Electromagnetic Brake Motors

Lead Wire Type

<Additional Information>

- Technical reference → Page H-1
- Regulations & Standards → Page I-2

KII Serie

6 W

15 W

25 W

40 W

60 W

90 W

High-Efficiency **K⊞S** Series

60 W

100 W

For detailed information about regulations and standards, please see the Oriental Motor website.

 Power Off Activated Type Electromagnetic Brake Equipped

- Ideal for Applications Required Load Holding
- Hypoid Gear Right Angle Type is Available
- Compatible with Gearheads

Features, Product Line

Features of Electromagnetic Brake Motors

 Power Off Activated Type Electromagnetic Brake Equipped

Terminal Box Type

An AC power off activated type electromagnetic brake is equipped to allow the motor to stop instantaneously when the power is cut off, while still holding the load in position.

Ideal for Applications Required Load Holding

This configuration is ideal for vertical applications in which the load must be held.

Types of Electromagnetic Brake Motors

Series

KII Series

New Global Standard

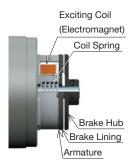
With a high performance gearhead built in, it is the new global standard for standard AC motors.
Feature of the KII Series → Page C-92

 Equipped with a High-Performance Gearhead

• D • O ((A + 1) +

Power Off Activated Type Electromagnetic Brake Equipped

An AC power off activated type electromagnetic brake is equipped. When the power source is turned OFF, the motor stops instantaneously and holds the load.



[Structural Drawing]

Product Line

Frame Size	□60 mm~□90 mm
Output Power	6 W~90 W
Туре	Parallel Shaft, Round Shaft Type
Voltage	Single-Phase 220/230 VAC

KIIS Series



™ (€

High Efficiency Three-Phase Motors through Optimal Design

A review of the basic motor design has yielded unprecedented high efficiency and energy savings.

Best Characteristics with Inverter Combination

Speed can be controlled over a wide range, and high torque is exerted even at low speeds. Because it is a high-performance motor with little speed reduction even with a large load, stabilized speed control is possible.

Product Line

Frame Size	□90 mm
Output Power	Right-Angle Geared: 100 W Parallel Shaft Combination: 60 W, 100 W Round Shaft: 60 W, 100 W
Voltage	Three-Phase 220/230 VAC

Feature of the KIIS Series → Page C-116

Overview, Product Series

> Single-Phase Induction Motors Three-Phase Induction Motors

Product Line of Electromagnetic Brake Motors

			Motor Frame Size, Output Power											
Series	Voltage (VAC)	Туре	□60 mm	□70 mm	□80 mm		□90	mm						
			6 W	15 W	25 W	40 W	60 W	90 W	100 W					
KII Series	Single-Phase 220/230	Terminal Box Type				•	•	•						
Parallel Shaft Combination Type Round Shaft Type	Siligie-Pilase 220/230	Lead Wire	•	•	•	•	•	•						
KIIS Series	Three-Phase 220/230	Terminal Box Type							•					
Right-Angle Geared Type	Tillee-Filase 220/230	Lead Wire							•					
KIIS Series	Three-Phase 220/230	Terminal Box Type					•		•					
Parallel Shaft Combination Type Round Shaft Type	THEE-FHASE 220/230	Lead Wire					•		•					

System Configuration

*Not supplied.

Electromagnetic Brake Motors

Reversible Motors

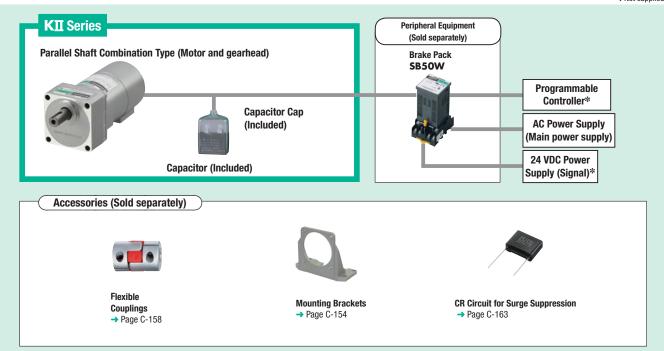
Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

Installation



●Example of System Configuration

Electromognotic			Sold Separately	
Electromagnetic Brake Motor	+	Mounting Bracket	Flexible Coupling	CR Circuit for Surge Suppression
5RK40GCM-25	'	SOL5M8F	MCL551818	EPCR1201-2
€227.00		€25.00	€72.00	€3.00

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

15 W

25 W

40 W

60 W

90 W

High-Efficiency

KIIS Series

60 W

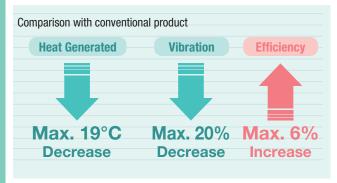
100 W

Features of the **KII** Series

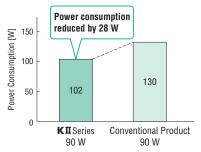
Excellent Motor Performance

The magnetic balance for each input voltage has been re-examined and the motors have been specially designed to optimize their characteristics.

Designing specifically for each voltage not only improves efficiency, but also contributes to equipment reliability by reducing heat and vibration generated by the motor.

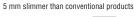


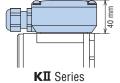
Energy Savings



Built-In Slim Body Terminal Box (Terminal box type)

A new shape of terminal box was designed to make wiring the terminal block easier. It is slimmer than conventional products, and the cable outlet can be rotated in 90° increments for 4 possible directions.







IP66 Compliant Drip-proof Specification

The seal structure for the motor, gearhead and terminal box components has been strengthened. The terminal box type is compliant with the IP66 degree of protection. IP66:

The IP indication that shows the watertight and dust-resistant performance are specified under IEC 60529 and IEC 60034-5.

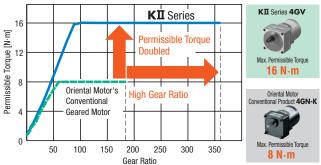
Main Specifications Material Case and terminal box: Aluminum Output shaft: S45C Screws: Stainless steel (externally facing screws only) Surface Treatment Case and terminal box: Painted (excluding installation surface)

Equipped with a High-Performance Gearhead

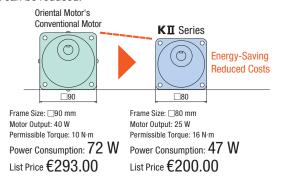
High Permissible Torque

The permissible torque is up to twice that of conventional products.

25 W Gearhead Output Torque (Permissible)



♦ Downsizing is Possible with the Same Output Torque Downsizing is possible by changing our company's conventional products with the KII Series. If a smaller size motor can be selected, not only the power consumption but also the purchase cost can be reduced.



High Strength

The permissible radial load and the permissible axial load are up to twice that of conventional products.



Long-Life

At 10,000 hours, the rated life is twice that of a conventional product.

Noise Reduction

The contact noise of the motor and gearhead is approximately 6 dB less compared to a conventional product.

