M9

15 W

(RoHS) **Power Off Activated Type Electromagnetic Brake Motors 40 W**

Output

Power

W

40

40

40

40

40

Voltage

VAC

Single-Phase 100

Single-Phase 110

Single-Phase 115

Single-Phase 200

Single-Phase 220

Single-Phase 220

Single-Phase 230

Three-Phase 200

Three-Phase 220

Three-Phase 230

Frequency

Hz

50

60

60

50

60

50

60

50

60

50

60

60

Current

A

0.85

1.04

0.81

0.40

0.51

0.40

0.43

0.38

0.43

0.32

0.30

0.30

0.31

Rating

30

minutes

30

minutes

30

minutes

30

minutes

Continuous

• 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. When the motor is approved under various safety standards, the model name on the nameplate is the approved model name (D): Contains a built-in thermal protector. If a motor overheats for any reason, the thermal protector is opened and the motor stops.

Frame Size: 90 mm

Model



Right-angle gearheads (hollow shaft or solid shaft) can be combined. Right-Angle Gearheads → Page 108



Starting

Torque

mN∙m

300

260

260

270

260

270

260

270

260

400

260

260

Rated Torque

mN∙m

315

270

270

315

260

315

260

315

260

300

260

260

Specifications

TP 5RK40GN-CW2MJ

TP 5RK40GN-CW2ME

TP 5IK40GN-SW2M

Motor (RoHS)

This type of motor does not contain a built-in simple brake mechanism.

Round Shaft Type

5RK40A-AW2MJ

5RK40A-AW2MU

5RK40A-CW2MJ

5RK40A-CW2ME

5IK40A-SW2M

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



Capacitor

μF

16

12

4.0

35

Rated Speed

r/min

1250

1450

1450

1250

1500

1250

1500

1250

1500

1300

1550

1600

25 W

M 06

When the motor temperature drops, the thermal protector closes and the motor restarts. Be sure to turn the motor off before inspecting. Electromagnetic Brake (Power Off Activated Type)

Motor Model	Voltage VAC	Frequency Hz	Current A	Input W	Holding Brake Torque mN•m		
5RK40GN-AW2MJ	Single Dhose 100	50	0.09	6	200		
5RK40A-AW2MJ	Single-Phase 100	60 0.09		0	200		
5RK40GN-AW2MU	Single-Phase 110	60	0.09	6	200		
5RK40A-AW2MU	Single-Phase 115	60	0.09	0	200		
	Cingle Dhose 200	50					
5RK40GN-CW2MJ 5RK40A-CW2MJ	Single-Phase 200	60	0.05	7	200		
JKR40A-CW2MJ	Single-Phase 220	50					
ERV ADONI OWOME	Single-Phase 220	60					
5RK40GN-CW2ME 5RK40A-CW2ME	Cingle Dhoos 220	50	0.05	7	200		
JKK+VA-CW ZME	Single-Phase 230	60					
	Single-Phase 200	50					
5IK40GN-SW2M	Single-Fliase 200	60	0.05	7	200		
5IK40A-SW2M	Single-Phase 220	60	0.05		200		
	Single-Phase 230	00					

Product Line

Motor (RoHS)

Model								
Pinion Shaft Type	Round Shaft Type							
5RK40GN-AW2MJ	5RK40A-AW2MJ							
5RK40GN-AW2MU	5RK40A-AW2MU							
5RK40GN-CW2MJ	5RK40A-CW2MJ							
5RK40GN-CW2ME	5RK40A-CW2ME							
5IK40GN-SW2M	5IK40A-SW2M							

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

Туре	Gearhead Model	Gear Ratio
Long Life/Low Noise/ Parallel Shaft	5GN□S	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36, 50, 60, 75, 90, 100, 120, 150, 180
	5GN10XS (Decima	al gearhead)
Right-Angle/ Hollow Shaft	5GN_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	5GN D 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 (\Box) within the model name.

High-Speed Type

10

Right-Angle Gearheads

Gearmotor – Torque Table

•Gearheads and decimal gearheads are sold separately.

•Enter the gear ratio in the box (\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 10 N·m.

⊘50 Hz																				Uni	it = 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
5RK40GN-AW2MJ 5RK40GN-CW2MJ 5RK40GN-CW2ME	∕ 5GN⊡S	0.77	0.92	1.3	1.5	1.9	2.3	3.2	3.8	4.6	5.7	6.9	8.3	10	10	10	10	10	10	10	10
5IK40GN-SW2M	/ 5GN□S	0.73	0.87	1.2	1.5	1.8	2.2	3.0	3.6	4.4	5.5	6.6	7.9	9.9	10	10	10	10	10	10	10
⊘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
5RK40GN-AW2MJ 5RK40GN-AW2MU	∕ 5GN⊡S	0.66	0.79	1.1	1.3	1.6	2.0	2.7	3.3	3.9	4.9	5.9	7.1	8.9	10	10	10	10	10	10	10

