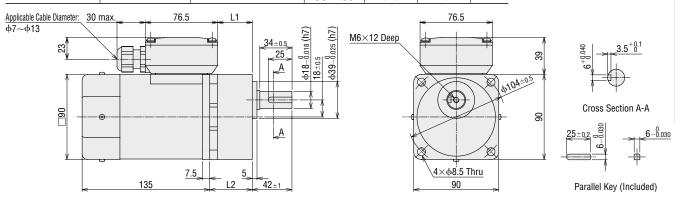
Dimensions (Unit = mm)

- "Installation screws" are included with the combination type. Dimensions of installation screws → page 31
- The cable outlet of the terminal box can be changed and fixed to four different directions.

Terminal Box Type

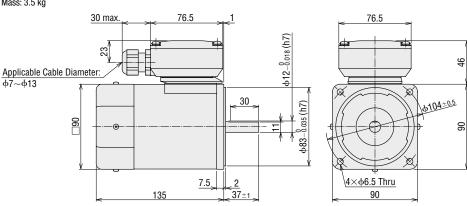
○Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L1	L2	Mass kg
5IK90U■T2-□ 5IK90GCT2-□	FIXOOCY (D. LIETO		5~15	36.6	45	
	5IK90GVR-UT2 5IK90GVR-GCT2	5GVR□B	18~36	49.6	58	5.0
	SIK700 VK OCIZ		50~180	61.6	70]



5IK90A-U**■**T2, 5IK90A-GCT2

Mass: 3.5 kg



lacktriangle Either lacktriangle or lacktriangle in in the product name. A code ($\mathbf{T2}$) indicating the terminal box type is replaced with the box \square in the product name.

110-230 VAC

15 W 110-230 VAC

25 W 110-230 VAC

Hnit · N.m

40 W 110-230 VAC

60 W 110-230 VAC

90 W 110–230 VAC

ΚIIS

220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC

220-400 VAC

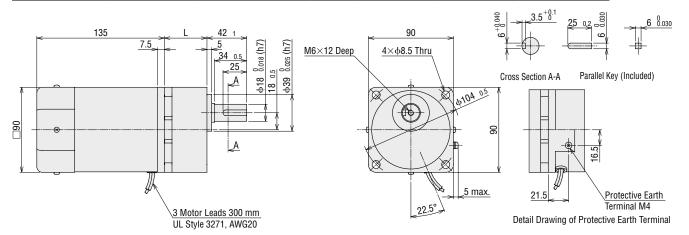
ΚIIS Series

60 W

100 W

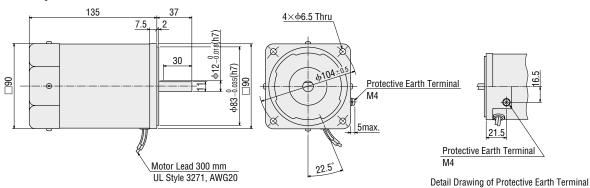
Lead Wire Type

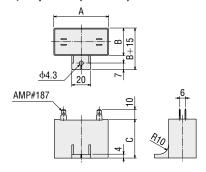
Product Name	Motor Product Name	Gearhead Product Name	Mass kg	Gear Ratio 5∼15	Gear Ratio 18∼36	Gear Ratio 50~180
FIOUUCI Name	Wiolor Froduct Name	deameau Fioduct Name	Wass ky	L	L	L
5IK90U□-□ 5IK90GC-□	5IK90GVR-U□ 5IK90GVR-GC	5GVR□B	4.7	45	58	70



◇Round Shaft Type 5IK90A-U, **5IK90A-GC**

Mass: 3.2 kg





						Unit : mm
Produc	t Name	Capacitor	A	В	С	Mass
Combination Type	Round Shaft Type	Product Name		ь	U	g
5IK90UAT2-□ 5IK90UA-□	51K90A-UAT2 51K90A-UA	CH200CFAUL2	58	29	41	91
5IK90GCT2-□ 5IK90GC-□	5IK90A-GCT2 5IK90A-GC	CH60BFAUL	58	29	41	92
5IK90UCT2-□ 5IK90UC-□	5IK90A-UCT2 5IK90A-UC	CH50BFAUL	58	29	41	93

Capacitor Cap is included.

 $[\]blacksquare$ Either ${\bf A}$ or ${\bf C}$ indicating the power supply voltage is replaced with the box \blacksquare in the product name.

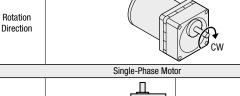
 $[\]blacksquare$ A number indicating the gear ratio is entered where the box \Box is located within the product name.

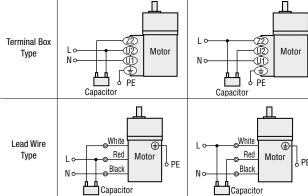
Connection Diagram

The rotation direction of the motor is as viewed from the output shaft of the motor. CW represents the clockwise direction, while CCW represents the counterclockwise direction.

Combination Type/Round Shaft Type

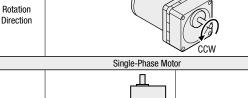
Output Power	Type/Ge	ear Ratio
6 W 15 W 25 W	Gear Ratio: 5∼25 , 150∼360 Round Shaft Type	Gear Ratio: 30 ∼ 120
40 W 60 W	Gear Ratio: 5∼18 , 120∼300 Round Shaft Type	Gear Ratio: 25 ∼ 100
90 W	Gear Ratio: 5∼15 , 75∼180 Round Shaft Type	Gear Ratio: 18∼60
Rotation		

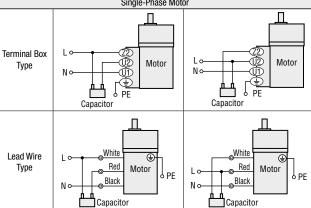




♦ CCW Rotation

Output Power	Type/Gear Ratio								
6 W 15 W 25 W	Gear Ratio: 5~25 , 150~360 Round Shaft Type	Gear Ratio: 30∼120							
40 W 60 W	Gear Ratio: 5~18 , 120~300 Round Shaft Type	Gear Ratio: 25~100							
90 W	Gear Ratio: 5~15, 75~180 Round Shaft Type	Gear Ratio: 18∼60							





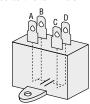
Note

Change the direction of single-phase motor rotation only after bringing the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, the motor may ignore the reversing command or change its direction of rotation after some delay.

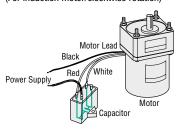
How to connect a capacitor

The capacitor has four terminals. As shown in the figure, the terminal A is internally connected with the terminal B, and the terminal C with the terminal D. Electrically, these are handled as two terminals.



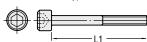
Inner Wiring Diagram for 4-Terminal Capacitor

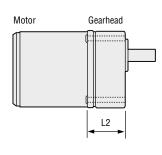
How to connect a motor/capacitor (For induction motor/clockwise rotation)



Dimensions of installation screws

The following screws are included with the combination type.





Coordinated Drawland Name	Installati	ion Screws	1.0 (mm)	
Gearhead Product Name	L1 (mm)	Screw Size	L2 (mm)	
2GV5B~25B	50		41	
2GV30B~120B	55	M4 P0.7	45	
2GV150B~360B	60		50	
3GV5B~25B	60		45	
3GV30B~120B	65		50	
3GV150B~360B	70	M6 P1.0	55	
4GV5B~25B	60	IVIO P1.U	48	
4GV30B~120B	65		53	
4GV150B~360B	70		58	
5GV5B~18B, 5GVH5B~18B	70		52.5	
5GV25B~100B, 5GVH25B~100B	85		65.5	
5GV120B~300B, 5GVH120B~300B	90	M0 D1 0E	71.5	
5GVR5B~15B	70	M8 P1.25	52.5	
5GVR18B~36B	85] [65.5	
5GVR50B~180B	95	1	77.5	

Installation Screws: 4 plain washers and 4 spring washers are included.

II

6 W 110-230 VAC

15 W 110–230 W

25 W 110–230 VAC

40 W 110–230 VAC

> **60 W** 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

20, 230 VAC Hollow/Solid Shaf

200 W 220–400 VAC

KIIS Series

> 60 W 220, 230 VAC

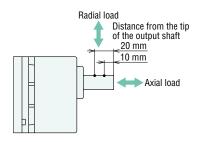
100 W 220, 230 VA

The installation screw material is stainless steel.

Permissible Radial Load/Permissible Axial Load

Combination Type

_							
Product	Gear Ratio	Permissible R Distance from the tip of	Permissible Axial Load				
Name		10 mm	N				
2IK6	5~25	150	200	40			
ZIKO	30~360	200	300	40			
211/15	5~25	200	300	80			
3IK15	30~360	300	00				
4IK25	5~25	300	350	100			
4IR25	30~360	450	550	100			
5IK40	5~9	400	500				
5IK40 5IK60	12.5~18	450	600	150			
JIKOO	25~300	500	700				
	5~9	400	500				
5IK90	12.5~18	450	600	150			
	25~180	500					



Round Shaft Type

	• •		
Product	Permissible R	adial Load N	
Name	Distance from the tip of	Permissible Axial Load	
Name	10 mm		
2IK6	50	110	
3IK15	40	60	
4IK25	90	140	Half of motor mass or less*
5IK40	140	200	nail of filotor mass of less.
5IK60 5IK90	240	270	

 $[\]bigstar \mbox{Avoid}$ axial loads as much as possible.

If axial load is unavoidable, keep it at half or less of the motor mass.

