

40W

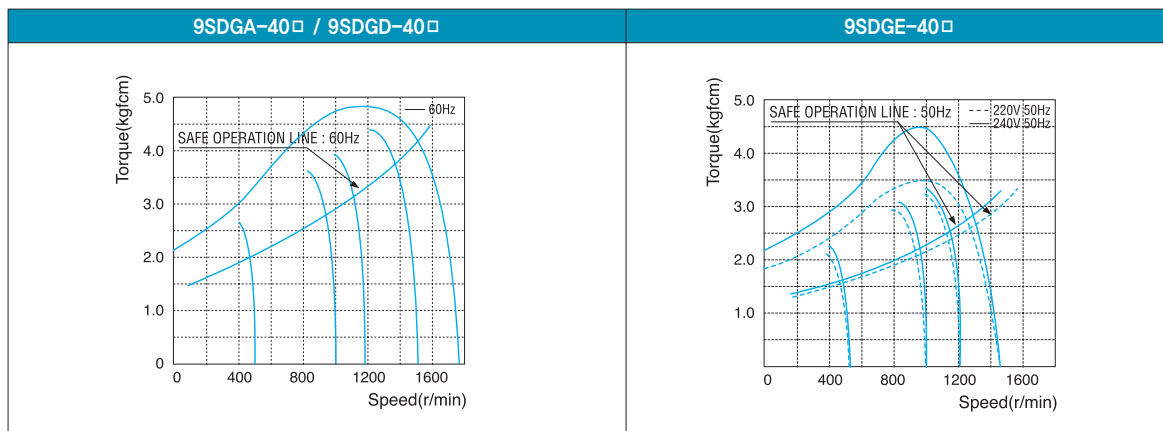
Speed Control Induction Motor
40W(□90mm)

Motor Specification

Model 9SDG*-40□: Gear Type Shaft 9SDD*-40: D-Cut Type Shaft 9SDK*-40: Key Type Shaft	Output W	Voltage V	Frequency Hz	Poles	Duty	Speed Range r/min	Starting Torque kgfcm N.m		Permissible Torque				Capacitor μF / VAC
									1200r/min		90r/min		
									kgfcm	N.m	kgfcm	N.m	
9SDGA-40□	40	1∅ 110	60	4	Cont.	90-1700	2.00	0.200	2.90	0.290	1.20	0.120	10.0 / 250
9SDGD-40□	40	1∅ 220	60	4	Cont.	90-1700	2.00	0.200	2.90	0.290	1.20	0.120	2.5 / 450
9SDGE-40□	40	1∅ 220	50	4	Cont.	90-1400	1.70	0.170	2.50	0.250	0.70	0.070	2.0 / 450
		1∅ 240					2.10	0.210	3.00	0.300	0.70	0.070	

- 1) Enter the phase & voltage code in the place * and enter the model type of attaching Gearbox 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 & Key Type Shaft are for using motor only.

Speed-Torque Characteristics



Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	2	3	3.6	5	6	7.5	9	10	12.5	15	18	25	30
9SDG□ -40G	9GBK□ BMH	1200	110	60	kgfcm	4.8	7.2	8.7	12.0	14.4	18.1	21.7	24.1	30.1	36.1	39.2	54.4	65.3
					N.m	0.47	0.71	0.85	1.18	1.42	1.77	2.12	2.36	2.95	3.54	3.84	5.33	6.39
					kgfcm	4.8	7.2	8.7	12.0	14.4	18.1	21.7	24.1	30.1	36.1	39.2	54.4	65.3
			N.m	0.47	0.71	0.85	1.18	1.42	1.77	2.12	2.36	2.95	3.54	3.84	5.33	6.39		
			220/240	50	kgfcm	5.0	7.5	9.0	12.5	14.9	18.7	22.4	24.9	31.1	37.4	40.5	56.3	67.5
					N.m	0.49	0.73	0.88	1.22	1.46	1.83	2.20	2.44	3.05	3.66	3.97	5.51	6.62
		kgfcm			2.0	3.0	3.6	5.0	6.0	7.5	9.0	10.0	12.5	14.9	16.2	22.5	27.0	
		N.m	0.20	0.29	0.35	0.49	0.59	0.73	0.88	0.98	1.22	1.46	1.59	2.21	2.65			
		90	60	kgfcm	2.0	3.0	3.6	5.0	6.0	7.5	9.0	10.0	12.5	14.9	16.2	22.5	27.0	
				N.m	0.20	0.29	0.35	0.49	0.59	0.73	0.88	0.98	1.22	1.46	1.59	2.21	2.65	
				kgfcm	1.2	1.7	2.1	2.9	3.5	4.4	5.2	5.8	7.3	8.7	9.5	13.1	15.8	
		N.m	0.11	0.17	0.20	0.28	0.34	0.43	0.51	0.57	0.71	0.85	0.93	1.29	1.54			