Product Number

● KII Series

◇Parallel Shaft Combination Type

◇Round Shaft Type

A - GC M T2

R K 40 GC M T2 - 100 1 2 3 (5) 4 6 7 8 8 (5) 6 7

1	Motor Frame Size	2 : 60 mm 3 : 70 mm 4 : 80 mm 5 : 90 mm										
2	Product Name	R: Reversible Motor										
3	Series Name	K: KII Series										
4	Output Power	(Example) 40 : 40 W										
(5)	Power Supply Voltage/ Number of Poles	11 2 4-Pole (#K.: Single-Phase 220/230 VAL: 601 HZ) 4-Pole (#W.: Single-Phase 220/230 VAL: 601 HZ) 4-Pole										
6	M: Type with a Power Off Activ	ated Electromagnetic Brake										
7	T2: Terminal Box Type Blank:	Lead Wire Type or Cable Type										
8	Gear Ratio and Shaft Type	Number: Gear Ratio for Combination Types A: Round Shaft Type										

General Specifications

● KII Series

Item	Specification										
Insulation Resistance	$00 \text{ M}\Omega$ or more when a 500 VDC megger is applied between the motor windings and the case after 30 minutes continuous operation under normal ambient temperature and humidity.										
Dielectric Voltage	ifficient to withstand 1.5 kVAC at 50 Hz or 60 Hz applied between the motor windings and the case for 1 minute after 30 minutes continuous operation under normal nbient temperature and humidity.										
Temperature Rise	gearhead or equivalent heat sink* is connected to the motor and the winding temperature rise is measured at 80°C or less using the resistance change method after 30 ninutes continuous operation with no load under normal ambient temperature and humidity.										
Termal Class	130 (B)										
Overheat Protection Device	6 W Impedance Protected Other Built-in Thermal Protector (Automatic return type) Open: 130±5°C Reset: 85±20°C										
Operating Ambient Temperature	−10~+40°C (Non-freezing)										
Operating Ambient Humidity	85% or less (Non-condensing)										
Degree of Protection	Terminal Box Type : IP66 (40 W Excluding installation surface, refer to page C-92 for the materials and surface treatments.) : IP20 (60 W, 90 W) Lead Wire Type : IP20 (60 W, 15 W, 25 W) Cable Type : IP40 (40 W) : IP20 (60 W, 90 W)										

*Heat sink size (Material: Aluminum)

	Motor Output Power	Size (mm)	Thickness (mm)				
-6	i W	115×115					
1	5 W	125×125					
2	25 W	135×135	5				
4	0 W	165×165					
6	60 W, 90 W	200×200					

Overview, Product Series

Single-Phase Induction Motors

Three-Phase Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

15 W

25 W

40 W

60 W

90 W

High-Efficiency KIIS Series

60 W

100 W

KII Series

6W

□60 mm

Parallel Shaft Combination Type, Round Shaft Type



Specifications – 30 Minutes Rating

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitance	Overheat Protection Device
Lead Wire Type W		VAC	Hz	Α	mN⋅m	mN·m	r/min	μF	201100
2RK6GCM-□	6	Single-Phase 220	50	0.105	50	45	1280	0.8	
2RK6A-GCM	0	Single-Phase 230	30	0.109	50	45	1280	0.0	ZP
2RK6UCM-□	6	Single-Phase 220	60	0.112	50	36	1600	0.8	
2RK6A-UCM	0	Single-Phase 230	00	0.116	50	36	1600	0.0	

The values in the table are characteristics for the motor only.

Electromagnetic Brake (Power Off Activated Type)

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type	Voltage	Frequency	Current	Power Consumption	Static Friction Torque
Lead Wire Type	VAC	Hz	Α	W	mN·m
2RK6GCM-□	Single-Phase 220	50	0.02	3	30
2RK6A-GCM	Single-Phase 230	30	0.02	3	30
2RK6UCM-□	Single-Phase 220	60	0.02	3	30
2RK6A-UCM	Single-Phase 230	00	0.02	3	30

The values correspond to the specifications of a stand-alone motor.

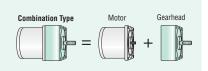
Product Line

Motor and gearhead are delivered pre-assembled.

Combination Type

The combination of motors and gearheads can be changed, and they are also available separately.

In addition, the gearhead can be removed and the assembly position can be changed in 90° increments.



For the single-phase 100 VAC, 110/115 VAC models and single-phase 200 VAC models, please contact the nearest Oriental Motor sales

Parallel Shaft Combination Type Price includes motor and gearhead.

Product Name	Gear Ratio	List Price
	5, 6, 7. 5, 9, 12 . 5, 15, 18	€155.00
2RK6GCM-□	25, 30, 36	€160.00
ZKKOGCMI-	50, 60, 75, 90, 100, 120, 150, 180	€165.00
	250, 300, 360	€200.00
	5, 6, 7. 5, 9, 12 . 5, 15, 18	€155.00
2RK6UCM-□	25, 30, 36	€160.00
ZKKOUCM-	50, 60, 75, 90, 100, 120, 150, 180	€165.00
	250, 300, 360	€200.00

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

Round Shaft Type

Product Name	List Price
2RK6A-GCM	€111.00
2RK6A-UCM	€111.00

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

ZP: This indicates that it is impedance protected

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

Permissible Torque

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 max. 30% less, depending on the load.

● 30 HZ												ι	Jnit: 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
FIUUUCI Naille	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
2RK6GCM-□		0.20	0.24	0.30	0.36	0.51	0.61	0.73	1.0	1.2	1.4	1.9	2.3	2.9	3.5	3.9	4.6	5.5	6	6	6	6

Overview, Product Series

●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	5
Froduct Name	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
2RK6UCM-□		0.16	0.19	0.24	0.29	0.41	0.49	0.58	0.81	0.93	1.1	1.5	1.9	2.3	2.8	3.1	3.7	4.4	5.2	6	6	6

Single-Phase Induction Motors

Starting and Braking Characteristics (Reference Values - Motor only)

Induction Motors Reversible

Motors

Electromagnetic Brake Motors

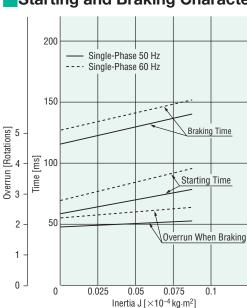
Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

Installation



Permissible Radial Load and Permissible **Axial Load**

→ Page C-16

Permissible Inertia J of Combination **Types**

→ Page C-18

15 W

25 W

40 W

60 W

90 W

60 W

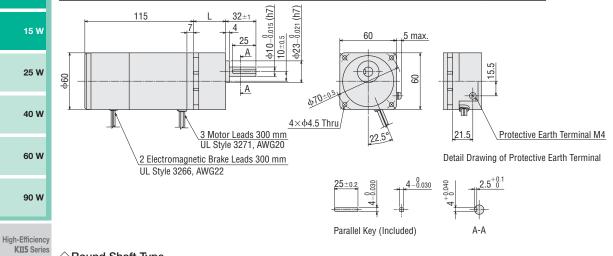
100 W

Dimensions Unit = mm

■ Installation screws are included with the parallel shaft combination type. Dimensions for installation screws → Page C-170

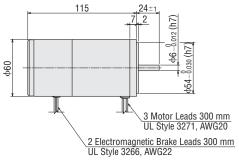
Lead Wire Type

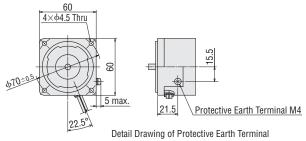
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
ODIZZIICM 🗆	2RK6GV-UCM		5~25	34	
2RK6UCM-□ 2RK6GCM-□	2RK6GV-UCM 2RK6GV-GCM	2GV□B	30~120	38	1.5
			150~360	43	

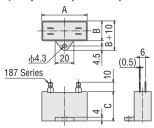


2RK6A-UCM, 2RK6A-GCM

Mass: 1.0 kg







						Unit: mm
Product Na	ame	Capacitor	Α	В	С	Mass
Parallel Shaft Combination Type	Round Shaft Type	Product Name	A	D	'	g
2RK6GCM-□	2RK6A-GCM	CH08BFAUL	31	17	27	23
2RK6UCM-□	2RK6A-UCM	CH08BFAUL	31	17	27	23

A capacitor cap is included.

