10W Speed Control Induction Motor 10W(□70mm)

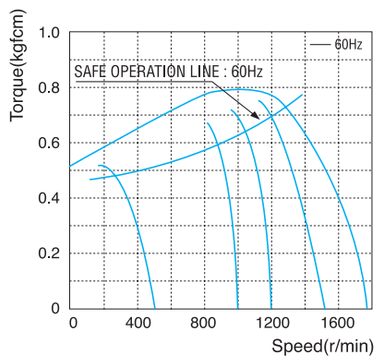
Motor Specification

Model 7SDG□-10G: Gear Type Shaft 7SDD□-10: D-Cut Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque		Permissible Torque 1200r/min		Permissible Torque 90r/min		Capacitor μF / VAC
							kgfcm	N.m	kgfcm	N.m	kgfcm	N.m	
7SDGA-10G	10	1ø110	60	4	Cont.	90-1700	0.60	0.060	0.82	0.082	0.50	0.050	3.0 / 250
7SDGD-10G	10	1ø220	60	4	Cont.	90-1700	0.80	0.080	0.82	0.082	0.50	0.050	1.0 / 450
7SDGE-10G	10	1ø220	50	4	Cont.	90-1400	0.58	0.058	0.70	0.070	0.35	0.035	0.8 / 450
		1ø240					0.70	0.070	0.75	0.075	0.40	0.040	

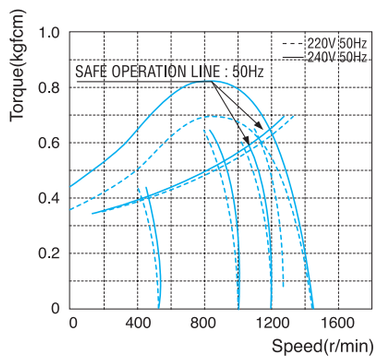
1) Enter the phase & voltage code in the in the box (□) within the motor model name.
2) All models contain a built-in thermal protector.
3) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Speed-Torque Characteristics

7SDGA-10G / 7SDGD-10G



7SDGE-10G



Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30
7SDG□-10G	7GBK□BMH	1200	110	60	kgfcm	2.0	2.5	4.1	5.1	6.1	8.5	10.2	12.3	15.4	18.5
					N.m	0.20	0.24	0.40	0.50	0.60	0.83	1.00	1.20	1.51	1.81
			220	60	kgfcm	2.0	2.5	4.1	5.1	6.1	8.5	10.2	12.3	15.4	18.5
					N.m	0.20	0.24	0.40	0.50	0.60	0.83	1.00	1.20	1.51	1.81
			220/240	50	kgfcm	1.9	2.2	3.7	4.7	5.6	7.8	9.3	11.2	14.1	16.9
					N.m	0.18	0.22	0.37	0.46	0.55	0.76	0.92	1.10	1.38	1.65
		90	110	60	kgfcm	1.2	1.5	2.5	3.1	3.7	5.2	6.2	7.5	9.4	11.3
					N.m	0.12	0.15	0.24	0.31	0.37	0.51	0.61	0.73	0.92	1.10
			220	60	kgfcm	1.2	1.5	2.5	3.1	3.7	5.2	6.2	7.5	9.4	11.3
					N.m	0.12	0.15	0.24	0.31	0.37	0.51	0.61	0.73	0.92	1.10
			220/240	50	kgfcm	1.0	1.2	2.0	2.5	3.0	4.2	5.0	6.0	8.3	10.0
					N.m	0.10	0.12	0.20	0.24	0.29	0.41	0.49	0.59	0.81	0.98

B AC Motors

S.C. Induction Motor 10W (□70mm)

Max. Permissible Torque at Output Shaft of Gearbox

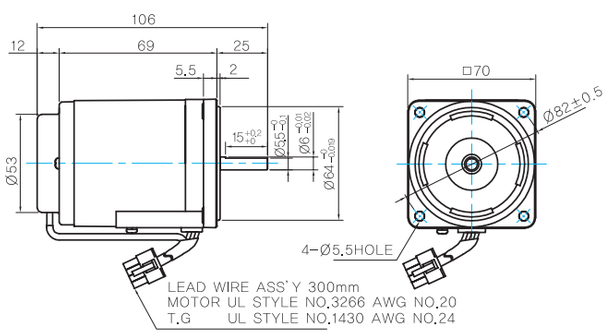
Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	36	50	60	75	90	100	120	150	180
7SDG□-10G	7GBK□BMH	1200	110	60	kgfcm	20.1	27.9	33.5	41.8	50.0	50.0	50.0	50.0	50.0
					N.m	1.97	2.73	3.28	4.10	4.90	4.90	4.90	4.90	4.90
			220	60	kgfcm	20.1	27.9	33.5	41.8	50.0	50.0	50.0	50.0	50.0
					N.m	1.97	2.73	3.28	4.10	4.90	4.90	4.90	4.90	4.90
			220/240	50	kgfcm	18.4	25.5	30.6	38.3	45.9	50.0	50.0	50.0	50.0
					N.m	1.80	2.50	3.00	3.75	4.50	4.90	4.90	4.90	4.90
		90	110	60	kgfcm	12.2	17.0	20.4	25.5	30.6	34.0	40.8	50.0	50.0
					N.m	1.20	1.67	2.00	2.50	3.00	3.33	4.00	4.90	4.90
			220	60	kgfcm	12.2	17.0	20.4	25.5	30.6	34.0	40.8	50.0	50.0
					N.m	1.20	1.67	2.00	2.50	3.00	3.33	4.00	4.90	4.90
			220/240	50	kgfcm	12.0	16.6	19.9	24.9	29.9	33.2	39.8	49.8	50.0
					N.m	1.17	1.63	1.95	2.44	2.93	3.25	3.90	4.88	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.

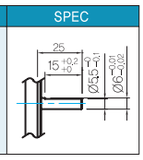
Dimensions

MOTOR ONLY

● MOTOR MODEL: 7SDD□-10 (NO FAN)



● MOTOR OUTPUT SHAFT

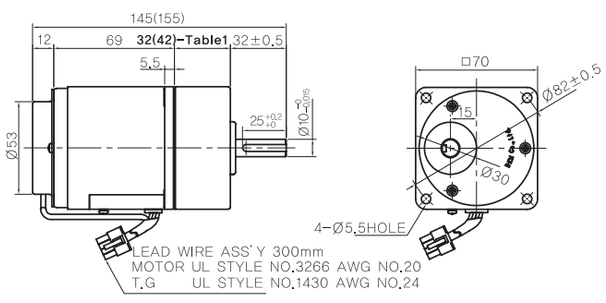
MODEL	SPEC
D-CUT TYPE	

GEARED MOTOR

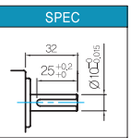
G TYPE GEARBOX

● MOTOR MODEL:
7SDG□-10G (NO FAN)

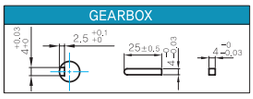
● GEARBOX MODEL:
7GBK□BMH



● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

● KEY SPEC

GEARBOX


WEIGHT

PART		WEIGHT(Kg)
MOTOR		0.93
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

7SDD□-10	7SDG□-10G+7GBK□BMH