B AC Motors

Torque Motor 10W(□80mm)

10W Torque Motor 10W(□80mm)

Motor Specification

Model 8TDG□-10G: Gear Type Shaft 8TDD□-10: D-Cut Type Shaft	Rating at Locked Rotor	Voltage V	Frequency Hz	Poles	Starting Torque kgfcm	 N.m	Output Hz	At max. Output Power Speed r/min	 Torque kgfcm	 N.m	 Current A	 Input W	Capacitor μF / VAC
8TDGA-10G	5min.	1ø 110	60	4	2.10	0.200	12	900	1.00	0.010	0.80	67	10.0 / 250
	Cont.	1ø 60			0.70	0.070	3.5		0.38	0.038	0.50	19	
8TDGD-10G	5min.	1ø 220	60	4	2.20	0.220	10		1.00	0.010	0.40	67	2.0 / 450
	Cont.	1ø 140			0.75	0.075	3.5		0.38	0.038	0.25	19	
8TDGE-10G	5min.	1ø 220~240	50	4	2.30	0.023	12	750	1.30	0.013	0.40	63	2.0 / 450
	Cont.	1ø 140			0.75	0.075	3.5		0.46	0.046	0.25	24	

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	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	360
8TDG□-10G	8GBK□ BMH	5min.	kgfcm	2.5	3.0	4.2	5.0	6.2	7.5	10.4	12.5	14.9	18.8	22.5	24.5	27.2	34.0	40.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
			N.m	0.24	0.29	0.41	0.49	0.61	0.73	1.02	1.22	1.46	1.84	2.21	2.40	2.67	3.33	4.00	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
		Cont.	kgfcm	0.9	1.1	1.6	1.9	2.4	2.8	3.9	4.7	5.7	7.1	8.6	11.4	12.6	15.8	18.9	23.7	28.4	31.5	37.8	47.3	50.0	50.0	50.0	50.0	50.0
			N.m	0.09	0.11	0.15	0.19	0.23	0.28	0.39	0.46	0.56	0.70	0.84	1.11	1.24	1.55	1.85	2.32	2.78	3.09	3.71	4.64	4.90	4.90	4.90	4.90	4.90

50Hz

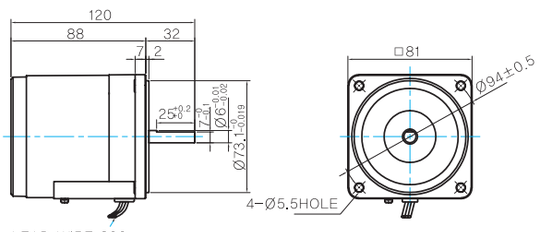
Motor Model	Gearbox Model	Gear Ratio		3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200	250	300	360
8TDG□-10G	8GBK□ BMH	5min.	kgfcm	3.2	3.9	5.4	6.5	8.1	9.7	13.5	16.2	19.4	24.4	29.3	31.8	35.4	44.2	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
			N.m	0.32	0.38	0.53	0.63	0.79	0.95	1.32	1.59	1.90	2.39	2.87	3.12	3.47	4.33	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
		Cont.	kgfcm	1.1	1.4	1.9	2.3	2.9	3.4	4.8	5.7	6.9	8.6	10.4	11.3	12.5	15.6	18.8	23.5	28.2	31.3	37.5	46.9	50.0	50.0	50.0	50.0	50.0
			N.m	0.11	0.13	0.19	0.22	0.28	0.34	0.47	0.56	0.67	0.85	1.01	1.10	1.23	1.53	1.84	2.30	2.76	3.07	3.68	4.60	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.

Dimensions

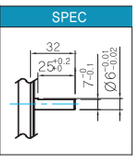
MOTOR ONLY

● MOTOR MODEL: 8TDD□-10 (NO FAN)



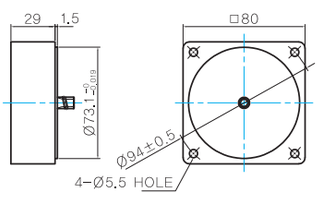
LEAD WIRE 300mm
UL STYLE NO.3271 AWG NO.22

● MOTOR OUTPUT SHAFT

MODEL	SPEC
D-CUT TYPE	

INTER-DECIMAL GEARBOX

● MODEL: 8XD10□□

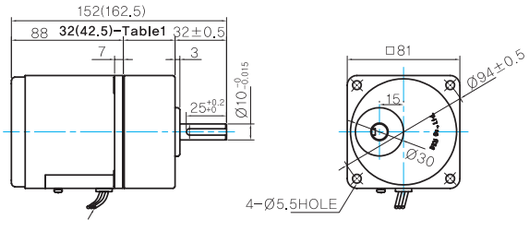


GEARED MOTOR

G TYPE GEARBOX

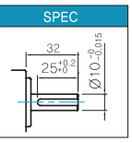
● MOTOR MODEL: 8TDG□-10G (NO FAN)

● GEARBOX MODEL: 8GBK□BMH

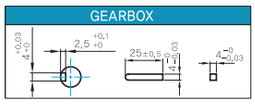


LEAD WIRE 300mm
UL STYLE NO.3271 AWG NO.22

● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

● KEY SPEC

GEARBOX


WEIGHT

PART		WEIGHT(Kg)
MOTOR		1.6
GEAR BOX	8GBK3BMH – 8GBK18BMH	0.48
	8GBK25BMH – 8GBK30BMH	0.61
	8GBK36BMH – 8GBK180BMH	0.67
	8GBK200BMH – 8GBK360BMH	0.63
	8XD10□□	0.44

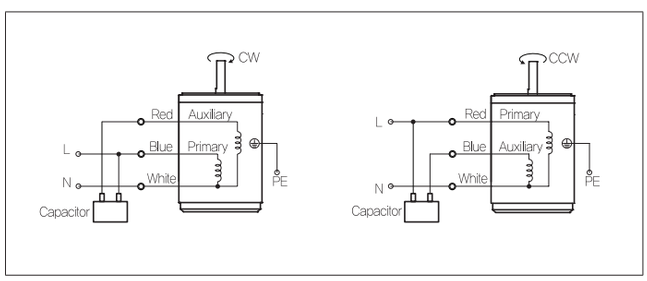
● 32(42.5)-Table1

SIZE(mm)	GEAR RATIO
32	8GBK3BMH – 8GBK18BMH
42.5	8GBK25BMH – 8GBK360BMH

Motor Images

8TDD□-10	8TDG□-10G+8GBK□BMH
	

Connection Diagrams



1) The direction of motor rotation is as viewed from the shaft end of the motor.
2) CW represents the clockwise direction, while CCW represents the counterclockwise direction.
3) 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