

# B AC Motors

Reversible Motor 6W(□60mm)

**6W** Reversible Motor  
6W(□60mm)

## Motor Specification

Model		Output W	Voltage V	Frequency Hz	Poles	Duty	Starting Torque		Rated Load			Capacitor μF / VAC	
6RDG□-6G(-T): Gear Type Shaft 6RDD□-6(-T): D-Cut Type Shaft	6RDGA-6G-T 6RDGD-6G-T						kgfcm	N.m	Speed r/min	Current A	Torque kgfcm N.m		
Lead Wire Type	Terminal Box Type												
6RDGA-6G	6RDGA-6G-T	6	1φ110	60	4	30min.	0.60	0.060	1550	0.25	0.38	0.038	3.0 / 250
6RDGD-6G	6RDGD-6G-T	6	1φ220	60	4	30min.	0.62	0.062	1550	0.15	0.42	0.042	1.0 / 450
6RDGE-6G	6RDGE-6G-T	6	1φ220 1φ240	50	4	30min.	0.50 0.55	0.050 0.055	1200	0.10 0.11	0.47 0.50	0.047 0.050	0.7 / 450

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

2) This model is impedance protected type.

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	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180
			r/min	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12
6RDG□-6G	6GBD□MH	kgfcm	1.0	1.3	1.7	2.1	2.6	3.1	3.5	4.4	5.2	6.3	6.3	7.9	9.5	11.3	12.6	14.3	17.1	21.4	25.7	28.6	30.0	30.0	30.0
		N.m	0.10	0.12	0.17	0.20	0.26	0.31	0.34	0.43	0.51	0.61	0.62	0.77	0.93	1.11	1.23	1.40	1.68	2.10	2.52	2.80	2.94	2.94	2.94
6RDG□-6G	6GBD□MH	kgfcm	30.0	30.0																					
		N.m	2.94	2.94																					

### 50Hz

Motor Model	Gearbox Model	Gear Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180
			r/min	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12	10
6RDG□-6G	6GBD□MH	kgfcm	1.2	1.5	2.1	2.5	3.1	3.7	4.2	5.2	6.2	7.5	7.5	9.4	11.3	13.5	15.0	17.0	20.4	25.5	30.0	30.0	30.0	30.0	30.0
		N.m	0.12	0.15	0.20	0.24	0.31	0.37	0.41	0.51	0.61	0.73	0.74	0.92	1.10	1.32	1.47	1.67	2.00	2.50	2.94	2.94	2.94	2.94	2.94
6RDG□-6G	6GBD□MH	kgfcm	30.0	30.0																					
		N.m	2.94	2.94																					

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.

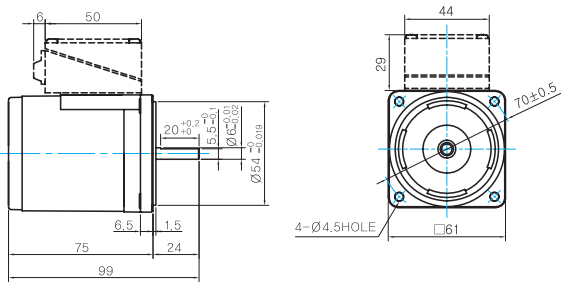
## Motor Images



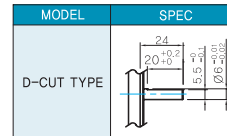
## Dimensions

### MOTOR ONLY

- MOTOR MODEL: 6RDD□-6(-T) (NO FAN)



### MOTOR OUTPUT SHAFT

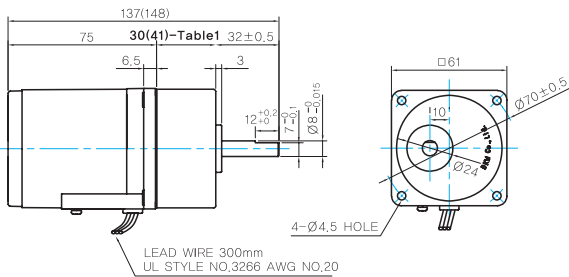


### GEARED MOTOR

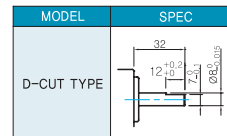
### G TYPE GEARBOX

- MOTOR MODEL: 6RDG□-6G (NO FAN)

- GEARBOX MODEL: 6GBD□MH



### GEARBOX OUTPUT SHAFT



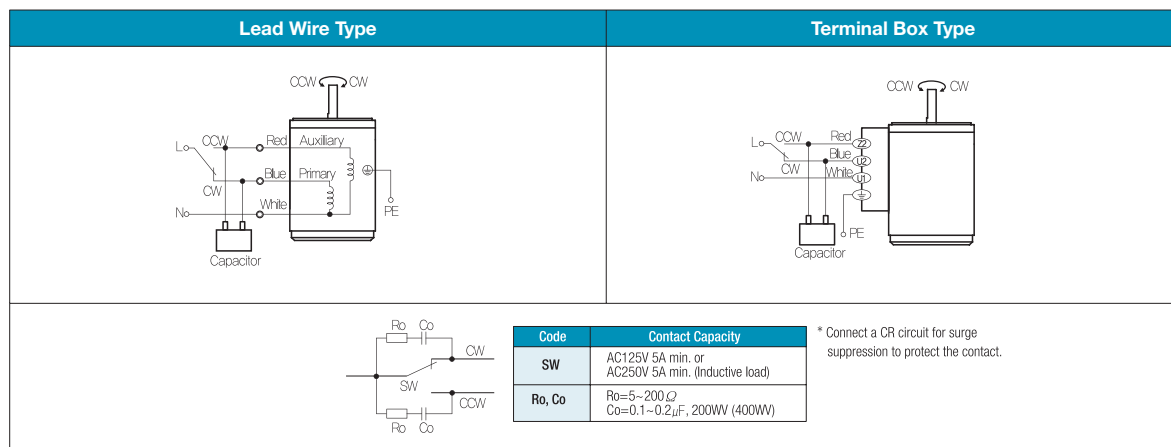
### WEIGHT

PART		WEIGHT(Kg)
MOTOR		0.7
GEAR BOX	6GBD3MH ~ 6GBD18MH	0.3
	6GBD20MH ~ 6GBD40MH	0.32
	6GBD50MH ~ 6GBD250MH	0.34

### 30(41)-Table1

SIZE(mm)	GEAR RATIO
30	6GBD3MH - 6GBD18MH
41	6GBD20MH - 6GBD250MH

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