Permissible Inertia J of Combination Types

Unit: $\times 10^{-4} \text{kg} \cdot \text{m}^2$

	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300	360
Product Name		•		7.5	,	12.5				30	30	30	00	,,,	70	.00	120	.50	.00	250	300	300
2IK6		12	18	28	40	78	110	160	260	370	540	920	1300	1700	2000	2500	3600	5000	5000	5000	5000	5000
ZIKO	At Instantaneous Stop	1.55	2.23	3.49	5.02	9.69	14	20.1	38.8	55.8	80.4	155	155	155	155	155	155	155	155	155	155	155
3IK15		20	28	45	65	120	180	260	440	630	900	1500	2100	2800	3200	4000	5700	8000	8000	8000	8000	8000
SIKTS	At Instantaneous Stop	3.5	5.04	7.88	11.3	21.9	31.5	45.4	87.5	126	181	350	350	350	350	350	350	350	350	350	350	350
4IK25		22	32	50	72	150	220	310	550	800	1100	2200	3200	4000	5000	6200	8900	12000	12000	12000	12000	12000
41823	At Instantaneous Stop	7.75	11.2	17.4	25.1	48.4	69.8	100	194	279	402	775	775	775	775	775	775	775	775	775	775	775
5IK40		45	65	100	150	300	420	620	1100	1600	2300	4500	6000	8000	10000	12000	17000	25000	25000	25000	25000	-
5IK60	At Instantaneous Stop	27.5	39.6	61.9	89.1	172	248	356	688	990	1426	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	-
5IK90		45	65	100	150	300	420	620	1100	1600	2300	4500	6000	8000	10000	12000	17000	25000	25000	-	_	-
JIK90	At Instantaneous Stop	27.5	39.6	61.9	89.1	172	248	356	688	990	1426	2750	2750	2750	2750	2750	2750	2750	2750	_	_	

■Combination Type Motor and Gearhead Combinations

Terminal Box Type

•		
Product Name	Motor Product Name	Gearhead Product Name
4IK25UAT2-□	4IK25GV-UAT2	
4IK25GCT2-□	4IK25GV-GCT2	4GV□B
4IK25UCT2-□	4IK25GV-UCT2	
5IK40UAT2-□	5IK40GV-UAT2	
5IK40GCT2-□	5IK40GV-GCT2	5GV□B
5IK40UCT2-□	5IK40GV-UCT2	
5IK60UAT2-□	5IK60GVH-UAT2	
5IK60GCT2-□	5IK60GVH-GCT2	5GVH□B
5IK60UCT2-□	5IK60GVH-UCT2	
5IK90UAT2-□	5IK90GVR-UAT2	
5IK90GCT2-□	5IK90GVR-GCT2	5GVR□B
5IK90UCT2-□	5IK90GVR-UCT2	1

Lead Wire Type

Product Name	Motor Product Name	Gearhead Product Name
2IK6UA-□	2IK6GV-UA	
2IK6GC-□	2IK6GV-GC	2GV□B
2IK6UC-□	2IK6GV-UC	
3IK15UA-□	3IK15GV-UA	
3IK15GC-□	3IK15GV-GC	3GV□B
3IK15UC-□	3IK15GV-UC	
4IK25UA-□	4IK25GV-UA	
4IK25GC-□	4IK25GV-GC	4GV□B
4IK25UC-□	4IK25GV-UC	
5IK40UA-□	5IK40GV-UA	
5IK40GC-□	5IK40GV-GC	5GV□B
5IK40UC-□	5IK40GV-UC	
5IK60UA-□	5IK60GVH-UA	
5IK60GC-□	5IK60GVH-GC	5GVH□B
5IK60UC-□	5IK60GVH-UC	
5IK90UA-□	5IK90GVR-UA	
5IK90GC-□	5IK90GVR-GC	5GVR□B
5IK90UC-□	5IK90GVR-UC	
A		

 $[\]blacksquare$ A number indicating the gear ratio is replaced with the box \Box in the product name.

KII Series

6 W 110–230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

ΚIIS

60 W 220, 230 VAC

100 W 220, 230 VAC 100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220–400 VAC

KIIS Series

With Electron 220, 230 VAC

gnetic 100 W 220, 230 VAC

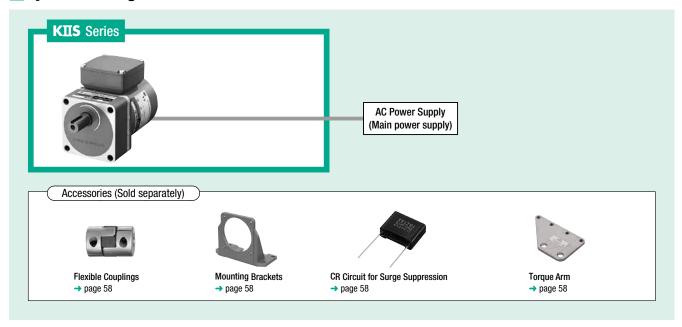
Features

Series Name Features and Lineup **KIIS** Series High-efficiency three-phase motor The optimal magnetic design and dedicated parts provide high efficiency of up to 73%. This model also has reduced the power consumption by up to around 10%. Best for combination with an inverter You can control the speed in a wide range from low speeds to high speeds. In addition, speed regulation under loads is small, enabling stable speed control. Increase in motor power output For the frame size of 90 mm, the output of 100 W has been achieved through high efficiency. Lineup Fanless Reduction in loss has suppressed heat generation. This eliminates the cooling fan installed in the conventional model of 60 W or higher. With less total length, less installation space is required.

- Slim terminal box (Terminal box type)
 A slim terminal box is installed for easy wiring. This box conforms to the Degree of Protection IP66.
 (Excluding the installation surface of the round shaft type)
- Combination type of pre-assembled gearhead The combination type comes with a gearhead and a motor pre-assembled.
- Shaft Configurations of Solid Shaft Type
 An output shaft direction of left or right can be selected for the solid shaft type.

Frame Size	90 mm, 110mm						
Output Power	60 W, 100 W, 200 W						
	Three-Phase 220/230 VAC						
Voltage	Three-Phase 380 VAC						
voitage	Three-Phase 400 VAC						
	Three-Phase 415 VAC						
Туре	Combination Type/Round Shaft Type/Rightangle Shaft Geared Type						
Model	Induction Motor Electromagnetic Brake Type Motor						

System Configuration



System Configuration Example

Three Dhose High Efficiency			Sold Separately	
Three-Phase High-Efficiency Induction Motor	+	Mounting Brackets	Flexible Couplings	CR Circuit for Surge Suppression
5IK60VEST2-25		SOL5M8F	MCL551818	EPCR1201-2

The system configuration shown above is an example. Other combinations are available.

(6)

Product Number Code

Combination Type

5 I K 100 V ES M T2 - 15

1 2 3

4

⑤⑥⑦

8

10

Round Shaft Type

(1) (2) (3)

5 | K 100 V A - ES T2

5 9

4

Right-angle Shaft Geared Type (Induction motor)

7 I K 200 V EU T2 - GHR 15

1	23 4 5 6 8	9 10						
1	Motor Frame Size	5 : 90 mm, 7 : 110 mm						
2	Model Name	I: Induction Motor						
3	Series Name	K: KII Series						
4	Output Power (W)	(Example) 100: 100 W						
(5)	V: Three-Phase High-Efficiency Motor							
6	Power Supply Voltage and Number of Poles	ES: Three-Phase 220/230 VAC 4 poles						
		EU: Three-phase 380/400/415 VAC 4 poles						
7	M: Power Off Activated Type Electromagnetic Brake							
8	T2: Terminal Box Type							
9	Output Shaft Type & Direction	A: Round Shaft Type						
		GHR: Hollow shaft type						
		GAR : Solid shaft type (R shaft) GAL : Solid shaft type (L shaft)						
10	Gear Ratio	Number: Gear Ratio of gearhead						

General Specifications

Item	Specifications
Insulation Resistance	The measured value is $100 \mathrm{M}\Omega$ or more when a $500 \mathrm{VDC}$ megger is applied between the motor windings and the case after continuous operation under normal ambient temperature and humidity.
Dielectric Voltage	No abnormality is judged even with application of AC1.5 kV at 50Hz or 60Hz between the motor windings and the case for 1 minute after continuous operation under normal ambient temperature and humidity.
Temperature Rise	A gearhead or equivalent heat sink (200 × 200 mm, Thickness: 5 mm, Material: Aluminum) is connected and the winding temperature rise is measured at 80°C or less using the resistance change method after rated load continuous operation under normal ambient temperature and humidity.
Heat-Resistant Class	130 (B)
Operating Ambient Temperature	-10∼+40 °C (non-freezing)
Operating Ambient Humidity	85% or less (non-condensing)
Degree of Protection	Terminal Box Type: IP66* (Excluding the installation surface of the round shaft type) Lead Wire Type: IP20

*Material and surface treatment

Material

Case and terminal box: Aluminum

Output shaft: S45C

Screw: Stainless steel (Exposed part only)

Surface treatment

Case and terminal box: Painted (Except the installation surface)

Note

To prevent the motor from burning out when an excess load is applied or the output shaft is locked, use the electrical thermal function of the electromagnetic switch or the inverter.

KII Series

> 6 W 110–230 VAC

> **15 W** 110–230 VAC

25 W 110–230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

> 100 W 220, 230 VAC Hollow/Solid Shaf

200 W 200, 400 VA

KIIS Series

> 60 W 220, 230 VAC

100 W 220, 230 VAC

There is no built-in overheat protection device (thermal protector).