KII Series

15 W

□70 mm

3RK15A-UCM



Parallel Shaft Combination Type, Round Shaft Type

Specifications – 30 Minutes Rating

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitance	Overheat Protection Device
Lead Wire Type	W	VAC	Hz	А	mN·m	mN·m	r/min	μF	Device
3RK15GCM-□	15	Single-Phase 220	50	0.177	110	109	1330	1.5	
3RK15A-GCM	15	Single-Phase 230	30	0.184	125	109	1330	1.5	TP
3RK15UCM-□	15	Single-Phase 220	60	0.173	90	90	1610	1.0	ir ir
ODIVI CA LICAA	10	0' I - DI 000	טט ן	0.477	400	90	1010		

The values in the table are characteristics for the motor only.

Electromagnetic Brake (Power Off Activated Type)

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type	Voltage	Frequency	Current	Power Consumption	Static Friction Torque
Lead Wire Type	VAC	Hz	A	W	mN·m
3RK15GCM-□	Single-Phase 220	50	0.05	7	80
3RK15A-GCM	Single-Phase 230	30	0.05	,	00
3RK15UCM-□	Single-Phase 220	60	0.05	7	80
3RK15A-UCM	Single-Phase 230	00	0.05	·	00

Single-Phase 230

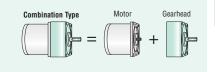
Product Line

Combination Type

Motor and gearhead are delivered pre-assembled.

The combination of motors and gearheads can be changed, and they are also available separately.

In addition, the gearhead can be removed and the assembly position can be changed in 90° increments.



For the single-phase 100 VAC, 110/115 VAC models and single-phase 200 VAC model, please contact the nearest Oriental Motor sales

Parallel Shaft Combination Type Price includes motor and gearhead.

Product Name	Gear Ratio	List Price
	5, 6, 7. 5, 9, 12.5, 15, 18	€165.00
3RK15GCM-□	25, 30, 36	€169.00
JKK I JOCM-	50, 60, 75, 90, 100, 120, 150, 180	€175.00
	250, 300, 360	€209.00
	5, 6, 7. 5, 9, 12.5, 15, 18	€165.00
3RK15UCM-□	25, 30, 36	€169.00
3RK 15UCM-	50, 60, 75, 90, 100, 120, 150, 180	€175.00
	250, 300, 360	€209.00

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

Round Shaft Type

Product Name	List Price
3RK15A-GCM	€117.00
3RK15A-UCM	€117.00

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

■ A number indicating the gear ratio is specified where the box
is located in the product name.

Contact TEL

CAD Data www.orientalmotor.eu Manuals

Overview, Product

Single-Phase Induction Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

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. (The power supply to the electromagnetic brake is maintained and the brake is released.)

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

[•] The values correspond to the specification of a stand-alone motor.

Permissible Torque

3RK15GCM-□

●60 Hz

● 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 max. 30% less, depending on the load.

1.5 1.8

KII Series

●50 Hz Unit: N·m Speed r/min 300 250 200 120 100 83 60 50 41 30 25 20 16.6 15 12.5 10 8.3 5 4.1 Product Name 75 90 100 120 150 180 250 300 360 Gear Ratio 5 6 7.5 9 12.5 15 18 25 30 36 50 60

6 W

Unit: N·m

4.7 5.6

7.0 8.4

9.4 10

10 10 10

10 10

2.5 2.8 3.4

15 W

25 W

40 W

60 W

90 W

High-Efficiency

KIIS Series

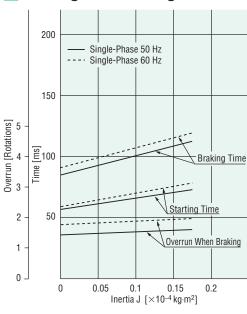
60 W

100 W

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	5
Froduct Name	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
3RK15UCM-□		0.41	0.49	0.61	0.73	1.0	1.2	1.5	2.0	2.3	2.8	3.9	4.6	5.8	7.0	7.7	9.3	10	10	10	10	10

Starting and Braking Characteristics (Reference Values - Motor only)

0.49 | 0.59 | 0.74 | 0.88 | 1.2 |



Permissible Radial Load and Permissible Axial Load

→ Page C-16

Permissible Inertia J of Combination Types

→ Page C-18

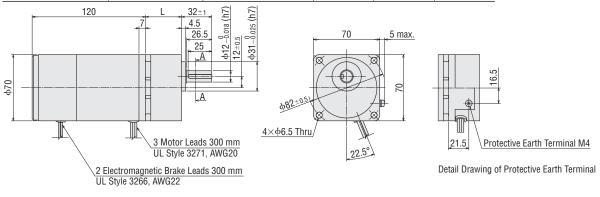
Dimensions Unit = mm

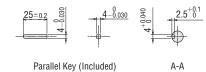
■ Installation screws are included with the parallel shaft combination type. Dimensions for installation screws → Page C-170

Lead Wire Type

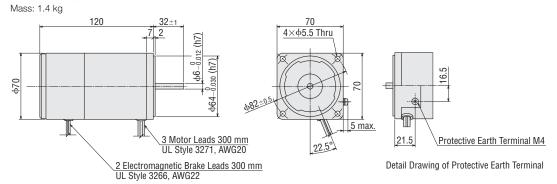
◇Parallel Shaft Combination Type

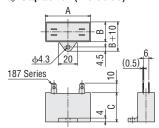
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
ADM TELICAL -	2DK1 FCV LICA		5~25	38	_
3RK15UCM-□ 3RK15GCM-□	3RK15GV-UCM 3RK15GV-GCM	3GV□B	30~120	43	2.0
			150~360	48	





3RK15A-UCM 3RK15A-GCM





						Unit: mm
Product Na	ıme	Capacitor	۸	D	C	Mass
Parallel Shaft Combination Type	Round Shaft Type	Product Name	A	Б	U	g
3RK15GCM-□	3RK15A-GCM	CH15BFAUL	38	21	31	37
3RK15UCM-□	3RK15A-UCM	CH13BFAUL	38	19	29	32

A capacitor cap is included.