B AC Motors

S.C. Induction Motor 40W (□90mm)

Max. Permissible Torque at Output Shaft of Gearbox

Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	36	40	50	60	75	90	100	120	150	180	200	
9SDD□ -40G	9GBK□ BMH	1200	110	60	kgfcm	71.0	78.9	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
					N.m	6.96	7.73	9.66	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	
			kgfcm	71.0	78.9	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		N.m	6.96	7.73	9.66	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	
		220/240	50	kgfcm	73.4	81.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		N.m		7.20	8.00	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	
90	60	kgfcm	29.4	32.6	40.8	49.0	61.2	73.4	81.6	97.9	100.0	100.0	100.0	100.0	100.0		
		N.m	2.88	3.20	4.00	4.80	6.00	7.20	8.00	9.60	9.80	9.80	9.80	9.80			
		kgfcm	29.4	32.6	40.8	49.0	61.2	73.4	81.6	97.9	100.0	100.0	100.0	100.0			
N.m	2.88	3.20	4.00	4.80	6.00	7.20	8.00	9.60	9.80	9.80	9.80	9.80					
220/240	50	kgfcm	17.1	19.0	23.8	28.6	35.7	42.8	47.6	57.1	71.4	85.7	85.7	85.7			
N.m		1.68	1.87	2.33	2.80	3.50	4.20	4.66	5.60	7.00	8.40	8.40	8.40				

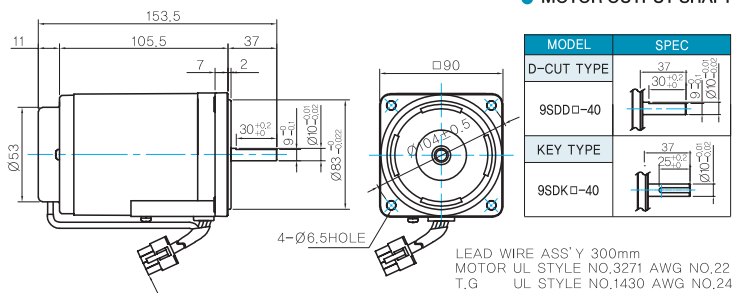
Motor Model	Gearbox Model	r/min	V	Hz	Gear Ratio	10	12	15	18	25	30	36	50	60
9SDD□ -40W	9WD□BL/ □BR/□BRL	1200	110	60	kgfcm	23.8	27.8	33.5	38.6	50.8	57.4	66.8	87.0	95.7
					N.m	2.33	2.73	3.28	3.79	4.97	5.63	6.55	8.53	9.38
			kgfcm	24.1	28.9	36.1	43.3	60.2	72.2	86.7	120.4	122.4		
		N.m	2.36	2.83	3.54	4.25	5.90	7.08	8.49	11.79	12.00			
		220/240	50	kgfcm	24.6	28.8	34.7	40.0	52.5	59.4	69.1	90.0	99.0	
		N.m		2.41	2.82	3.40	3.92	5.15	5.82	6.77	8.82	9.70		
90	60	kgfcm	9.8	11.5	13.9	16.0	21.0	23.8	27.6	36.0	39.6			
		N.m	0.96	1.13	1.36	1.57	2.06	2.33	2.71	3.53	3.88			
		kgfcm	9.8	11.5	13.9	16.0	21.0	23.8	27.6	36.0	39.6			
N.m	0.96	1.13	1.36	1.57	2.06	2.33	2.71	3.53	3.88					
220/240	50	kgfcm	5.7	6.7	8.1	9.3	12.3	13.9	16.1	21.0	23.1			
N.m		0.56	0.66	0.79	0.91	1.20	1.36	1.58	2.06	2.26				

- 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

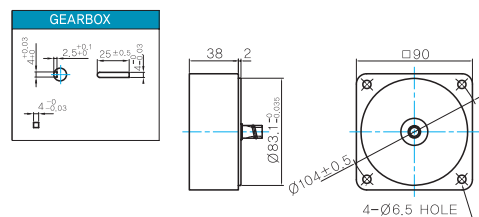
MOTOR ONLY

- MOTOR MODEL: 9SDD□-40 (NO FAN)