60 W

□90 mm

Combination Type, Round Shaft Type





Terminal Box Type

Specifications - Continuous Rating

Product Name Upper Level: Combination Type Lower Level: Round Shaft Type		Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed
Terminal Box Type	Lead Wire Type	W	VAC	Hz	Α	mN·m	mN·m	r/min
		60	Three-Phase 220	50	0.37	600	410	1400
5IK60VEST2-□	5IK60VES-□	00	111166-111036 220	60	0.33	500	350	1670
5IK60VA-EST2	5IK60VA-ES	60	Three-Phase 230	50	0.38	600	410	1400
		00	Tillee-Filase 250	60	0.33	500	350	1670

The specifications apply to the motor only.

Product Line

	The combination type comes with a motor and a gearhead pre-assembled.	Combination Type	Motor	Gearhead
Combination	The combination of the motor and the gearhead can be changed.			
Туре	They are also available separately.			+ 🎏
	You can also remove the gearhead to change the installation position by 90°.			\square

Combination Type

Туре	Product Name	Gear Ratio
		5, 6, 7. 5, 9, 12.5, 15, 18
Terminal Box Type	5IK60VEST2-□	25, 30, 36, 50, 60, 75, 90, 100
	SIROUVES12-	120, 150, 180
		250, 300
		5, 6, 7. 5, 9, 12.5, 15, 18
Lead Wire	5IK60VES-	25, 30, 36, 50, 60, 75, 90, 100
Туре	SIKOUVES-	120, 150, 180
		250, 300

The following items are included in each product. -Motor, Gearhead, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type

Туре	Product Name
Terminal Box Type	5IK60VA-EST2
Lead Wire Type	5IK60VA-ES

The following items are included in each product. Motor, Operating Manual

Permissible Torque on Combination Types

●50 Hz Unit: N·m

Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3	6	5
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK60VEST2-□, 5IK60VES-□			2.2	2.8	3.3	4.6	5.5	6.6	8.8	10.6	12.7	17.6	21.2	26.4	30	30	30	30	30	30	30

●60 Hz																				Ur	nit : N·m
Product Name	Speed r/min	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	7.2	6
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK60VEST2-□, 5IK60V	1.6	1.9	2.4	2.8	3.9	4.7	5.7	7.5	9.0	10.8	15.1	18.1	22.6	27.1	30	30	30	30	30	30	

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 10% less, depending on the load.

There is no built-in overheat protection device (thermal protector).

To prevent the motor from burning out when an excess load is applied or the output shaft is locked, use the electrical thermal function of the electromagnetic switch or the inverter.

To combine this model with an inverter, set the frequency of the inverter to 120 Hz or lower.

Permissible Radial Load/Permissible Axial Load

Permissible Inertia J of Combination Types

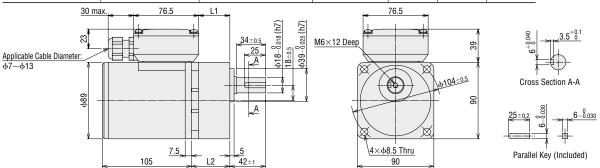
→ page 56 → page 55

■ Dimensions (Unit = mm)

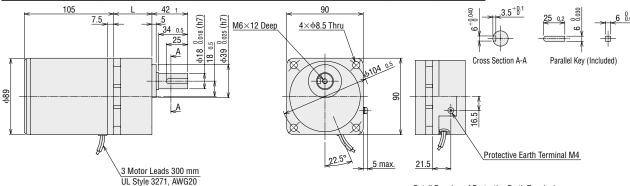
- "Installation screws" are included with the combination type. Dimensions of installation screws → page 55
- The cable outlet of the terminal box can be changed and fixed to four different directions.
- lacktriangle A number indicating the gear ratio is entered where the box \Box is located within the product name.

Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L1	L2	Mass kg
			5∼18	36.6	45	
5IK60VEST2-□	5IK60VGVH-EST2	5GVH□B	25~100	49.6	58	4.1
			120~300	55.6	64	



Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg		
			5~18	45			
5IK60VES-□	5IK60VGVH-ES	5GVH□B	25~100	58	3.8		
			120~300	64			
< 105 7.8	L 42 1	E S M6×12 Deep 4×	90 ♦8.5 Thru		2 + 0.040	3.5+8.1	25 0.2

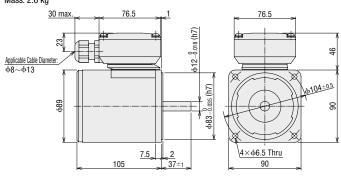


Detail Drawing of Protective Earth Terminal

Round Shaft Type

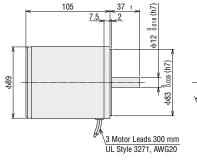
5IK60VA-EST2

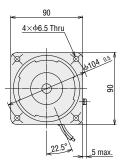
Mass: 2.6 kg

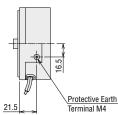


♦ Lead Wire Type 5IK60VA-ES

Mass: 2.3 kg







Detail Drawing of Protective Earth Terminal

KII Series

> 6 W 110–230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

40 W 110–230 VAC

> **60 W** 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC Hollow/Solid Shaf

200 W 220–400 VAC

KIIS Series

> 60 W 220, 230 VAC

ਜ਼ਿ **100 W** 220, 230 V

Induction Motors

100 W

□90 mm

Combination Type, Round Shaft Type



illilai bux type Leau wile type

™ (CE

Specifications - Continuous Rating

		•						
Upper Level: Co	rt Name ombination Type ound Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed
Terminal Box Type	Lead Wire Type	w	VAC	Hz	Α	mN·m	mN·m	r/min
		100	Three-Phase 220	50	0.55	850	690	1400
5IK100VEST2-□	5IK100VES-□	100	Tillee-Filase 220	60	0.48	700	570	1680
5IK100VA-EST2	5IK100VA-ES	100	Three-Phase 230	50	0.57	850	690	1400
	"	100	THEE-FHASE 230	60	0.48	700	570	1680

The specifications apply to the motor only.

Product Line

Combination	The combination type comes with a motor and a gearhead pre-assembled. The combination of the motor and the gearhead can be changed.	Combination type	Motor	Gearhead
Туре	They are also available separately. You can also remove the gearhead to change the installation position by 90°.		-	+

Combination Type

5IK100VEST2-□, 5IK100VES-□

Туре	Product Name	Gear Ratio
Total		5, 6, 7. 5, 9, 12 . 5, 15, 18
Terminal Box Type	5IK100VEST2-□	25, 30, 36, 50, 60
DOX Type		75 , 90 , 100, 120, 150, 180
1 1 140		5, 6, 7. 5, 9, 12.5, 15, 18
Lead Wire Type	5IK100VES-□	25, 30, 36, 50, 60
		75. 90. 100. 120. 150. 180

- The following items are included in each product.

Motor, Gearhead, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type

Туре	Product Name				
Terminal Box Type	5IK100VA-EST2				
Lead Wire Type	5IK100VA-ES				
The following items are included in each product.					

The following items are included in each product. —
 Motor, Operating Manual

10.7 | 14.8 | 17.8 | 21.4 | 29.7 | 35.6

40

40 | 40

40

Permissible Torque on Combination Types

50 Hz Unit: N·m Speed 250 200 166 120 100 83 16.6 12.5 8.3 Product Name r/min 12.5 15 Gear Ratio 6 7.5 25 30 36 50 60 75 90 100 120 150 180

5.6 7.8 9.3

●60 Hz																		ι	Jnit : N·m
Product Name	Speed r/min	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5IK100VEST2-□, 5IK10	OVES-	2.6	3.1	3.8	4.6	6.4	7.7	8.8	12.3	14.7	17.6	24.5	29.4	34.6	40	40	40	40	40

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 10% less, depending on the load.

3.1

3.7 4.7

There is no built-in overheat protection device (thermal protector).

To prevent the motor from burning out when an excess load is applied or the output shaft is locked, use the electrical thermal function of the electromagnetic switch or the inverter.

[■] To combine this model with an inverter, set the frequency of the inverter to 120 Hz or lower.

Permissible Radial Load/Permissible **Axial Load**

Permissible Inertia J of Combination **Types**

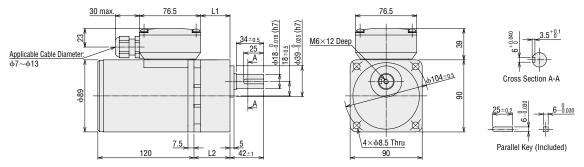
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Dimensions (Unit = mm)

- "Installation screws" are included with the combination type. Dimensions of installation screws → page 55
- The cable outlet of the terminal box can be changed and fixed to four different directions.
- lacktriangle A number indicating the gear ratio is entered where the box \Box is located within the product name.

