B AC Motors

S.C. Induction Motor 6W (□60mm)

6W Speed Control Induction Motor 6W(□60mm)

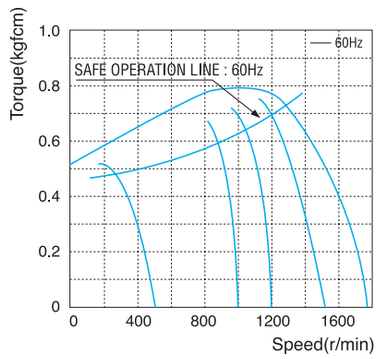
Motor Specification

Model 6SDG□-6G: Gear Type Shaft 6SDD□-6: D-Cut Type Shaft Lead Wire Type	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
							kgfcm	N.m	kgfcm	N.m	kgfcm	N.m	
6SDGA-6G	6	1ø110	60	4	Cont.	90-1700	0.35	0.035	0.53	0.053	0.35	0.035	2.5 / 250
6SDGD-6G	6	1ø220	60	4	Cont.	90-1700	0.39	0.039	0.55	0.055	0.40	0.040	0.7 / 450
6SDGE-6G	6	1ø220	50	4	Cont.	90-1400	0.30	0.030	0.45	0.045	0.30	0.030	0.6 / 450
		1ø240					0.35	0.035	0.50	0.050	0.30	0.030	

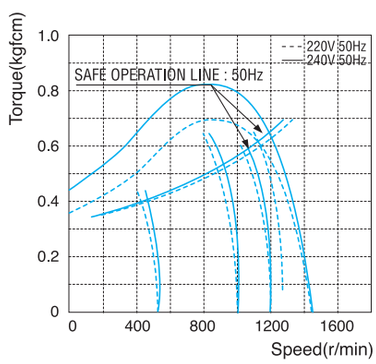
1) Enter the phase & voltage code in the in the box (□) within the motor model name.
2) All models contain a built-in thermal protector.
3) Gear Type Shaft are for attaching Gearbox and D-Cut Type Shaft are for using motor only.

Speed-Torque Characteristics

6SDGA-6G



6SDGE-6G



Motor Images

6SDD□-6

6SDG□-6G+6GBD□MH

Max. Permissible Torque at Output Shaft of Gearbox

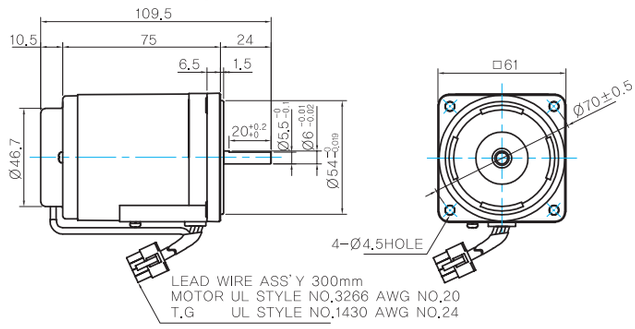
Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	3	3.6	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
6SDG□-6G	6GBK□ BMH	1200	110	60	kgfcm	1.4	1.7	2.9	3.6	4.3	6.0	7.2	8.7	10.9	13.1	14.2	19.7	23.7	29.6	35.5	39.4	47.3	50.0	50.0
					N.m	0.14	0.17	0.28	0.35	0.42	0.59	0.71	0.85	1.07	1.28	1.39	1.93	2.32	2.90	3.48	3.87	4.64	4.90	4.90
			220	60	kgfcm	1.4	1.7	2.8	3.5	4.2	5.8	7.0	8.4	10.5	12.6	13.7	19.0	22.8	28.6	34.3	38.1	45.7	50.0	50.0
					N.m	0.14	0.16	0.27	0.34	0.41	0.57	0.68	0.82	1.03	1.23	1.34	1.87	2.24	2.80	3.36	3.73	4.48	4.90	4.90
			220/240	50	kgfcm	1.1	1.3	2.2	2.8	3.4	4.7	5.6	6.7	8.4	10.1	11.0	15.3	18.4	23.0	27.5	30.6	36.7	45.9	50.0
					N.m	0.11	0.13	0.22	0.27	0.33	0.46	0.55	0.66	0.83	0.99	1.08	1.50	1.80	2.25	2.70	3.00	3.60	4.50	4.90
		90	110	60	kgfcm	1.1	1.3	2.1	2.7	3.2	4.5	5.4	6.4	8.1	9.7	10.5	14.6	17.5	21.9	26.3	29.2	35.1	43.9	50.0
					N.m	0.10	0.13	0.21	0.26	0.31	0.44	0.52	0.63	0.79	0.95	1.03	1.43	1.72	2.15	2.58	2.87	3.44	4.30	4.90
			220	60	kgfcm	1.0	1.3	2.1	2.6	3.1	4.4	5.2	6.3	7.9	9.5	10.3	14.3	17.1	21.4	25.7	28.6	34.3	42.8	50.0
					N.m	0.10	0.12	0.20	0.26	0.31	0.43	0.51	0.61	0.77	0.93	1.01	1.40	1.68	2.10	2.52	2.80	3.36	4.20	4.90
			220/240	50	kgfcm	0.5	0.7	1.1	1.4	1.6	2.3	2.7	3.3	4.1	5.0	5.4	7.5	9.0	11.2	13.5	15.0	18.0	22.4	26.9
					N.m	0.05	0.06	0.11	0.13	0.16	0.22	0.27	0.32	0.40	0.49	0.53	0.73	0.88	1.10	1.32	1.47	1.76	2.20	2.64

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.

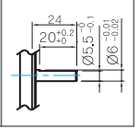
Dimensions

MOTOR ONLY

● MOTOR MODEL: 6SDD□-6 (NO FAN)



● MOTOR OUTPUT SHAFT

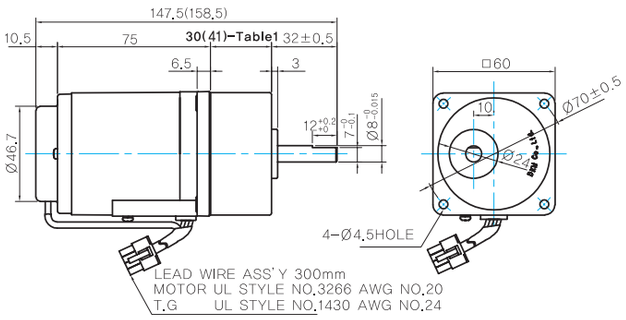
MODEL	SPEC
D-CUT TYPE	

GEARED MOTOR

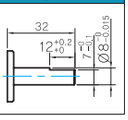
G TYPE GEARBOX

● MOTOR MODEL: 6SDG□-6G (NO FAN)

● GEARBOX MODEL: 6GBD□MH (NO FAN)



● GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	

WEIGHT

PART		WEIGHT(Kg)
MOTOR		0.75
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	6GBD25MH – 6GBD180MH