Overview, Product Series

Single-Phase Induction Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

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

KII Series

25 W

□80 mm

Parallel Shaft Combination Type, Round Shaft Type



6 W

15 W

25 W

40 W

60 W

90 W

High-Efficiency KIIS Series

60 W

100 W

Specifications – 30 Minutes Rating

CE

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitance	Overheat Protection Device
Lead Wire Type	W	VAC	Hz	Α	mN⋅m	mN⋅m	r/min	μF	
4RK25GCM-□	25	Single-Phase 220	50	0.24	170	180	1330	2.0	
4RK25A-GCM	25	Single-Phase 230	50	0.25	190	100	1330	2.0	ТР
4RK25UCM-□	25	Single-Phase 220	60	0.25	160	145	1650	2.0	17
4RK25A-UCM	25	Single-Phase 230		0.26	180	145	1650	2.0	

The values in the table are characteristics for the motor only.

Electromagnetic Brake (Power Off Activated Type)

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type	Voltage	Frequency	Current	Power Consumption	Static Friction Torque
Lead Wire Type	VAC	Hz	Α	W	mN·m
4RK25GCM-□	Single-Phase 220	50	0.05	7	100
4RK25A-GCM	Single-Phase 230	30	0.05	,	100
4RK25UCM-□	Single-Phase 220	60	0.05	7	100
4RK25A-UCM	Single-Phase 230	00	0.00	,	100

The values correspond to the specification of a stand-alone motor.

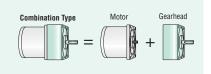
Product Line

Combination Type

Motor and gearhead are delivered pre-assembled.

The combination of motors and gearheads can be changed, and they are also available separately.

In addition, the gearhead can be removed and the assembly position can be changed in 90° increments.



For the single-phase 100 VAC, 110/115 VAC models and single-phase 200 VAC models, please contact the nearest Oriental Motor sales

Parallel Shaft Combination Type Price includes motor and gearhead.

Product Name	Gear Ratio	List Price
4RK25GCM-□	5, 6, 7. 5, 9, 12 . 5, 15, 18	€190.00
	25, 30, 36	€194.00
	50, 60, 75, 90, 100, 120, 150, 180	€200.00
	250, 300, 360	€236.00
4RK25UCM-□	5, 6, 7. 5, 9, 12 . 5, 15, 18	€190.00
	25, 30, 36	€194.00
TRRZJUCM-	50, 60, 75, 90, 100, 120, 150, 180	€200.00
	250, 300, 360	€236.00

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

Round Shaft Type

Product Name	List Price
4RK25A-GCM	€141.00
4RK25A-UCM	€141.00

The following items are included with 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. (The power supply to the electromagnetic brake is maintained and the brake is released.)

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

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 max. 30% less, depending on the load.

●50 Hz

Unit: N·m Overview, Product 4.1 Series

Speed r/min 300 250 200 120 83 60 50 30 25 20 16.6 15 10 8.3 6 5 Product Name Gear Ratio 5 6 9 12.5 15 18 25 30 36 50 60 75 90 100 120 150 180 250 300 360 4RK25GCM-□ 0.81 0.97 1.2 1.5 2.0 2.4 2.9 4.1 4.6 5.6 7.7 9.3 11.6 13.9 15.5 16 16 16 16 16

●60 Hz																					U	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	7.2	6	5
Floudet Name	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
4RK25UCM-□		0.65	0.78	0.98	1.2	1.6	2.0	2.3	3.3	3.7	4.5	6.2	7.5	9.4	11.2	12.5	15.0	16	16	16	16	16

Single-Phase Induction

Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant

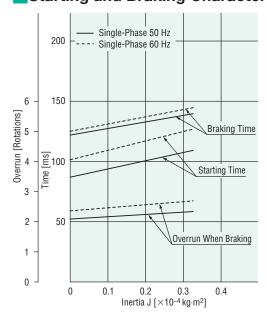
Motors

Brake Pack

Accessories

Installation

Starting and Braking Characteristics (Reference Values - Motor only)



Permissible Radial Load and Permissible **Axial Load**

→ Page C-16

Permissible Inertia J of Combination **Types**

→ Page C-18

15 W

25 W

40 W

60 W

90 W

High-Efficiency KIIS Series

60 W

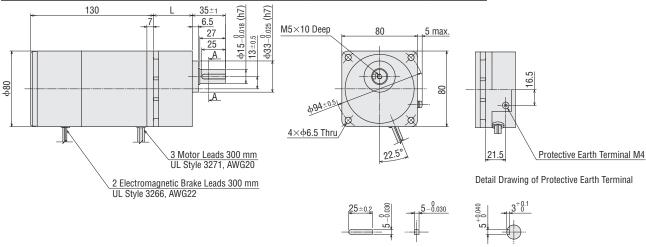
100 W

Dimensions Unit = mm

■ Installation screws are included with the parallel shaft combination type. Dimensions for installation screws → Page C-170

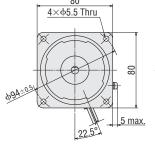
Lead Wire Type

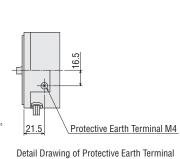
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
4DV05UCM □	ADKO ECVATIONA		5~25	41	
4RK25UCM-□ 4RK25GCM-□	4RK25GV-UCM 4RK25GV-GCM	4GV□B	30~120	46	3.05
TRR250CMI-	4111230 4 00111		150~360	51	

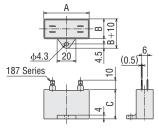


4RK25A-UCM, 4RK25A-GCM

Mass: 2.1 kg 130 0.030 (h7) 25 φ80 3 Motor Leads 300 mm UL Style 3271, AWG20 2 Electromagnetic Brake Leads 300 mm UL Style 3266, AWG22







Unit: mm Product Name Capacitor Mass С В Α Parallel Shaft Combination Type Round Shaft Type **Product Name** g 4RK25GCM-□ 4RK25A-GCM CH20BFAUL 48 19 29 36 4RK25UCM-4RK25A-UCM CH20BFAUL 48 19 29 36

Parallel Key (Included)

A capacitor cap is included.

KII Series

40 W

□90 mm

Parallel Shaft Combination Type, Round Shaft Type



Overview, Product

Single-Phase Induction Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

Installation

Series

Cable Type

Specifications – 30 Minutes Rating

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type		Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitance	Overheat Protection Device
Terminal Box Type	Cable Type	W	VAC	Hz	Α	mN·m	mN·m	r/min	μF	DOVIGO
5RK40GCMT2-□	5RK40GCM-□	40	Single-Phase 220	50	0.37	320	290	1330	3.5	
5RK40A-GCMT2	5RK40A-GCM	40	Single-Phase 230	30	0.37	320	290	1330	3.5	TP
5RK40UCMT2-□	5RK40UCM-□	40	Single-Phase 220	60	0.36	295	240	1640	3.0	1 11
5RK40A-UCMT2	5RK40A-UCM	40	Single-Phase 230	60	0.36	320	240	1640	3.0	

The values in the table are characteristics for the motor only.