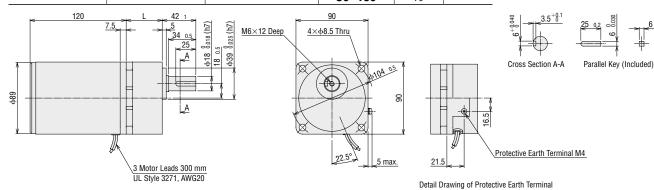
Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L1	L2	Mass kg
			5~15	36.6	45	
5IK100VEST2-□	5IK100VGVR-EST2	5GVR□B	18~36	49.6	58	4.7
			50∼180	61.6	70	



♦ Lead Wire Type

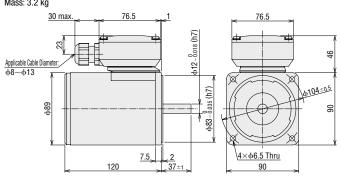
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
			5~15	45	
5IK100VES-□	5IK100VGVR-ES	5GVR□B	18~36	58	4.4
			50~180	70	



Round Shaft Type

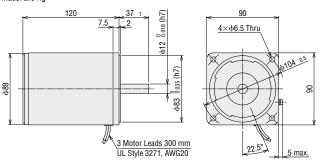
5IK100VA-EST2

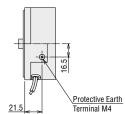
Mass: 3.2 kg



5IK100VA-ES

Mass: 2.9 kg





Detail Drawing of Protective Earth Terminal

KΠ Series

> 6 W 110-230 VAC

15 W 110–230 VAC

25 W 110-230 VAC

Induction 40 W 110-230 VAC

> 60 W 110-230 VAC

90 W 110-230 VAC

KIIS

60 W 220, 230 VAC

100 W 220, 230 VAC

200 W 220-400 VAC

ΚIIS Series

> 60 W 220, 230 VAC

100 W

Induction Motors

100W

□90 mm





Hollow Shaft Type

Solid Shaft Type

Specifications - Continuous Rating

Right-angle Shaft Geared Type





	Product Name		Output	Voltage	Frequency	Current
Hollow Shaft Type	Solid Shaft Type (R shaft)	Solid Shaft Type (L shaft)	W	٧	Hz	Α
	5IK100VEST2-GAR□	5IK100VEST2-GAL□	100	Three phase 220	50	0.55
5IK100VEST2-GHR□				Three-phase 220	60	0.52
SIK 100VES12-GHK				Three phase 220	50	0.57
				Three-phase 230	60	0.52

There is no built-in overheat protection device (thermal protector).

Product Line

Hollow shaft type

Type	Product Name	Gear Ratio
Terminal box	5IK100VEST2-GHR□	15, 20, 25, 30, 40, 50, 60
type	SIK 100 VES12-GHK	75 , 100, 120, 150, 200, 240

The following items are included in each product. Geared motor, installation screws, machine key, safety cover, operating manual

lacksquare A number indicating the gear ratio is specified in the box \Box in the product name.

Solid shaft type

Туре	Product Name	Gear Ratio
Terminal box	5IK100VEST2-GAR□	15, 20, 25, 30, 40, 50, 60
type	5IK100VEST2-GAL□	<i>7</i> 5, 100, 120, 150, 200, 240

The following items are included in each product. Geared motor, installation screws, machine key, operating manual

Permissible Inertia J of Combination

Permissible Torque on Right-angle Shaft Geared Types

Gear Ratio		7.5	10	15	20	25	30	40	50	60	<i>7</i> 5	100	120	150	200	240
Speed	50 Hz	200	150	100	75	60	50	37	30	25	20	15	12.5	10	7.5	6.2
[r/min]	60 Hz	240	180	120	90	72	60	45	36	30	24	18	15	12	9	7.5
Rated Torque	50 Hz	3.3	4.5	7.0	9.4	11.8	14.3	19.2	24.0	28.9	36.2	48.4	58.2	67.9	70	70
[N·m]	60 Hz	3.0	4.2	6.4	8.7	10.9	13.2	17.7	22.2	26.7	33.4	44.7	53.7	62.7	70	70
Starting Torque	50 Hz	4.2	5.7	8.8	11.8	14.8	17.9	24.0	30.0	36.1	45.2	60.4	70	70	70	70
[N·m]	60 Hz	3.4	4.6	7.1	9.6	12.0	14.5	19.5	24.4	29.4	36.8	49.2	59.1	69.0	70	70

Speed is calculated by dividing by the gear ratio with reference to the synchronous speed of the motor (50 Hz: 1500 r/min, 60 Hz: 1800 r/min). Actual speed is 2~10% lower depending on the size of the load.

Permissible Radial Load/Permissible **Axial Load**

Types → page 55

→ page 56

Please use an electromagnetic switch or the electron thermal function of the inverter to prevent burnout of the motor due to overload or locking of the output shaft.

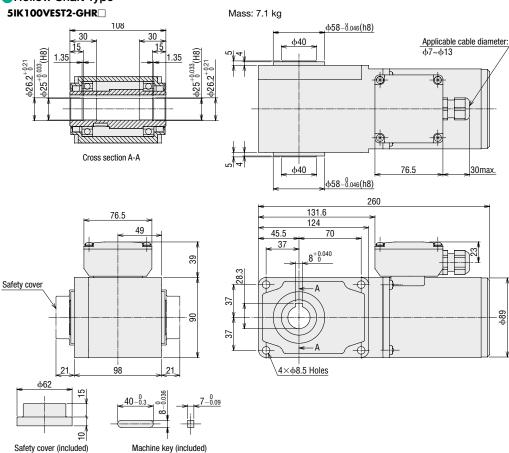
When driving in combination with an inverter, please use an inverter setting frequency of 100 Hz max. Note

Do not perform instantaneous bi-directional operation.

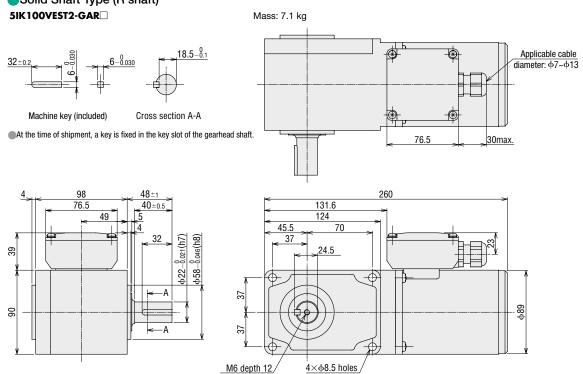
Dimensions (Unit = mm)

- Installation screws are included. → page 55
- The cable pull-out port of the terminal box can be changed and fixed in four directions.
- lacktriangle A number indicating the gear ratio is specified in the box \Box in the product name.

Hollow Shaft Type



Solid Shaft Type (R shaft)



KΠ Series

110-230 VAC

15 W 110–230 VAC

25 W 110-230 VAC

Induction 40 W

110-230 VAC

60 W 110-230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

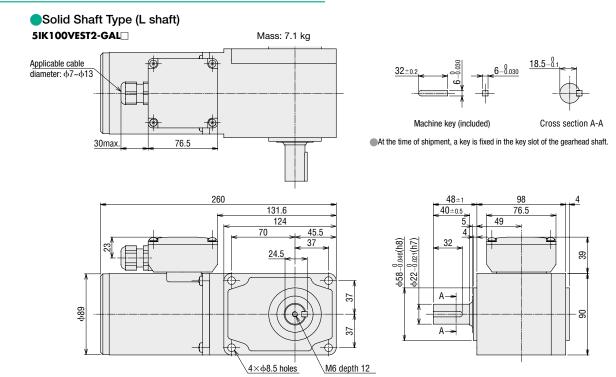
100 W 220, 230 VAC

200 W 220-400 VAC

ΚIIS Series

> 60 W 220, 230 VAC

100 W 220, 230 VAC



Induction Motors

200 W

□110 mm

Right-angle Shaft Geared Type





Solid Shaft Type

15 W 110–230 VAC

KΠ Series

110-230 VAC

25 W 110-230 VAC

40 W 110-230 VAC

60 W 110-230 VAC

90 W 110-230 VAC

KIIS

220, 230 VAC

100 W 220, 230 VAC

100 W

200 W

ΚIIS Series

> 60 W 220, 230 VAC

100 W

Specifications - Continuous Rating

Specifications -	- Continuous Ratin	ıg			c FLI °us	(()		
	Product Name		Output	Voltage	Frequency	Current		
Hollow Shaft Type	Solid Shaft Type (R shaft)	Solid Shaft Type (L shaft)	Solid Shaft Type (L shaft) W V					
				Three-phase 220	50	1.00		
7IK200VEST2-GHR□	7IK200VEST2-GAR□	7IK200VEST2-GAL□	200	Tillee-pliase 220	60	0.90		
/IRZUUVESIZ-GIRL	/IK200VESIZ-GAK	/IR200 VE312-GAL	200	Three-phase 230	50	1.02		
				Tillee-pliase 250	60	0.89		
				Three-phase 380	50	0.56		
				Illiee-bliase soo	60	0.52		
7IK200VEUT2-GHR□	7IK200VEUT2-GAR□	7IK200VEUT2-GAL□	200	Three-phase 400	50	0.56		
				111166-611096 400	60	0.51		
				Three-phase 415	50	0.57		

There is no built-in overheat protection device (thermal protector).

Please use an electromagnetic switch or the electron thermal function of the inverter to prevent burnout of the motor due to overload or locking of the output shaft.

When driving in combination with an inverter, please use an inverter setting frequency of 100 Hz max.

Note

Product Line

Hollow shaft type

Type	Product Name	Gear Ratio
	7IK200VEST2-GHR□	15, 20, 25, 30, 40, 50, 60
Terminal box	/IK200VESIZ-GHK	75 , 100, 120, 150, 200, 240
type	7IK200VEUT2-GHR□	15, 20, 25, 30, 40, 50, 60
	/IK200VEU12-GHK	75 , 100, 120, 150, 200, 240

The following items are included in each product.

