

B AC Motors

Torque Motor 6W(□70mm)

6W Torque Motor 6W(□70mm)

Motor Specification

Model 7TDG□-6G: Gear Type Shaft 7TDD□-6: D-Cut Type Shaft	Rating at Locked Rotor	Voltage V	Frequency Hz	Poles	Starting Torque		Output Hz	At max. Output Power				Capacitor μF / VAC	
					kgfcm	N.m		Speed r/min	Torque kgfcm N.m	Current A	Input W		
7TDGA-6G	5min.	1φ 110	60	4	1.20	0.120	8	900	0.70	0.070	0.60	57	10.0 / 250
	Cont.	1φ 60			0.42	0.042	2.5		0.23	0.023	0.21	17	
7TDGD-6G	5min.	1φ 220	60	4	1.20	0.120	8	900	0.70	0.070	0.18	57	1.5 / 450
	Cont.	1φ 140			0.42	0.042	2.5		0.23	0.023	0.09	17	
7TDGE-6G	5min.	1φ 220~240	50	4	1.40	0.140	6	750	0.80	0.080	0.18	55	1.5 / 450
	Cont.	1φ 140			0.54	0.054	2.3		0.30	0.030	0.09	19	

- 1) Enter the phase & voltage code in the 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	
7TDG□-6G	7GBK□BMH	5min.	kgfcm	1.7	2.1	3.5	4.4	5.2	7.3	8.7	10.5	13.1	15.8	17.1	23.8	28.6	35.7	42.8	47.6	50.0	50.0	50.0
		N.m	0.17	0.20	0.34	0.43	0.51	0.71	0.85	1.02	1.29	1.54	1.68	2.33	2.80	3.50	4.20	4.66	4.90	4.90	4.90	
		Cont.	kgfcm	0.6	0.7	1.1	1.4	1.7	2.4	2.9	3.4	4.3	5.2	5.6	7.8	9.4	11.7	14.1	15.6	18.8	23.5	28.2
		N.m	0.06	0.07	0.11	0.14	0.17	0.23	0.28	0.34	0.42	0.51	0.55	0.77	0.92	1.15	1.38	1.53	1.84	2.30	2.76	

50Hz

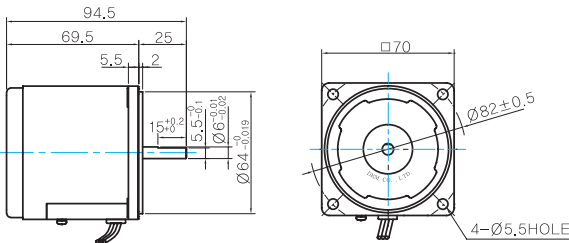
Motor Model	Gearbox Model	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	
7TDG□-6G	7GBK□BMH	5min.	kgfcm	2.0	2.4	4.0	5.0	6.0	8.3	10.0	12.0	15.0	18.0	19.6	27.2	32.6	40.8	49.0	50.0	50.0	50.0	50.0
		N.m	0.20	0.23	0.39	0.49	0.59	0.81	0.98	1.17	1.47	1.76	1.92	2.67	3.20	4.00	4.80	4.90	4.90	4.90	4.90	
		Cont.	kgfcm	0.7	0.9	1.5	1.9	2.2	3.1	3.7	4.5	5.6	6.8	7.3	10.2	12.2	15.3	18.4	20.4	24.5	30.6	36.7
		N.m	0.07	0.09	0.15	0.18	0.22	0.31	0.37	0.44	0.55	0.66	0.72	1.00	1.20	1.50	1.80	2.00	2.40	3.00	3.60	

- 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.

Dimensions

MOTOR ONLY

- MOTOR MODEL: 7TDD□-6 (NO FAN)



LEAD WIRE 300mm
UL STYLE NO,3266 AWG NO,20

MOTOR OUTPUT SHAFT

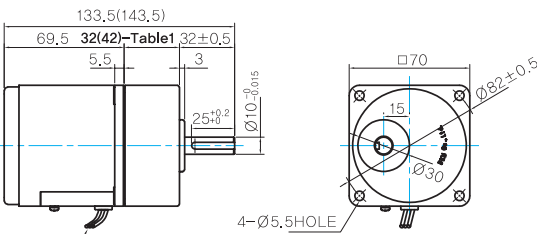
MODEL	SPEC
D-CUT TYPE	

GEARED MOTOR

G TYPE GEARBOX

- MOTOR MODEL: 7TDG□-6G (NO FAN)

- GEARBOX MODEL: 7GBK□BMH



LEAD WIRE 300mm
UL STYLE NO,3266 AWG NO,20

GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

KEY SPEC

GEARBOX	KEY SPEC
32	
42	

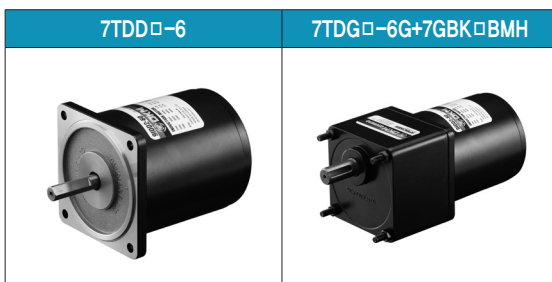
WEIGHT

PART	WEIGHT(Kg)	
MOTOR	0,94	
GEAR BOX	7GBK3BMH - 7GBK18BMH	0,36
	7GBK25BMH - 7GBK30BMH	0,44
	7GBK36BMH - 7GBK180BMH	0,5

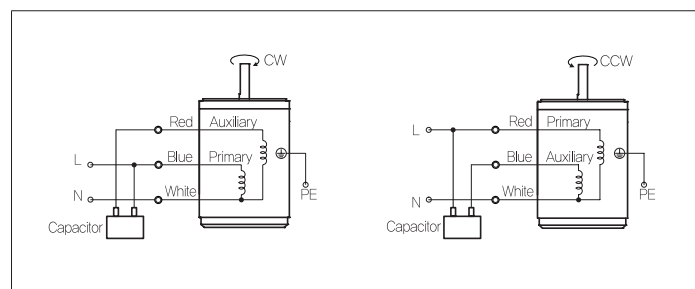
32(42)-Table1

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

Motor Images



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.
- 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, the motor may ignore the reversing command or change its direction after some delay.