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

Electromagnetic Brake (Power Off Activated Type)

Upper Level: Parallel S	et Name Shaft Combination Type ound Shaft Type	Voltage	Frequency	Current	Power Consumption	Static Friction Torque	
Terminal Box Type	Cable Type	VAC	Hz	Α	W	mN⋅m	
5RK40GCMT2-□	5RK40GCM-□	Single-phase 220	50	0.04	6	200	
5RK40A-GCMT2	5RK40A-GCM	Single-Phase 230	30		0	200	
5RK40UCMT2-□	5RK40UCM-□	Single-Phase 220	60	0.04	6	200	
5RK40A-UCMT2	5RK40A-UCM	Single-Phase 230	00	0.04	0	200	

The values correspond to the specification of a stand-alone motor.

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. (The power supply to the electromagnetic brake is maintained and the brake is released.)

15 W

25 W

40 W

60 W

90 W

Product Line

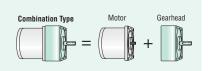
Combination Type

Motor and gearhead are delivered pre-assembled.

The combination of motors and gearheads can be changed, and they are also available separately.

In addition, the gearhead can be removed and the assembly position can be changed in 90° increments.

For the single-phase 100 VAC, 110/115 VAC models and single-phase 200 VAC models, please contact the nearest Oriental Motor sales



Parallel Shaft Combination Type Price includes motor and gearhead.

*	/ 1	
Product Name	Gear Ratio	List Price
	5, 6, 7. 5, 9, 12.5, 15, 18	€239.00
5RK40GCMT2-□	25, 30, 36	€244.00
SKK40GCM12-	50, 60, 75, 90, 100, 120, 150, 180	€249.00
	250, 300	€310.00
	5, 6, 7. 5, 9, 12.5, 15, 18	€239.00
5RK40UCMT2-□	25, 30, 36	€244.00
SKK4UUCM12-	50, 60, 75, 90, 100, 120, 150, 180	€249.00
	250, 300	€310.00

The following items are included with each product. Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating

List Price

€181.00

€181.00

Product Name	Gear Ratio	List Price
5RK40GCM-□	5, 6, 7. 5, 9, 12 . 5, 15, 18	€222.00
	25, 30, 36	€227.00
	50, 60, 75, 90, 100, 120, 150, 180	€232.00
	250, 300	€293.00
5RK40UCM-	5, 6, 7. 5, 9, 12 . 5, 15, 18	€222.00
	25, 30, 36	€227.00
	50, 60, 75, 90, 100, 120, 150, 180	€232.00
	250. 300	€293.00

High-Efficiency KIIS Series

60 W

100 W

Product Name	List Price
5RK40A-GCM	€164.00
5RK40A-UCM	€164.00

Permissible Torque

The following items are included with each product.

Motor, Capacitor, Capacitor Cap, Operating Manual

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 max. 30% less, depending on the load.

●50 Hz

Manual

Round Shaft Type

Product Name

5RK40A-GCMT2

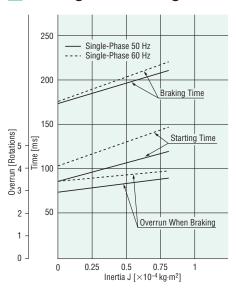
5RK40A-UCMT2

Unit: N⋅m Speed 200 120 100 41 16.6 10 6 5 300 250 166 83 60 50 30 25 20 15 12.5 8.3 Product Name r/min 90 100 120 150 180 250 300 Gear Ratio 5 6 7.5 9 12.5 15 18 25 30 36 50 60 **75** 5RK40GCM₋-1.6 2.3 3.3 3.9 9.0 12.5 15.0 18.7 22.4 24.9 28.2 30 30 1.3 2.0 4.7 6.2 7.5 30

00 HZ																				U	IIII: IN·III
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
5RK40UCM		1.1	1.3	1.6	1.9	2.7	3.2	3.9	5.2	6.2	7.4	10.3	12.4	15.5	18.6	20.6	23.3	29.2	30	30	30

[■] A code (T2) indicating the terminal box type is specified where the box □ is located in the product name. A number indicating the gear ratio is specified where the box \square is located in the product name.

Starting and Braking Characteristics (Reference Values - Motor only)



Permissible Radial Load and Permissible **Axial Load**

Permissible Inertia J of Combination **Types**

→ Page C-18

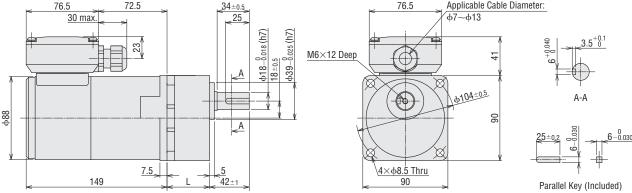
→ Page C-16

Dimensions Unit = mm

■ Installation screws are included with the parallel shaft combination type. Dimensions for installation screws → Page C-170 The terminal box cable outlet can be rotated and affixed in 4 possible directions. Details about terminal boxes → Page C-169

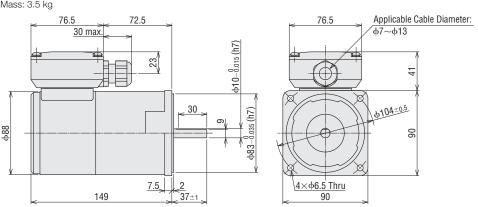
Terminal Box Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg	
5RK40UCMT2-□	5RK40GV-UCMT2		5~18	45		
5RK40GCMT2-	5RK40GV-0CMT2	5GV□B	25~100	58	5.0	
JKK-100GM12	31114007 007112		120~300	64		
76.5 30 max.	72.5	34±0.5 25 (Z4) \$1000-1 1000-1 MI	16×12 Deep	76.5	Applicable Cal	T



5RK40A-UCMT2, 5RK40A-GCMT2

Mass: 3.5 kg



A number indicating the gear ratio is specified where the box
is located in the product name.

Overview, Product Series

Single-Phase Induction Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

Cable Type

◇Parallel Shaft Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
EDV 40UCM	EDIC 40CV LICA		5~18	45	
5RK40UCM-□ 5RK40GCM-□	5RK40GV-UCM 5RK40GV-GCM	5GV□B	25~100	58	4.7
JKK-100CMI-	JRR400 V OCM		120~300	64	

6 W

15 W

25 W

40 W

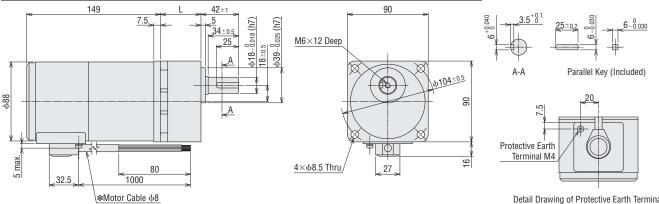
60 W

90 W

High-Efficiency KIIS Series

60 W

100 W

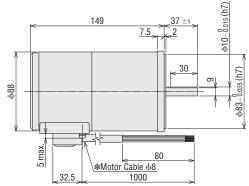


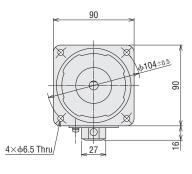
*Motor Cable Cores

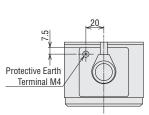
- 3 Motor Leads UL Style 3271, AWG20
- 2 Electromagnetic Brake Leads UL Style 3266, AWG22

5RK40A-UCM, 5RK40A-GCM

Mass: 3.2 kg



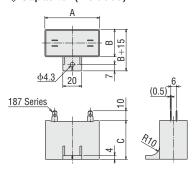




Detail Drawing of Protective Earth Terminal

Detail Drawing of Protective Earth Terminal

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



						OHIL: HIH
Product Na	Capacitor	Α	В	C	Mass	
Parallel Shaft Combination Type	Product Name	A	Б	U	g	
5RK40GCMT2-□ 5RK40GCM-□	5RK40A-GCMT2 5RK40A-GCM	CH35BFAUL	58	22	35	59
5RK40UCMT2-□ 5RK40UCM-□	5RK40A-UCMT2 5RK40A-UCM	CH30BFAUL	58	21	31	50

A capacitor cap is included.