Geared motor, installation screws, machine key, safety cover, operating manual

Solid shaft type

Type	Product Name	Gear Ratio
	7IK200VEST2-GAR□	15, 20, 25, 30, 40, 50, 60
Terminal box	7IK200VEST2-GAL□	75 , 100, 120, 150, 200, 240
type	7IK200VEUT2-GAR□	15, 20, 25, 30, 40, 50, 60
	7IK200VEUT2-GAL□	75 , 100, 120, 150, 200, 240

The following items are included in each product. Geared motor, installation screws, machine key, operating manual

lacktriangle A number indicating the gear ratio is specified in the box \Box in the product name.

Permissible Torque on Right-angle Shaft Geared Types

Gear	15	20	25	30	40	50	60	75	100	120	150	200	240	
Speed	50 Hz	100	75	60	50	37	30	25	20	15	12.5	10	7.5	6.2
[r/min]	60 Hz	120	90	72	60	45	36	30	24	18	15	12	9	7.5
Rated Torque	50 Hz	15.5	20.8	26.1	31.4	42.1	52.7	63.3	79.3	105	127	159	190	190
[N·m]	60 Hz	12.8	17.3	21.7	26.1	35.0	43.9	52.8	66.1	88.3	106	132	177	190
Starting Torque [N·m]	50 / 60 Hz	16.1	21.6	27.1	32.6	43.7	54.7	65.7	82.3	110	132	165	190	190

Speed is calculated by dividing by the gear ratio with reference to the synchronous speed of the motor (50 Hz: 1500 r/min, 60 Hz: 1800 r/min). Actual speed is 2~10% lower depending on the size of the load.

Permissible Radial Load/Permissible **Axial Load**

Permissible Inertia J of Combination **Types**

→ page 55

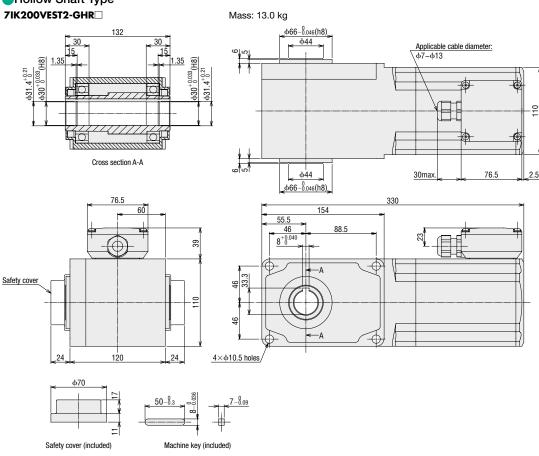
→ page 56

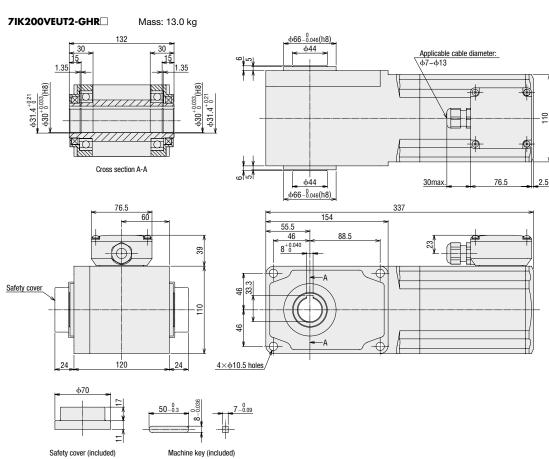
Do not perform instantaneous bi-directional operation.

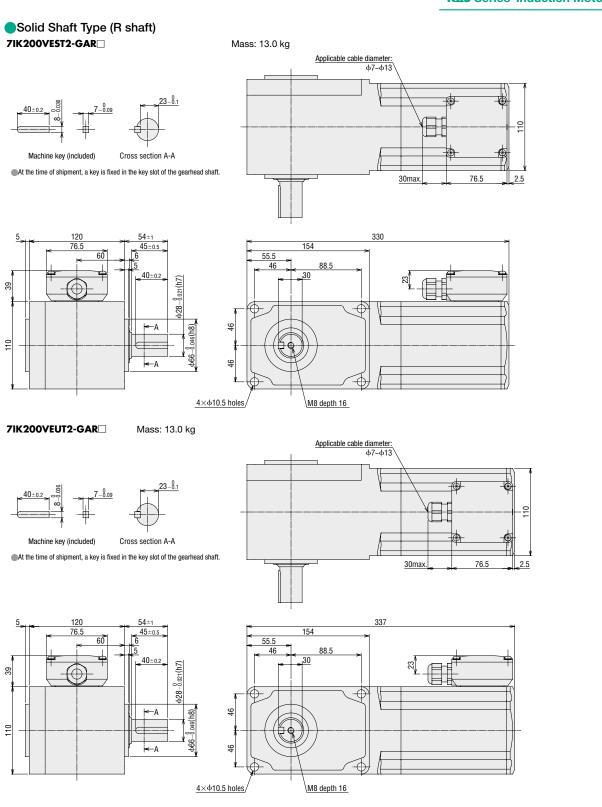
Dimensions (Unit = mm)

- Installation screws are included. → page 55
- The cable pull-out port of the terminal box can be changed and fixed in four directions.
- lacktriangle A number indicating the gear ratio is specified in the box \Box in the product name.

Hollow Shaft Type







KII Series

> 6 W 110–230 VAC

15 W 110–230 VAC

25 W

110-230 VAC 10-230 VAC 40 W

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

KIIS Series

> **60 W** 220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC Hollow/Solid Shaft

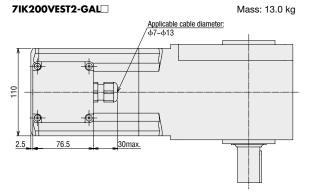
200 W 220–400 VAC

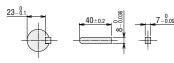
KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

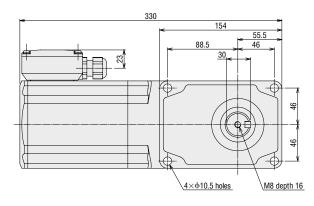
Solid Shaft Type (L shaft)

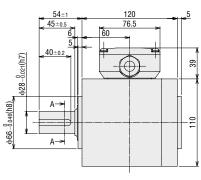


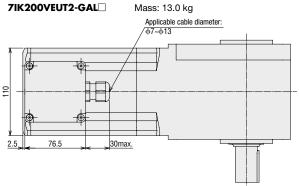


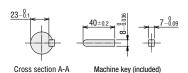
Cross section A-A Machine key (included)

At the time of shipment, a key is fixed in the key slot of the gearhead shaft.

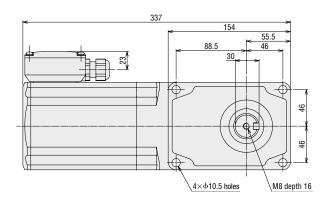


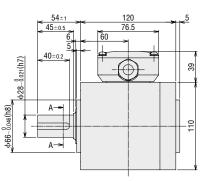






At the time of shipment, a key is fixed in the key slot of the gearhead shaft.





Motor

Combination Type

Gearhead

Electromagnetic Brake Type Motors

60 W

□90 mm

Combination Type, Round Shaft Type



Terminal Box Type

KΠ Series

110-230 VAC

15 W 110–230 VAC

25 W 110-230 VAC

40 W 110-230 VAC

60 W 110-230 VAC

90 W 110-230 VAC

KIIS

220, 230 VAC

100 W 220, 230 VAC

> 100 W 220, 230 VAC Hollow/Solid Shaft

KIIS

100 W

Specifications - Continuous Rating

Specifications - Continuous Rating												
Upper Level: Co	rt Name ombination Type ound Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed				
Terminal Box Type	Cable Type	w	VAC	Hz	Α	mN⋅m	mN·m	r/min				
		60	Three-Phase 220	50	0.37	600	410	1400				
5IK60VESMT2-□	5IK60VESM-□	00	IIIIee-Filase 220	60	0.33	500	350	1670				
5IK60VA-ESMT2	5IK60VA-ESM	60	Three-Phase 230	50	0.38	600	410	1400				
		00	THIEG-FILASE 230	60	0.33	500	350	1670				

The specifications apply to the motor only.

Electromagnetic Brake (Power off activated type)

Produc	t Name	Voltage	Frequency	Current	Input	Static Friction Torque
Terminal Box Type	Cable Type	VAC	Hz	A	W	mN·m
		Single-Phase 220	50	0.04	6	500
5IK60VESMT2-□	5IK60VESM-□	Sillyle-Filase 220	60	0.04	U	300
5IK60VA-ESMT2	5IK60VA-ESM	Single-Phase 230	50	0.04	6	500
		Sillyle-Filase 230	60	0.04	O	500

The specifications apply to the motor only.

Product Line

Combination Type

The combination type comes with a motor and a gearhead pre-assembled.

The combination of the motor and the gearhead can be changed.

They are also available separately.

You can also remove the gearhead to change the installation position by 90°.

Combination Type

Product Name	Gear Ratio
	5, 6, 7. 5, 9, 12.5, 15, 18
FIV 4 OVEC MTO	25, 30, 36, 50, 60, 75, 90, 100
SIKOUVESMII Z-L	120, 150, 180
	250, 300
	5, 6, 7. 5, 9, 12.5, 15, 18
F11// 63/F644 -	25, 30, 36, 50, 60, 75, 90, 100
SIKOUVESM-	120, 150, 180
	250, 300
	Product Name 5IK60VESMT2- 5IK60VESM-

The following items are included in each product. Motor, Gearhead, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type

Туре	Product Name
Terminal Box Type	5IK60VA-ESMT2
Cable Type	5IK60VA-ESM

The following items are included in each product. Motor, Operating Manual

There is no built-in overheat protection device (thermal protector).

