

# B AC Motors

## Reversible Motor 10W(□70mm)

# 10W

Reversible Motor  
10W(□70mm)

### Motor Specification

Model		Output	Voltage	Frequency	Poles	Duty	Starting Torque		Rated Load			Capacitor	
Lead Wire Type	Terminal Box Type						kgfcm	N.m	Speed	Current	Torque		
7RDG□-10G(-T): Gear Type Shaft 7RDD□-10(-T): D-Cut Type Shaft		W	V	Hz					r/min	A	kgfcm	N.m	μF / VAC
7RDGA-10G	7RDGA-10G-T	10	1φ110	60	4	30min.	0.83	0.083	1550	0.31	0.70	0.070	3.5 / 250
7RDGD-10G	7RDGD-10G-T	10	1φ220	60	4	30min.	1.00	0.100	1550	0.20	0.79	0.079	1.2 / 450
7RDGE-10G	7RDGE-10G-T	10	1φ220	50	4	30min.	0.86	0.086	1250	0.16	0.82	0.082	1.0 / 450
			1φ240				0.99	0.099		0.18	0.90	0.090	

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) All models contain a built-in thermal protector.

3) Gear Type Shaft is for attaching Gearbox and D-Cut Type Shaft is for using motor only.

### Max. Permissible Torque at Output Shaft of Gearbox

#### 60Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	
			r/min	600	500	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
7RDG□-10G	7GBK□BMH	kgfcm	2.0	2.4	3.9	4.9	5.9	8.2	9.8	11.8	14.8	17.8	19.3	26.9	32.2	40.3	48.3	50.0	50.0	50.0	50.0	50.0
		N.m	0.19	0.23	0.39	0.48	0.58	0.80	0.96	1.16	1.45	1.74	1.90	2.63	3.16	3.95	4.74	4.90	4.90	4.90	4.90	4.90

#### 50Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	
			r/min	500	416	250	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3
7RDG□-10G	7GBK□BMH	kgfcm	2.2	2.7	4.5	5.6	6.7	9.3	11.2	13.4	16.9	20.3	22.0	30.6	36.7	45.9	50.0	50.0	50.0	50.0	50.0	50.0
		N.m	0.22	0.26	0.44	0.55	0.66	0.92	1.10	1.32	1.65	1.98	2.16	3.00	3.60	4.50	4.90	4.90	4.90	4.90	4.90	4.90

1) Enter the phase & voltage code in the box (□) within the motor model name.

2) Enter the gear ratio in the box (□) within the Gearbox model name.

3) A colored background indicates gear shaft rotation in the same direction as the motor shaft; a white background indicates rotation in the opposite direction.

4) The rotating speed is calculated by dividing the motor's synchronous speed (50Hz: 1,500r/min, 60Hz: 1,800r/min) by the gear ratio. The actual speed is 2~20% less than the displayed value, depending on the size of the load.

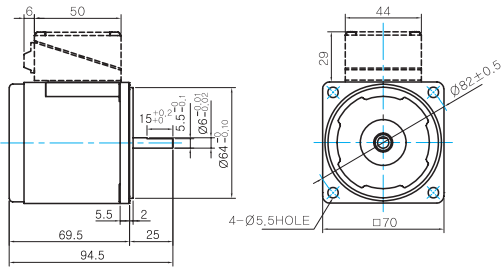
### Motor Images



## Dimensions

### MOTOR ONLY

- MOTOR MODEL: 7RDD□-10(-T) (NO FAN)



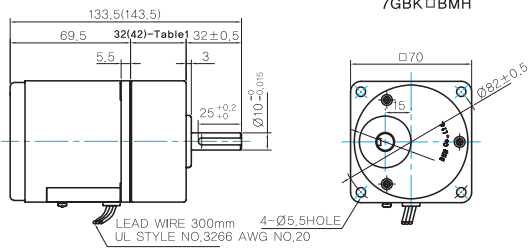
### MOTOR OUTPUT SHAFT

MODEL	SPEC
D-CUT TYPE	

## GEARED MOTOR

### G TYPE GEARBOX

- MOTOR MODEL: 7RDG□-10G (NO FAN)
- GEARBOX MODEL: 7GBK□BMH



### GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

### KEY SPEC

GEARBOX

### WEIGHT

PART	WEIGHT(Kg)	
MOTOR	0.84	
GEAR BOX	7GBK3BMH ~ 7GBK18BMH	0.36
	7GBK25BMH ~ 7GBK30BMH	0.44
	7GBK36MH ~ 7GBK180MH	0.5

### 32(42)-Table1

SIZE(mm)	GEAR RATIO
32	7GBK3BMH - 7GBK18BMH
42	7GBK25BMH - 7GBK180BMH

## Connection Diagrams

Lead Wire Type	Terminal Box Type						
	<table border="1"> <thead> <tr> <th>Code</th> <th>Contact Capacity</th> </tr> </thead> <tbody> <tr> <td>SW</td> <td>AC125V 5A min. or AC250V 5A min. (Inductive load)</td> </tr> <tr> <td>Ro, Co</td> <td>Ro=5-200Ω Co=0.1-0.2μF, 200WV (400WV)</td> </tr> </tbody> </table> <p>* Connect a CR circuit for surge suppression to protect the contact.</p>	Code	Contact Capacity	SW	AC125V 5A min. or AC250V 5A min. (Inductive load)	Ro, Co	Ro=5-200Ω Co=0.1-0.2μF, 200WV (400WV)
Code	Contact Capacity						
SW	AC125V 5A min. or AC250V 5A min. (Inductive load)						
Ro, Co	Ro=5-200Ω Co=0.1-0.2μF, 200WV (400WV)						

- 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.
- During operation it is available to change the rotating direction by turning the switch to CW or CCW.