KII Series

60 W

□90 mm

Parallel Shaft Combination Type, Round Shaft Type



Terminal Box Type Cable Type

Overview, Product Series

Single-Phase Induction

 ϵ

Motors Induction

Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

Installation

Specifications – 30 Minutes Rating

Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type		Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitance	Overheat Protection Device
Terminal Box Type	Cable Type	W	VAC	Hz	Α	mN·m	mN·m	r/min	μF	Dovido
5RK60GCMT2-□	5RK60GCM-□	60	Single-Phase 220	50	0.55	465	430	1340	5.0	
5RK60A-GCMT2	5RK60A-GCM	00	Single-Phase 230	30	0.57	490	430	1340	5.0	TP
5RK60UCMT2-	5RK60UCM-□	60	Single-Phase 220	60	0.56	485	350	1650	5.0	ir ir
5RK60A-UCMT2	5RK60A-UCM	60	Single-Phase 230	00	0.57	490	350	1650	5.0	

The values in the table are characteristics for the motor only.

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

Electromagnetic Brake (Power Off Activated Type)

Upper Level: Parallel S	t Name Shaft Combination Type Dund Shaft Type	Voltage	Frequency	Current	Power Consumption	Static Friction Torque	
Terminal Box Type	31 31			Α	W	mN·m	
5RK60GCMT2-□				0.04	6	500	
5RK60A-GCMT2	5RK60UCMT2-□ 5RK60UCM-□		50	0.04	0	300	
5RK60UCMT2-□			60	0.04	6	500	
5RK60A-UCMT2	5RK60A-UCM	Single-Phase 230	00	0.04	0	300	

The values correspond to the specification of a stand-alone motor.

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. (The power supply to the electromagnetic brake is maintained and the brake is released.)

15 W

25 W

40 W

60 W

90 W

High-Efficiency KIIS Series

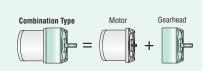
Product Line

Combination Type

Motor and gearhead are delivered pre-assembled.

The combination of motors and gearheads can be changed, and they are also available separately.

In addition, the gearhead can be removed and the assembly position can be changed in 90° increments.



For the single-phase 100 VAC, 110/115 VAC models and single-phase 200 VAC models, please contact the nearest Oriental Motor sales office.

Parallel Shaft Combination Type Price includes motor and gearhead.

-		
Product Name	Gear Ratio	List Price
	5, 6, 7. 5, 9, 12.5, 15, 18	€296.00
5RK60GCMT2-□	25, 30, 36, 50, 60, 75, 90, 100	€305.00
SKKOUGCM12-	120, 150, 180	€313.00
	250, 300	€339.00
	5, 6, 7. 5, 9, 12.5, 15, 18	€296.00
5RK60UCMT2-□	25, 30, 36, 50, 60, 75, 90, 100	€305.00
SKROUUCM12-	120, 150, 180	€313.00
	250, 300	€339.00

Product Name	Gear Ratio	List Price
	5, 6, 7. 5, 9, 12.5, 15, 18	€279.00
5RK60GCM-□	25, 30, 36, 50, 60, 75, 90, 100	€288.00
SKKOUGCM-	120, 150, 180	€296.00
	250, 300	€322.00
	5, 6, 7. 5, 9, 12.5, 15, 18	€279.00
5RK60UCM-□	25, 30, 36, 50, 60, 75, 90, 100	€288.00
SKKOUUCM-	120, 150, 180	€296.00
	250, 300	€322.00

The following items are included with each product.

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

Round Shaft Type

Product Name	List Price
5RK60A-GCMT2	€210.00
5RK60A-UCMT2	€210.00

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

100 W

60 W

Product Name	List Price
5RK60A-GCM	€193.00
5RK60A-UCM	€193.00

Permissible Torque

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 max. 30% less, depending on the load.

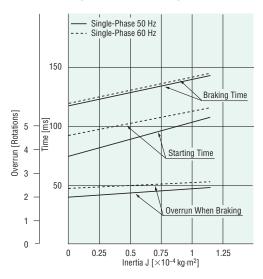
●50 Hz

●50 Hz																				ι	Jnit: 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
5RK60GCM□-□		1.9	2.3	2.9	3.5	4.8	5.8	7.0	9.2	11.1	13.3	18.5	22.2	27.7	30	30	30	30	30	30	30

●60 Hz																				ι	Jnit: N·m
Speed Product Name 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
5RK60UCM		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

lacktriangle A code (**T2**) indicating the terminal box type is specified where the box lacktriangle is located in the product name. A number indicating the gear ratio is specified where the box \square is located in the product name.

Starting and Braking Characteristics (Reference Values - Motor only)



Permissible Radial Load and Permissible **Axial Load**

Permissible Inertia J of Combination **Types**

→ Page C-18

→ Page C-16

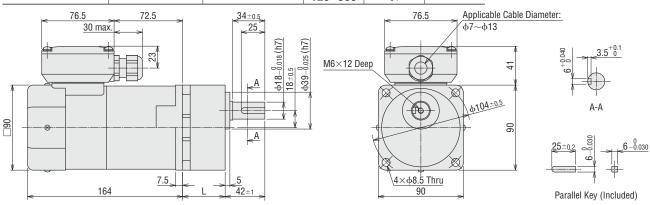
Dimensions Unit = mm

■ Installation screws are included with the parallel shaft combination type. Dimensions for installation screws → Page C-170 The terminal box cable outlet can be rotated and affixed in 4 possible directions. Details about terminal boxes → Page C-169

Terminal Box Type

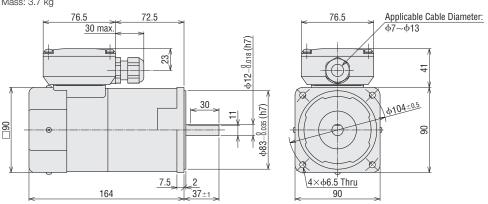
◇Parallel Shaft Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
5RK60UCMT2-□	5RK60GVH-UCMT2		5~18	45	
5RK60GCMT2-	5RK60GVH-GCMT2	5GVH□B	25~100	58	5.2
JKK000CM12-	SKKOOOVII OCMIZ		120~300	64	



5RK60A-UCMT2, 5RK60A-GCMT2

Mass: 3.7 kg



A number indicating the gear ratio is specified where the box
is located in the product name.