To prevent the motor from burning out when an excess load is applied or the output shaft is locked, use the electrical thermal function of the electromagnetic switch or the inverter.

To combine this model with an inverter, set the frequency of the inverter to 120 Hz or lower.

Permissible Torque on Combination Types

●50 Hz Unit: N·m

Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3	6	5
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK60VESMT2-□, 5IK60	VESM-	1.8	2.2	2.8	3.3	4.6	5.5	6.6	8.8	10.6	12.7	17.6	21.2	26.4	30	30	30	30	30	30	30

●60 Hz Unit : N·m

Product Name	Speed r/min	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	7.2	6
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK60VESMT2-□, 5IK60VESM-□			19	2.4	2.8	3.9	4.7	5.7	7.5	9.0	10.8	15.1	18.1	22.6	27.1	30	30	30	30	30	30

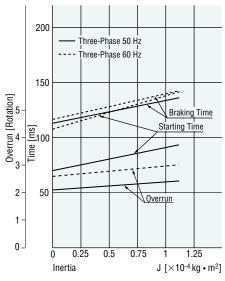
[■] The speed is calculated by dividing the motor's synchronous speed (50 Hz: 1500 r/min, 60 Hz: 1800 r/min) by the gear ratio.

Permissible Radial Load/Permissible Axial Load

Permissible Inertia J of Combination Types

→ page 56 → page 55

Starting and Braking Characteristics (Reference values for the motor only)

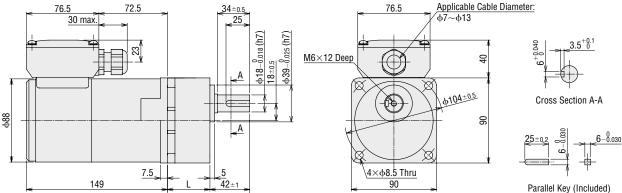


Dimensions (Unit = mm)

- "Installation screws" are included with the combination type. Dimensions of installation screws → page 55
- The cable outlet of the terminal box can be changed and fixed to four different directions. The cable outlet of the cable type can be done so to two different directions.
- lacktriangle A number indicating the gear ratio is entered where the box \Box is located within the product name.

Combination Type

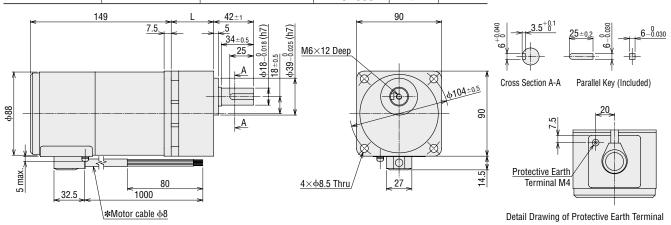
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
			5~18	45	
5IK60VESMT2-□	5IK60VGVH-ESMT2	5GVH□B	25~100	58	4.8
			120~300	64	
76.5 30 max.	72.5	34±0.5 25	~	70.0	Applicable Cal



The actual speed is 2 to 10% less, depending on the load.

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

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	Ĺ	Mass kg
			5~18	45	
5IK60VESM-□	5IK60VGVH-ESM	5GVH□B	25~100	58	4.5
			120~300	64	

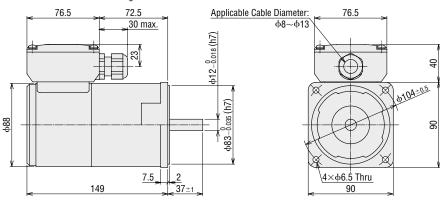


*Motor Cable Cores

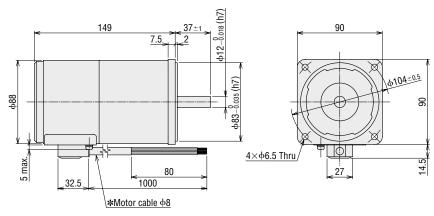
- 3 Motor Leads UL Style 3271, AWG20
- 2 Electromagnetic Brake Leads UL Style 3266, AWG22

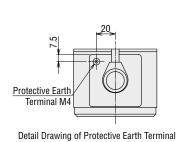
Round Shaft Type

5IK60VA-ESMT2 Mass: 3.3 kg



5IK60VA-ESM Mass: 3.0 kg





- *****Motor Cable Cores 3 Motor Leads UL Style 3271, AWG20
- 2 Electromagnetic Brake Leads UL Style 3266, AWG22

KΠ Series

110-230 VAC

15 W 110–230 VAC

25 W 110-230 VAC Induction

40 W 110-230 VAC

60 W 110-230 VAC

90 W 110–230 VAC

ΚIIS

60 W 220, 230 VAC

100 W 220, 230 VAC Induction

100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220-400 VAC

ΚIIS

60 W 220, 230 VAC

100 W 220, 230 VAC

Electromagnetic Brake Type Motors

100 W

□90 mm

Combination Type, Round Shaft Type



Specifications - Continuous Rating

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C // LAUS	(· · · ·	\sim	

Upper Level: Co	Product Name Upper Level: Combination Type Lower Level: Round Shaft Type			Frequency	Current	Starting Torque	Rated Torque	Rated Speed
Terminal Box Type	Box Type Cable Type		VAC	Hz	Α	mN·m	mN·m	r/min
		100	Three-Phase 220	50	0.55	850	690	1400
5IK100VESMT2-□	5IK100VESM-□	100	Tillee-Filase 220	60	0.48	700	570	1680
5IK100VA-ESMT2	5IK100VA-ESM	100	Three-Phase 230	50	0.57	850	690	1400
		100	illiee-rilase 230	60	0.48	700	570	1680

The specifications apply to the motor only.

Electromagnetic Brake (Power off activated type)

Produc	t Name	Voltage	Frequency	Current	Input	Static Friction Torque
Terminal Box Type	Terminal Box Type Cable Type		Hz	Α	W	mN·m
5IK100VESMT2-□ 5IK100VA-ESMT2		Single-Phase 220	50	0.04	6	500
	5IK100VESM-□ 5IK100VA-ESM	Sillyle-Filase 220	60	0.04	0	300
		Single-Phase 230	50	0.04	6	500
		Jillyle-FildSe 230	60	0.04	"	500

The specifications apply to the motor only.

Product Line

	The combination type comes with a motor and a gearhead pre-assembled.	Combination Type	Motor	Gearhead
Combination	The combination of the motor and the gearhead can be changed.			
Туре	They are also available separately.			+
	You can also remove the gearhead to change the installation position by 90°.			

Combination Type

Type	Product Name	Gear Ratio
Torminal Day		5, 6, 7. 5, 9, 12.5, 15, 18
	Type 5IK100VESMT2-□	25, 30, 36, 50, 60
туре		7 5, 90, 100, 120, 150, 180
		5, 6, 7. 5, 9, 12.5, 15, 18
Cable Type	5IK100VESM-□	25, 30, 36, 50, 60
		<i>7</i> 5, 90, 100, 120, 150, 180

- The following items are included in each product.

Motor, Gearhead, Installation Screws, Parallel Key, Operating Manual

Round Shaft Type

Туре	Product Name
Terminal Box Type	5IK100VA-ESMT2
Cable Type	5IK100VA-ESM

The following items are included in each product. — Motor, Operating Manual

There is no built-in overheat protection device (thermal protector).

To prevent the motor from burning out when an excess load is applied or the output shaft is locked, use the electrical thermal function of the electromagnetic switch or the inverter.

To combine this model with an inverter, set the frequency of the inverter to 120 Hz or lower.

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

Permissible Torque on Combination Types

50 Hz Unit: N·m Speed 300 250 200 166 120 100 83 60 50 41 30 25 20 16.6 15 12.5 10 8.3 **Product Name** Gear Ratio 5 6 7.5 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180 5IK100VESMT2-_, 5IK100VESM-_ 9.3 3.1 3.7 4.7 5.6 7.8 10.7 14.8 17.8 21.4 29.7 35.6 40 40 40 40 40 40

●60 Hz	●60 Hz Unit:N·n															Unit : N·m			
Product Name	Speed r/min	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5IK100VESMT2-□, 5IK	100VESM-□	2.6	3.1	3.8	4.6	6.4	7.7	8.8	12.3	14.7	17.6	24.5	29.4	34.6	40	40	40	40	40

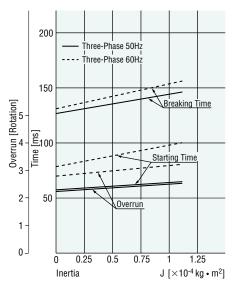
The speed is calculated by dividing the motor's synchronous speed (50 Hz: 1500 r/min, 60 Hz: 1800 r/min) by the gear ratio.
The actual speed is 2 to 10% less, depending on the load.

