(RoHS)
Induction Motors

60 W

Frame Size:

□90 mm





(Gearhead sold separately)

Right-angle gearheads (hollow shaft or solid shaft) can be combined.

Right-Angle Gearheads → Page 108





■Specifications – Continuous Rating (RoHS)



			_							
Upper Model Name: F	Model Upper Model Name: Pinion Shaft Type Lower Model Name (): Round Shaft Type		Output Voltage Power		Current	Starting Torque	Rated Torque	Rated Speed	Capacitor	
Lead Wire Type Dimension ①	Terminal Box Type Dimension ②	W	VAC	Hz	A	mN∙m	mN∙m	r/min	μF	
5IK60GE-AW2J	5IK60GE-AW2TJ	60	Cinalo Dhoos 100	50	1.20	320	490	1200	20	
(5IK60A-AW2J)	(5IK60A-AW2TJ)	60	Single-Phase 100	60	1.19	320	405	1450	20	
5IK60GE-AW2U	60GE-AW2U 5IK60GE-AW2TU	60	Single-Phase 110		1.09	220	405	1450	10	
(5IK60A-AW2U)	(5IK60A-AW2TU)	00	Single-Phase 115	60	1.10	320	405	1450	18	
5IK60GE-CW2J		60	Single-Phase 200	50	0.57	200	490	1200	F 0	
(5IK60A-CW2J)				60	0.65	320	405	1450	5.0	
			Single-Phase 220	50	0.55		490	1200		
≤ 5IK60GE-CW2E	5IK60GE-CW2TE (5IK60A-CW2TE)	60		60	0.54	200	405	1450	4.0	
(5IK60A-CW2E)		60	O' I - Di 000	50	0.57	320	490	1200		
			Single-Phase 230	60	0.54		405	1450		
			Three Dhace 200	50	0.50	600	450	1300		
5IK60GE-SW2	5IK60GE-SW2T	60	Three-Phase 200	60	0.43	500	380	1550		
(5IK60A-SW2)	(5IK60A-SW2T)	00	Three-Phase 220	60	0.45	500	380	1600	_	
·			Three-Phase 230	60	0.46	500	380	1600		
TP –	5IK60GE-UT4F* (5IK60A-UT4F*)	60	Three-Phase 400	50	0.25	550	470	1250	_	

[●] The J, U and E at the end of the model name indicate that the unit includes a capacitor. These letters are not listed on the motor nameplate.

Note:

A three-phase 400 VAC motor cannot be used with an inverter. Using them together may lead to deterioration of the motor wiring insulation and damage the products.

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

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

Product Line

● Motor (RoHS)

Type	N	lodel					
Type	Pinion Shaft Type	Round Shaft Type					
	5IK60GE-AW2J	5IK60A-AW2J					
	5IK60GE-AW2U	5IK60A-AW2U					
Lead Wire	5IK60GE-CW2J	5IK60A-CW2J					
	5IK60GE-CW2E	5IK60A-CW2E					
	5IK60GE-SW2	5IK60A-SW2					
	5IK60GE-AW2TJ	5IK60A-AW2TJ					
	5IK60GE-AW2TU	5IK60A-AW2TU					
Terminal Box	5IK60GE-CW2TJ	5IK60A-CW2TJ					
Terrilliai box	5IK60GE-CW2TE	5IK60A-CW2TE					
	5IK60GE-SW2T	5IK60A-SW2T					
	5IK60GE-UT4F	5IK60A-UT4F					

• Gearhead/Right-Angle Gearhead (Sold Separately) (RoHS)

Type	Gearhead Model	Gear Ratio						
туре	deameau wodei	deal hallo						
Long Life/ Parallel Shaft	5GE□S	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						
	5GE10XS (Decima	l gearhead)						
Right-Angle/ Hollow Shaft	5GE□RH	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						
Right-Angle/ Solid Shaft	5GE□RA	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180						

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

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

^{*} Conforms to EN/IEC standards only. Bears the CE Marking.

Gearmotor – Torque Table

- •Gearheads and decimal gearheads are sold separately.
- ●Enter the code that represents the terminal box type "T" in the box (□) within the model name.
- ■Enter the gear ratio in the box (□) within the model name.
- •A colored background indicates gear shaft rotation in the same direction as the motor shaft, while the others rotate in the opposite direction.
- The speed is calculated by dividing the motor's synchronous speed (50 Hz: 1500 r/min, 60 Hz: 1800 r/min) by the gear ratio.
- The actual speed is 2 20% less than the displayed value, depending on the size of the load.
- ■To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead (gear ratio: 10) between the gearhead and the motor. In that case, the permissible torque is 20 N·m.