Permissible Overhung Load and Permissible Thrust Load

1.1 1.3 1.6 1.9 2.6 3.2 3.8 4.7 5.7 6.8 8.6 10 10 10 10 10 10

0.76

0.63

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

Permissible Load Inertia J for Gearhead

5GN_S

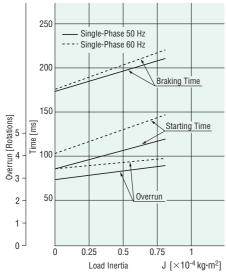
→ Page 107

5RK40GN-CW2MJ 5RK40GN-CW2ME

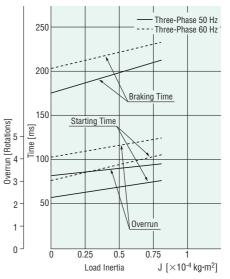
5IK40GN-SW2M

Starting and Braking Characteristics (Reference Values)

Single-Phase Motor



Three-Phase Motor



Dimensions (Unit = mm)

Mounting screws are included with gearheads.

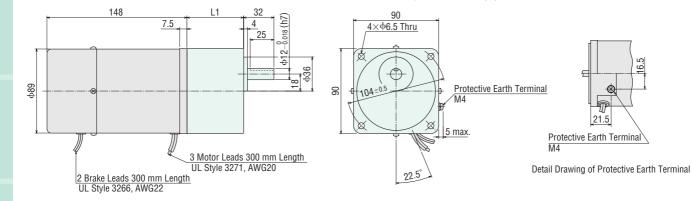
\bigcirc Motor/Gearhead

Mass: Motor 2.8 kg Gearhead 1.5 kg

Motor Model	Gearhead Model	Gear Ratio	L1
5RK40GN-AW2M	FONDS	3~18	42
5RK40GN-CW2M 5IK40GN-SW2M	5GN□S	25~180	60

• Specify the type of the capacitor to be included by entering **J**, **U** or **E** in the box () within the model name.

Enter the gear ratio in the box (\Box) within the model name.

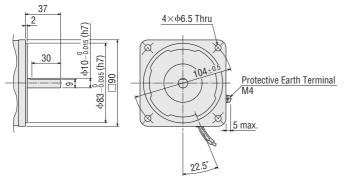


\diamondsuit Key and Key Slot

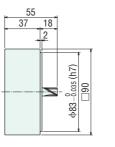
(The key is included with the gearhead)

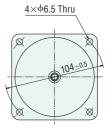
\diamondsuit Shaft Section of Round Shaft Type

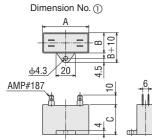
The mass and motor's dimensions (excluding the shaft section) are the same as those of the pinion shaft type.

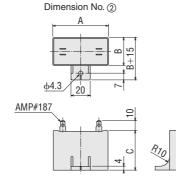


◇Decimal Gearhead Can be connected to GN pinion shaft type. 5GN10XS Mass: 0.6 kg









Model		Capacitor	А	В	C	Mass	Dimension	Capacitor
Pinion Shaft Type	Round Shaft Type	Model	A	D	U	(g)	No.	Сар
5RK40GN-AW2MJ	5RK40A-AW2MJ	CH160CFAUL2	58	23.5	37	75	2	
5RK40GN-AW2MU	5RK40A-AW2MU	CH120CFAUL2	58	22	35	60	1	Included
5RK40GN-CW2MJ	5RK40A-CW2MJ	CH40BFAUL	58	23.5	37	70	2	Included
5RK40GN-CW2ME	5RK40A-CW2ME	CH35BFAUL	58	22	35	55	1	

W 9

15 W

25 W

40 W

High-speed type

Torque Motors

Right-Angle Gearheads

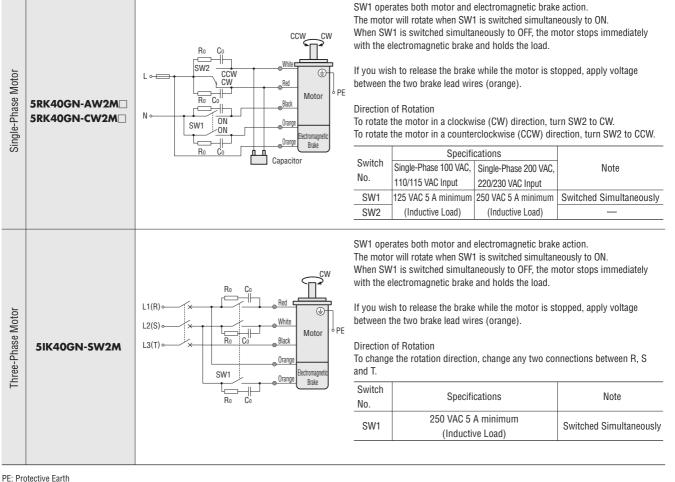
Brake Pack SB50W

Accessories

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.



• R₀ and C₀ indicate surge suppressor circuit. [R₀=5 \sim 200 Ω , C₀=0.1 \sim 0.2 μ F, 200 WV (400 WV)]

EPCR1201-2 is available as an optional surge suppressor. → Page 123