Permissible Radial Load/Permissible Axial Load

Permissible Inertia J of Combination
Types

→ page 56 → page 55

Starting and Braking Characteristics (Reference values for the motor only)



90 W
110–230 VAC

KIIS
Series

60 W
220, 230 VAC

100 W
220, 230 VAC

Hollow/Solid Shaft

200 W
220–400 VAC

KIIS
Series

With Electromagnetic 60 W
220, 230 VAC

KII Series

6 W

110-230 VAC

15 W 110–230 VAC

25 W 110–230 VAC

40 W

60 W 110–230 VAC

110-230 VAC

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

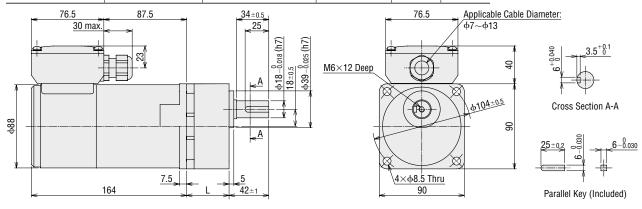
Dimensions (Unit = mm)

- "Installation screws" are included with the combination type. Dimensions of installation screws → page 55
- The cable outlet of the terminal box can be changed and fixed to four different directions. The cable outlet of the cable type can be done so to two different directions.
- A number indicating the gear ratio is entered where the box

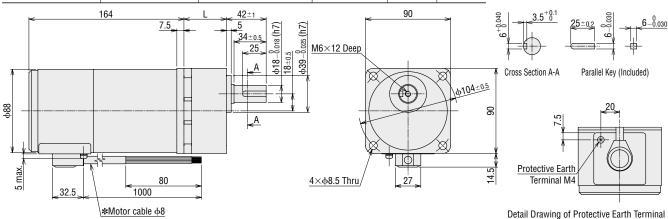
 is located within the product name.

Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
			5~15	45	
5IK100VESMT2-□	5IK100VGVR-ESMT2	5GVR□B	18~36	58	5.4
			50~180	70	



Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
			5~15	45	
5IK100VESM-□	5IK100VGVR-ESM	5GVR□B	18~36	58	5.1
			50~180	70	

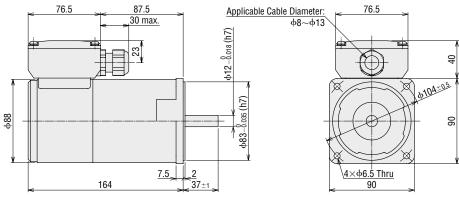


*Motor Cable Cores

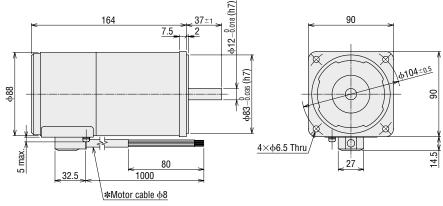
- 3 Motor Leads UL Style 3271, AWG20
- 2 Electromagnetic Brake Leads UL Style 3266, AWG22

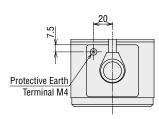
Round Shaft Type

5IK100VA-ESMT2 Mass: 3.9 kg



5IK100VA-ESM Mass: 3.6 kg





Detail Drawing of Protective Earth Terminal

*****Motor Cable Cores

- 3 Motor Leads UL Style 3271, AWG20
- 2 Electromagnetic Brake Leads UL Style 3266, AWG22

KΠ Series

110-230 VAC

15 W 110–230 VAC

25 W 110-230 VAC Induction

40 W 110-230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

ΚIIS

60 W 220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC Hollow/Solid Shaft

200 W 220-400 VAC

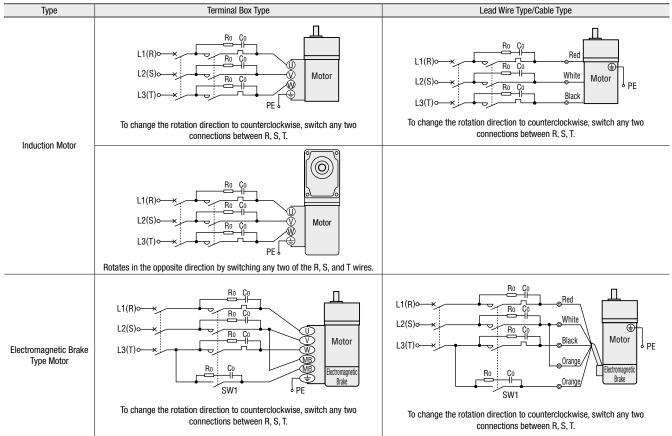
KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VAC

Connection Diagram

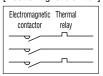
Combination Type, Round Shaft Type



Note

To prevent the motor from burning out when an excess load is applied or the output shaft is locked, make sure to use the electromagnetic switch. For the recommended electromagnetic switch, see the following.

[Electromagnetic switch]



[Surge voltage measure]

Please connect a CR circuit for surge suppression (_____).

 $R_0 = 5 \sim 200 \ \Omega$

 $C_0 = 0.1 {\sim} 0.2 \ \mu F \ 200 \ WV$

For 200 W 400 V motor: C_0 =0.1 \sim 0.2 $\mu F~500$ WV

Oriental Motor also offers the **EPCR1201-2** as an accessory (sold separately).

[Contact capacity of the switch SW1] 250 VAC Inductive load 5A or more (Linked)

◇Rotation Direction (for the wiring diagram above)

The rotation direction of the output shaft differs depending on the gear ratio as follows:

	60 W	Gear Ratio 5~18, 120~300	60 W	Gear Ratio	Туре	Gear Ratio 15∼60
Туре		Round Shaft Type		25~100		
турс	100 W	Gear Ratio 5~15,75~180 Round Shaft Type	100 W	Gear Ratio 18∼60	Hollow Shaft Type	CW
	[Clockw	ise]	[Counter	rclockwise]		
Rotation Direction		Cow		CCW	Solid Shaft Type	R Shaft L Sha

Gear Ratio 75~240

L Shaft

R Shaft

L Shaft

About direct connection to power supply

When connecting the motor to a power supply, make sure to connect an electromagnetic switch.

For the setting current of the thermal relay, set the rated current of the motor.

	Rated specification of the motor																
Motor Output Power	60 W					10	0 W			200 W							
Voltage VAC	22	20	23	30	2:	20	230		220		230		380		400		415
Frequency Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50
Rated Current A	0.37	0.33	0.38	0.33	0.55	0.48	0.57	0.48	1.00	0.90	1.02	0.89	0.56	0.56	0.57	0.52	0.51

About use with an inverter

To combine with an inverter, meet the following condition on the frequency of the inverter.

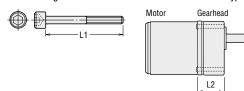
· Combination type · Round shaft type: 120 Hz or less · Right-angle shaft geared type: 100 Hz max.

For details on the settings and notes concerning the motor, see the operating manual.

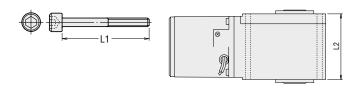
Dimensions of Installation Screws

Combination Type

The following screws are included with the combination type.



Right-angle Shaft Geared Type



Gearhead Product Name	Installatio	L2 (mm)	
deameau Floudel Name	L1 (mm)	Screw Size	LZ (IIIII)
5GVH5B~18B	70		52.5
5GVH25B~100B	85		65.5
5GVH120B~300B	90	M8 P1.25	71.5
5GVR5B~15B	70	WIO P1.25	52.5
5GVR18B~36B	85		65.5
5GVR50B~180B	95		77.5

Product Name	motunatio	L2 (mm)	
Floudet Name	L1 (mm)	Screw Size	LZ (IIIII)
7IK	135	M10 P1.5	120

Inetallation ecrow

Unit: $\times 10^{-4}$ kg·m²

Installation screws: 4 plain washers and 4 spring washers are included.

The installation screw material is stainless steel.

Permissible Inertia J of Combination Types

									_	-											
Product Nar	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	250	300
5IK60		45	65	100	150	300	420	620	1100	1600	2300	4500	6000	8000	10000	12000	17000	25000	25000	25000	25000
	At Instantaneous Stop	27.5	39.6	61.9	89.1	172	248	356	688	990	1426	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750
5IK100		45	65	100	150	300	420	620	1100	1600	2300	4500	6000	8000	10000	12000	17000	25000	25000	_	_
	At Instantaneous Stop	27.5	39.6	61.9	89.1	172	248	356	688	990	1426	2750	2750	2750	2750	2750	2750	2750	2750	_	_

Permissible Inertia J of Right-angle Shaft Geared Types

Product Nar	Gear Ratio	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	240
5IK100		100	190	420	700	1100	1600	2800	4500	6000	8000	12000	17000	25000	25000	25000
	At Instantaneous Stop	61.9	110	248	440	688	990	1760	2750	2750	2750	2750	2750	2750	2750	2750
7IK200	At Instantaneous Stop		_	450	800	1250	1800	3200	5000	5000	5000	5000	5000	5000	5000	5000

Note Do not perform instantaneous bi-directional operations.