Product Series

Overview,

Single-Phase Induction Motors

Three-Phase Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

Cable Type

◇Parallel Shaft Combination Type

·	71.				
Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
EDV/OUGH □	FDK/OC)/ILLICM		5~18	45	
5RK60UCM-□ 5RK60GCM-□	5RK60GVH-UCM 5RK60GVH-GCM	5GVH□B	25~100	58	4.9
JKK000CMI-	SKKOOO VIII OCIVI		120~300	64	

6 W

15 W

25 W

40 W

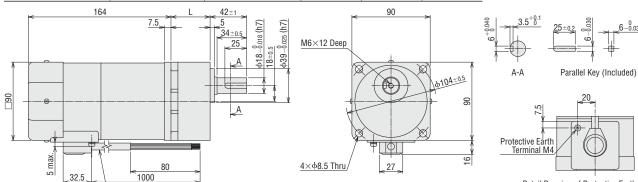
60 W

90 W

High-Efficiency
KIIS Series

60 W

100 W

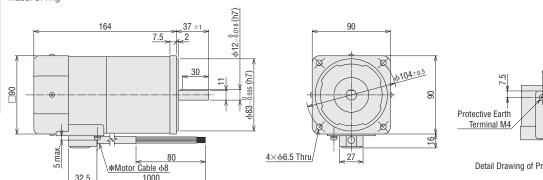


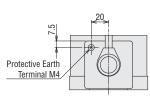
- *Motor Cable Cores 3 Motor Leads UL Style 3271, AWG20 2 Electromagnetic Brake Leads UL Style 3266, AWG22

*****Motor Cable φ8

5RK60A-UCM, 5RK60A-GCM

Mass: 3.4 kg

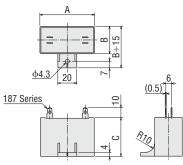




Detail Drawing of Protective Earth Terminal

Detail Drawing of Protective Earth Terminal

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



						Unit: mm
Product Na	ıme	Capacitor	Α	В	С	Mass
Parallel Shaft Combination Type	Round Shaft Type	Product Name	A	D	'	g
5RK60GCMT2-□ 5RK60GCM-□			58	29	41	93
5RK60UCMT2-□ 5RK60UCM-□	5RK60A-UCMT2 5RK60A-UCM	CH50BFAUL	58	29	41	93

A capacitor cap is included.

KII Series

90 W

□90 mm

Parallel Shaft Combination Type, Round Shaft Type





Terminal Box Type

Cable Type

Specifications - 30 Minutes Rating

Upper Level: Parallel S	t Name Haft Combination Type ound Shaft Type	Output Power	Voltage	Frequency	Current	Starting Torque	Rated Torque	Rated Speed	Capacitance	Overheat Protection Device
Terminal Box Type	Cable Type	W	VAC	Hz	A	mN·m	mN·m	r/min	μF	Device
5RK90GCMT2-□	5RK90GCM-□	90	Single-Phase 220	50	0.77	655	710	1220	6.0	
5RK90A-GCMT2	5RK90A-GCM	90	Single-Phase 230	30	0.78	720	710	1220	0.0	TP
5RK90UCMT2-□	5RK90UCM-□	90	Single-Phase 220	- 60	0.76	670	550	1570	6.0	1 15
5RK90A-UCMT2	5RK90A-UCM	90	Single-Phase 230	ן טט	0.77	730	550	1570	0.0	

The values in the table are characteristics for the motor only.

Electromagnetic Brake (Power Off Activated Type)

Upper Level: Parallel S	Product Name Upper Level: Parallel Shaft Combination Type Lower Level: Round Shaft Type			Current	Power Consumption	Static Friction Torque
Terminal Box Type	Cable Type	VAC	Hz	Α	W	mN⋅m
5RK90GCMT2-□	5RK90GCM-□	Single-Phase 220	50	0.04	6	500
5RK90A-GCMT2	5RK90A-GCM	Single-Phase 230	30	0.04	0	300
5RK90UCMT2-□	5RK90UCM-□	Single-Phase 220	60	0.04	6	500
5RK90A-UCMT2	5RK90A-UCM	Single-Phase 230	00	0.04	0	300

The values correspond to the specification of a stand-alone motor.

Overview, Product Series

 ϵ

Single-Phase Induction

Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant

Motors

Brake Pack

Accessories

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. (The power supply to the electromagnetic brake is maintained and the brake is released.)

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

Product Line

Combination Type

6 W

15 W

25 W

40 W

60 W

90 W

High-Efficiency KIIS Series

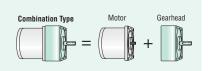
60 W

100 W

Motor and gearhead are delivered pre-assembled.

The combination of motors and gearheads can be changed, and they are also available separately.

In addition, the gearhead can be removed and the assembly position can be changed in 90° increments.



For the single-phase 100 VAC, 110/115 VAC models and single-phase 200 VAC models, please contact the nearest Oriental Motor sales

Parallel Shaft Combination Type Price includes motor and gearhead.

Product Name	Gear Ratio	List Price		
	5, 6, 7. 5, 9, 12.5, 15, 18	€310.00		
5RK90GCMT2-□	25, 30, 36, 50, 60	€326.00		
	7 5, 90, 100, 120, 150, 180	€333.00		
	5, 6, 7. 5, 9, 12.5, 15, 18	€310.00		
5RK90UCMT2-□	25, 30, 36, 50, 60	€326.00		
	<i>7</i> 5, 90, 100, 120, 150, 180	€333.00		

	le	Type
Pro	duc	t Name

•		
Product Name	Gear Ratio	List Price
	5, 6, 7. 5, 9, 12 . 5, 15, 18	€293.00
5RK90GCM-□	25, 30, 36, 50, 60	€309.00
	75 , 90 , 100, 120, 150, 180	€316.00
	5, 6, 7. 5, 9, 12 . 5, 15, 18	€293.00
5RK90UCM-□	25, 30, 36, 50, 60	€309.00
	75, 90, 100, 120, 150, 180	€316.00

The following items are included with each product. Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating

Round Shaft Type

Product Name	List Price
5RK90A-GCMT2	€223.00
5RK90A-UCMT2	€223.00

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

Product Name	List Price
5RK90A-GCM	€206.00
5RK90A-UCM	€206.00

Permissible Torque

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 max. 30% less, depending on the load.

●50 Hz Unit: N·m

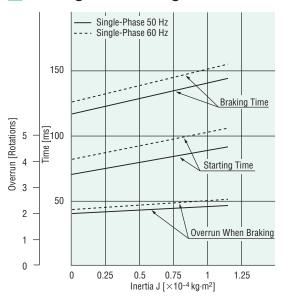
Product Name	Speed r/min	300	250	200	166	120	100	83	60	50	41	30	25	20	16.6	15	12.5	10	8.3
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5RK90GCM□-□		3.2	3.8	4.8	5.8	8.0	9.6	11.0	15.3	18.3	22.0	30.5	36.6	40	40	40	40	40	40

●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
	Gear Ratio	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5RK90UCM		2.5	3.0	3.7	4.5	6.2	7.4	8.5	11.8	14.2	17.0	23.7	28.4	33.4	40	40	40	40	40

ullet A code (T2) indicating the terminal box type is specified where the box lloon is located in the product name. A number indicating the gear ratio is specified where the box \square is located in the product name.