<>50 Hz																				Uni	t = N·m
Model	Speed r/min	500	416	300	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3
Motor/ Gearhead	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5IK60GE-AW2_J 5IK60GE-CW2_J 5IK60GE-CW2_E	5GE□S	1.2	1.4	2.0	2.4	3.0	3.6	4.5	5.4	6.4	8.1	9.7	11.6	16.2	19.4	20	20	20	20	20	20
5IK60GE-SW2■	5GE□S	1.1	1.3	1.8	2.2	2.7	3.3	4.1	4.9	5.9	7.4	8.9	10.7	14.9	17.8	19.9	20	20	20	20	20
5IK60GE-UT4F	5GE□S	1.1	1.4	1.9	2.3	2.9	3.4	4.3	5.1	6.2	7.8	9.3	11	16	19	20	20	20	20	20	20

♦60 Hz																				Uni	it = N·m
Model	Speed r/min	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
Motor/ Gearhead	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
5IK60GE-AW2_J 5IK60GE-AW2_U 5IK60GE-CW2_J 5IK60GE-CW2_E	5GE □S	0.98	1.2	1.6	2.0	2.5	3.0	3.7	4.4	5.3	6.7	8.0	9.6	13.4	16.0	17.9	20	20	20	20	20
5IK60GE-SW2	/ 5GE□S	0.92	1.1	1.5	1.8	2.3	2.8	3.5	4.2	5.0	6.3	7.5	9.0	12.5	15.0	16.8	20	20	20	20	20

■Permissible Overhung Load and Permissible Thrust Load

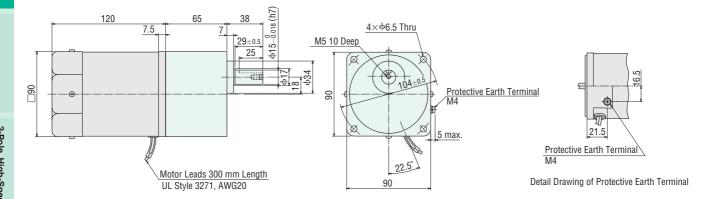
Motor (Round shaft type) → Page 107 Gearhead → Page 107

Permissible Load Inertia J for Gearhead

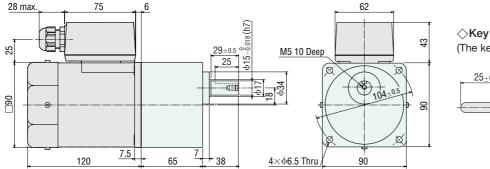
→ Page 107

■ Dimensions (Unit = mm)

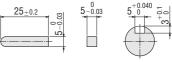
Mounting screws are included with gearheads.



Mass: Motor 2.8 kg Gearhead 1.5 kg



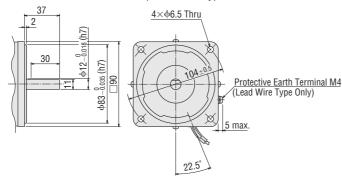
(The key is included with the gearhead)



• Use cable with a diameter of $\phi 6 \sim \phi 12$ mm.

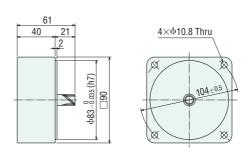
♦ Shaft Section of Round Shaft Type

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

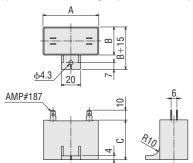


Can be connected to **GE** pinion shaft type. 5GE10XS

Mass: 0.6 kg



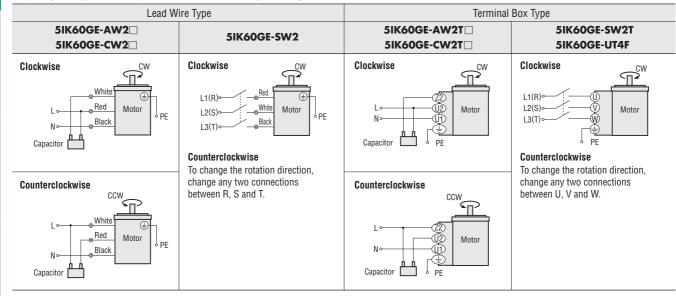
(Included with single-phase motors)



el Pinion Shaft Type : Round Shaft Type	Capacitor Model	Α	В	С	Mass (g)	Capacitor Cap
Terminal Box Type						
5IK60GE-AW2TJ (5IK60A-AW2TJ)	CH200CFAUL2	58	29	41	95	
5IK60GE-AW2TU (5IK60A-AW2TU)	CH180CFAUL2	58	29	41	95	Included
5IK60GE-CW2TJ (5IK60A-CW2TJ)	CH50BFAUL	58	29	41	85	iliciuded
K60GE-CW2E 5IK60GE-CW2TE (5IK60A-CW2TE)				37	70	
F :: ()	Terminal Box Type Terminal Box Type SIK60GE-AW2TJ SIK60A-AW2TJ SIK60A-AW2TU SIK60A-AW2TU SIK60A-CW2TJ SIK60GE-CW2TJ SIK60A-CW2TJ	Terminal Box Type Terminal Box Type SIK60GE-AW2TJ (SIK60A-AW2TJ) SIK60A-AW2TU) SIK60GE-CW2TJ (SIK60A-CW2TJ) SIK60GE-CW2TE SIK60GE-CW2TE CH40BEALU	Capacitor Model A	Capacitor A B	Capacitor Node Capacitor Node Node	Capacitor A B C Mass Model Sink60GE-AW2TJ CH200CFAUL2 58 29 41 95

Connection Diagrams

- The direction of motor rotation is as viewed from the shaft end of the motor. CW represents the clockwise direction, while CCW represents the counterclockwise direction.
- Connection diagrams are also valid for the equivalent round shaft type.
- Specify the type of the capacitor to be included by entering J, U or E in the box (□) within the model name.



PE: Protective Earth

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, motor may ignore reversing command or change its direction of rotation after some delay.