KΠ Series

110-230 VAC

15 W 110–230 VAC

25 W 110-230 VAC

40 W 110-230 VAC

> 60 W 110-230 VAC

90 W 110-230 VAC

KIIS

60 W 220, 230 VAC

100 W 220, 230 VAC

100 W 220, 230 VAC

200 W

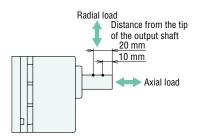
KIIS

100 W

Permissible Radial Load/Permissible Axial Load

Combination Type

Product		Permissible F	Permissible Axial Load	
Name Gear Ratio		Distance from the tip of the output shaft 10 mm Distance from the tip of the output shaft 20 mm		N N
	5~9	400	500	
5IK60	12.5~18	450	600	150
	25~300	500	700	
	5~9	400	500	
5IK 100	12.5~18	450	600	150
	25~180	500	700	

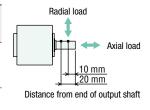


Round Shaft Type

Droduct	Permissible F	Radial Load N	
Product Name Distance from the tip of the output shaft 10 mm		Distance from the tip of the output shaft 20 mm	Permissible Axial Load
5IK60 5IK100	240	270	Half of motor mass or less

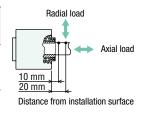
Solid Shaft Type

Product		Permissible I	Radial Load N	Permissible Axial Load	
Name Gear Ratio		Distance from the tip of the output shaft 10 mm output shaft 20 mm		N	
5IK100	7.5∼40	900	1000	350	
JIKTOO	50~240	1700	1850	000	
7IK200	15∼40	1900	2000	800	
7 IR 200	50~240	3200	3400	500	



Hollow Shaft Type

Product		Permissible F	Permissible Radial Load N					
Name Gear Ratio		Distance from the tip of the output shaft 10 mm Distance from the tip of the output shaft 20 mm		Permissible Axial Load N				
5IK100	7.5~40	1200	1100	350				
JIK 100	50~24 0	2200	2000					
7IK200	15~40	2400	2200	800				
7 IK 200	50~24 0	3200	3000	300				



♦ Calculation of permissible radial load for hollow shaft type

If one side of the load shaft is not borne by a bearing unit, etc. like in the diagram to the right, the formula for permissible radial load as follows. (This mechanism is the strictest in terms of radial load.)

\bullet For a gear ratio of $15{\sim}40$

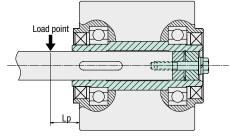
Permissible radial load W [N] = $\underline{105.5}$ \times 2620 [N] $\underline{105.5}$ + L_P

2620[N]: Permissible radial load on flange-installation surface

\bullet For a gear ratio of $50\sim240$

Permissible radial load W [N] = $\underline{105.5}$ \times 3500 [N] $\underline{105.5}$ + LP

3500[N]: Permissible radial load on flangeinstallation surface



Lp [mm]: Distance from flange-installation surface to radial load point

^{*}The radial load from each distance can also be calculated with a formula.

Hollow Shaft Type Load Shaft Installation Method

Load shaft installation method example

Installation of the load shaft differs depending on the fixing method. Please install according to the figure below.

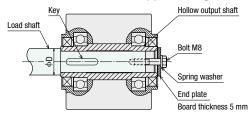
- When installing a load shaft onto a hollow output shaft, please align the center lines of the hollow shaft and the load shaft.
- The hollow output shaft is key slot-processed. Please also key slot-process the load shaft side and fix with the included key.
- A load shaft tolerance of h7 is recommended.
- Please use a stepped load shaft if there is a lot of shock due to frequent instantaneous stops or a large radial load.

Note

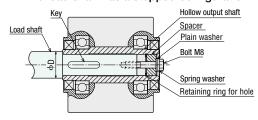
- When installing a load shaft onto a hollow output shaft, please ensure that the hollow output shaft and bearing are not damaged.
- Please apply grease to the surface of the load shaft and the inner surface of the hollow output shaft in order to prevent sticking.
- Please do not modify or machine-process the hollow output shaft. Doing so may cause damage to the bearing.

Fixing method using an end plate

• If the load shaft has a stepped configuration



• If the load shaft has a stepped configuration



Please install a safety cover after installing the load shaft.

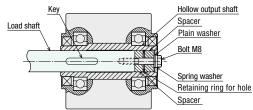
Recommended load shaft installation dimensions

Unit: mm

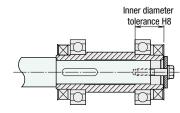
Product Name	7IK
Inner diameter of hollow shaft (H8)	ф30 ^{+0.033}
Load shaft diameter (h7)	ф30_0021
Nominal diameter of retaining ring for hole	φ30 C type retaining ring
Outer diameter of stepped shaft φD	ф44
Spacer thickness	6

A retaining ring for hole, spacer, bolts, etc. for installing the load shaft are not included. These must be arranged by the customer.

• If the load shaft does not have a stepped configuration



♦ Length of load shaft



8 mm min. is recommended for the inner diameter tolerance H8 on the fixing side of the load shaft.

KII Series

> 6 W 110–230 VAC

15 W 110–230 VAC

25 W 110-230 VAC

40 W 110–230 VAC

60 W 110–230 VAC

90 W 110–230 VAC

KIIS Series

60 W 220, 230 VAC

100 W 220, 230 VA

100 W 220, 230 VAC Hollow/Solid Sha

200 W 200, 400 W

KIIS Series

> 60 W 220, 230 VAC

100 W 220, 230 VA

Combination Type Motor and Gearhead Combinations

The combination type comes with a motor and a parallel shaft gearhead pre-assembled.

Induction Motor

• madetion motor		
Product Name	Motor Product Name	Gearhead Product Name
5IK60VEST2-□	5IK60VGVH-EST2	5GVH□B
5IK100VEST2-□	5IK100VGVR-EST2	5GVR□B
5IK60VES-□	5IK60VGVH-ES	5GVH□B
5IK100VES-□	5IK100VGVR-ES	5GVR□B

Electromagnetic Brake Type Motor

Product Name	Motor Product Name	Gearhead Product Name
5IK60VESMT2-□	5IK60VGVH-ESMT2	5GVH□B
5IK100VESMT2-□	5IK100VGVR-ESMT2	5GVR□B
5IK60VESM-□	5IK60VGVH-ESM	5GVH□B
5IK100VESM-□	5IK100VGVR-ESM	5GVR□B

Accessories (Sold separately)

Motor and Gearhead Mounting Brackets



These dedicated mounting brackets are for mounting motors and gearheads.

Product Line

Product Name	Applicable Product
SOL2M4F	2IK6 Round Shaft Type 2IK6 Combination Type
SOL3M5F	3IK15 Round Shaft Type
SOL3M6F	3IK15 Combination Type
SOL4M5F	4IK25 Round Shaft Type
SOL4M6F	4IK25 Combination Type
SOL5M6F	51K Round Shaft Type
SOL5M8F	51K Combination Type

CR Circuit for Surge Suppression

Please use for the contact protection of switches and relays used on the bi-directional circuit of the motor.

♦ Product name: EPCR1201-2

List price: 300 yen 250 VAC (120 Ω , 0.1 μ F)



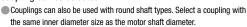
Product Name
EPCR 1 201-2

250 VAC (120 Ω , 0.1 μ F)



Flexible Couplings

A clamp type coupling for connecting the motor/gearhead shaft with the driven shaft. Once the gearhead is determined, the coupling can be selected.





A clamp type coupling for connecting the geared motor of a solid shaft type with a driven shaft.



Product Line

Mo	Coupling Type			
Uniform Load	Uniform Load Impact Load			
21	MCL30			
3IK15	_	MCL30		
_	3IK15	MCL40		
4IK25	MCL40			
- 4IK25		MCL55		
5IK40, 5IK90,	MCL55			

Product Line

Product Name	Applicable Product				
MCL65M2528	7IK200VJST2-GA				
MCL65M2828	Right-angle shaft geared type Solid shaft type				

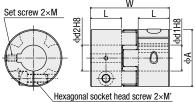
Specifications

	Dimensions					Normal	Mass	Inertia	Permissible	Permissible	End Play		
Product Name	Outer Diam- eter ϕA	Overall Length W	Shaft Hole Diameter d1H8	Shaft Hole Diameter d2H8	L	Set screw	Hexagonal socket head screw	Torque	Widoo	morda	Eccentricity	Declination	LiuTiay
	[mm]	[mm]	[mm]	[mm]	[mm]	М	M'	[N·m]	[g]	J [×10 ⁻⁴ kg⋅m ²]	[mm]	[°]	[mm]
MCL65M2528	ф65 87.5	87.5	25	28	35	M5	M10	200	560	3.5	0.08	1.0	+1.5
MCL65M2828	φυσ	07.3	28	28	33	IVIO	IVITO	200	300	3.5	0.00	1.0	0

The above specifications are the values when combined with an Oriental Motor geared motor.

Dimensions (Unit = mm)

MCL65M type







Shaft hole diameter (φd1)	Key slot width b	Key slot depth t		
ф25	8+0.052	3.3+0.2		
ф28	0 0	0.0 0		

[■] Either **R** or **L** indicating the direction of the output shaft is specified in the box **II** in the product name.

 $[\]blacksquare$ A number indicating the gear ratio is specified in the box \Box in the product name.

■Torque Arm

This is an anti-spin mechanism that prevents the gearhead from rotating due to reactive force from the load shaft when installing the gearhead of a right-angle, hollow shaft geared type.



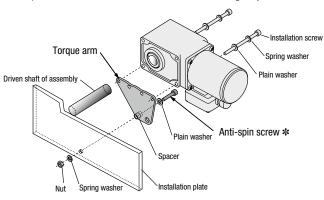
Product Line

Material: Stainless steel

Product Name	Applicable Product				
SOT7A	7IK200VJST2-GHR Right-angle shaft geared type	Hollow shaft type			

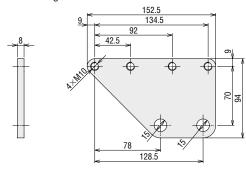
Installation Method

*Anti-spin M10 screws are not included. These must be arranged by the customer.



Dimensions (Unit = mm)

Mass: 620 g



For more details on the mounting brackets, dimensions of the flexible couplings, CAD data, and operating manual, visit our WEB site.

Oriental motor

These products are manufactured at plants certified with the international standards ISO 9001 (for quality assurance) and ISO 14001 (for systems of environmental management).

> Specifications are subject to change without notice. This catalogue was published in September, 2015.

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