Starting and Braking Characteristics (Reference Values - Motor only)



Permissible Radial Load and Permissible **Axial Load**

Permissible Inertia J of Combination **Types**

→ Page C-16 → Page C-18

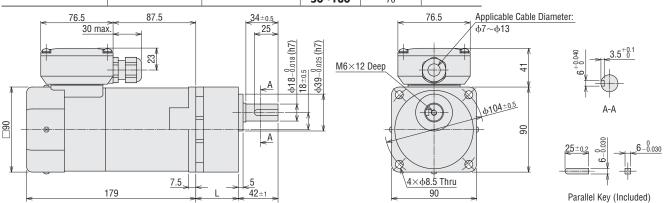
Dimensions Unit = mm

■ Installation screws are included with the parallel shaft combination type. Dimensions for installation screws → Page C-170 The terminal box cable outlet can be rotated and affixed in 4 possible directions. Details about terminal boxes → Page C-169

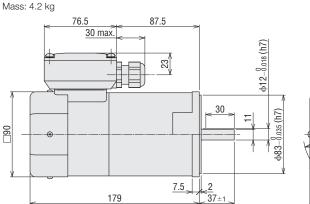
Terminal Box Type

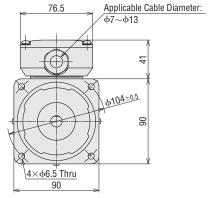
◇Parallel Shaft Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
EDVOCUCATO -	EDMOOCAND LICAATO		5~15	45	
5RK90UCMT2-□ 5RK90GCMT2-□	5RK90GVR-UCMT2 5RK90GVR-GCMT2	5GVR□B	18~36	58	5.7
JRR900CM12-	JKK70GVK-GCM12		50~180	70	



5RK90A-UCMT2, 5RK90A-GCMT2





■ A code (T2) indicating the terminal box type is specified where the box
is located in the product name. A number indicating the gear ratio is specified where the box \square is located in the product name

Overview, Product Series

Single-Phase Induction Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight, Dust-Resistant Motors

Brake Pack

Accessories

Cable Type

6 W

15 W

25 W

40 W

60 W

90 W

60 W

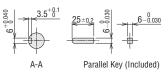
100 W

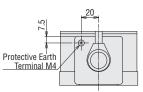
◇Parallel Shaft Combination Type

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	L	Mass kg
EDICOCHICA	EDICOCCY D LICAL		5∼15	45	
5RK90UCM-□ 5RK90GCM-□	5RK90GVR-UCM 5RK90GVR-GCM	5GVR□B	18~36	58	5.4
	SKK700 VK OCW		50~180	70	

_A

90 M6×12 Deep φ104±0.5 <u>4×φ8.5 Thru</u> 27





Detail Drawing of Protective Earth Terminal

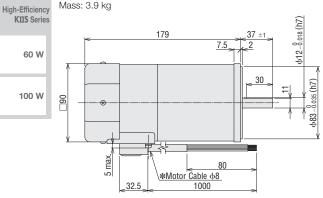
- *Motor Cable Cores 3 Motor Leads UL Style 3271, AWG20 2 Electromagnetic Brake Leads UL Style 3266, AWG22

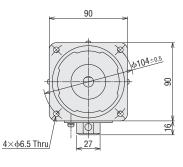
*****Motor Cable φ8

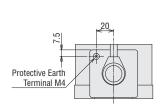
1000

5RK90A-UCM, 5RK90A-GCM

Mass: 3.9 kg

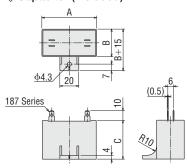






Detail Drawing of Protective Earth Terminal

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



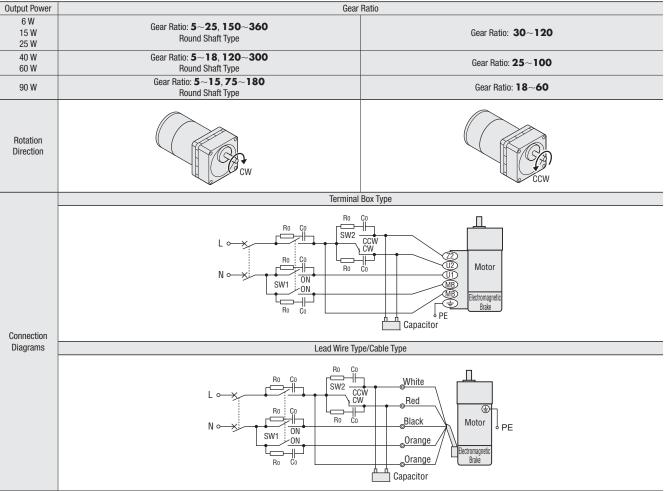
						Unit: mm
Product Na	ame	Capacitor	A	В	С	Mass
Parallel Shaft Combination Type	Round Shaft Type	Product Name	A	Ь		g
5RK90GCMT2-□	5RK90A-GCMT2	CH60BFAUL	58	29	41	92
5RK90GCM-□	5RK90A-GCM	CHOODIAGE	30	25	41	32
5RK90UCMT2-□	5RK90A-UCMT2	CH60BFAUL	58	29	41	92
5RK90UCM-□	5RK90A-UCM	CHOODITIOE	00			02

A capacitor cap is included.

Connection Diagrams

- 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.
- With the parallel shaft combination type, the rotation direction varies according to the gear ratio. When the motor is connected as shown in the "Connection Diagrams," it rotates as shown in the figure below.

Parallel Shaft Combination Type/Round Shaft Type



SW1 operates both motor operation/stop and electromagnetic brake activation. (Interlocking) The electromagnetic brake will be released and the motor will operate when SW1 is switched to ON. When SW1 is switched to OFF, the motor stops and the electromagnetic brake engages.

When the electromagnetic brake is released when the motor is in a stopped state, SW1 is not interlocked and only the orange lead wire is ON.

Contact Capacity of SW1 and SW2

Run/Stop

Model	Input Specification Single-Phase 220/230 VAC
2RK 3RK 4RK	250 VAC 1.5 A or more
5RK	250 VAC 5 A or more

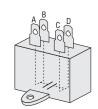
To protect the contact, connect a CR circuit (RoCo) for surge suppression as shown on the connection diagram. Ro=5 \sim 200 Ω Co=0.1 \sim 0.2 μ F 250 WV

Available from Oriental Motor as an accessory. Accessory Product Name EPCR1201-2 (Sold separately) → Page C-163

How to Connect a Capacitor

The capacitor has 4 terminals: terminal A is connected internally to terminal B, and terminal C is connected internally to terminal D, as shown in the illustration.

Electrically, this creates 2 terminals.



Inner Wiring Diagram for 4-Terminal Capacitor

Overview, Product Series

Single-Phase Induction Motors

Three-Phase Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Motors

Watertight. Dust-Resistant Motors

Brake Pack

Accessories