INTER-DECIMAL GEARBOX

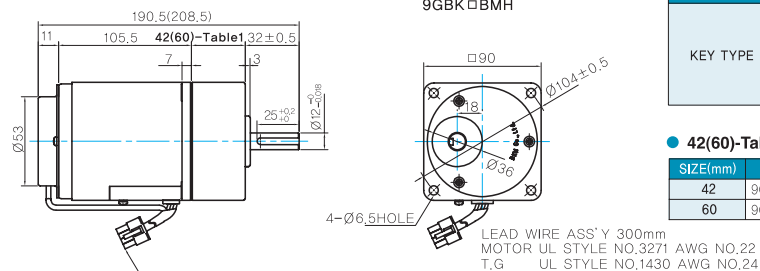
- MODEL: 9XD10□□



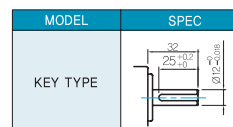
GEARED MOTOR

G TYPE GEARBOX

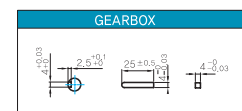
- MOTOR MODEL: 9SDD□-40G (NO FAN)
- GEARBOX MODEL: 9GBK□BMH



GEARBOX OUTPUT SHAFT



KEY SPEC

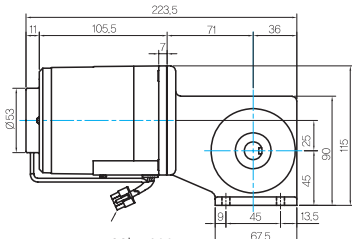


42(60)-Table1

SIZE(mm)	GEAR RATIO
42	9GBK2BMH - 9GBK18BMH
60	9GBK25BMH - 9GBK200BMH

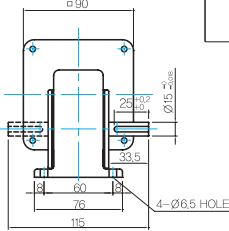
W TYPE GEARBOX

- MOTOR MODEL:
9SDG□-40W (NO FAN)

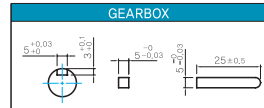


LEAD WIRE ASS'Y 300mm
MOTOR UL STYLE NO.3271 AWG NO.22
T.G UL STYLE NO.1430 AWG NO.24

- GEARBOX MODEL:
9WD□BL/BR/BRL



- KEY SPEC



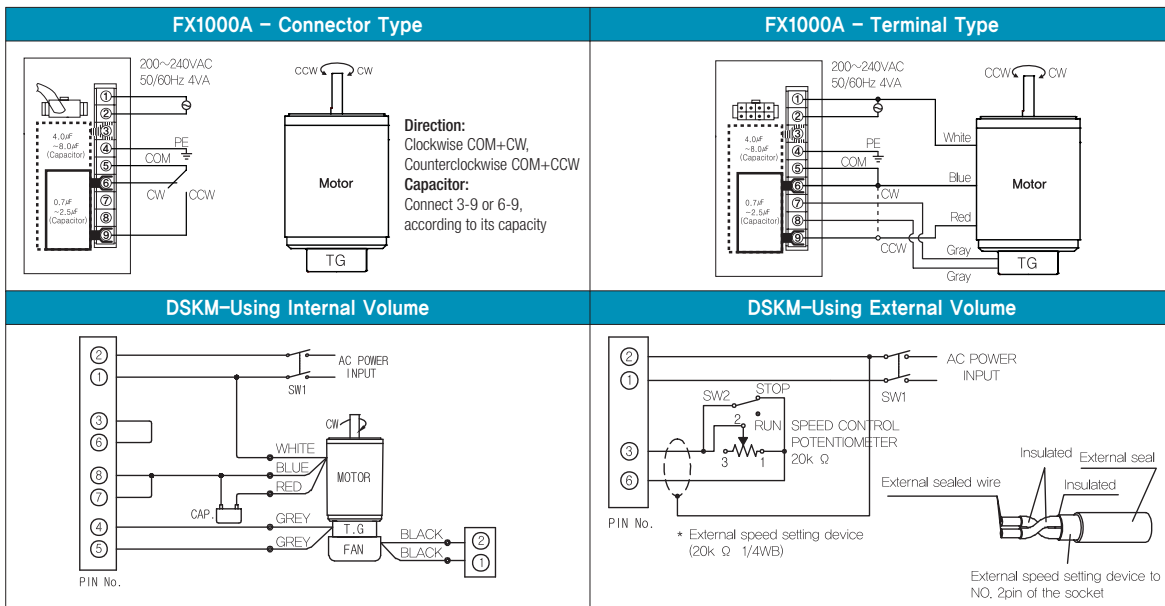
WEIGHT

PART	WEIGHT(Kg)	
MOTOR	2.4	
GEAR BOX	9GBK2BMH ~ 9GBK15BMH	0.67
	9GBK18BMH ~ 9GBK30BMH	0.96
	9GBK36BMH ~ 9GBK200BMH	1.07
	9WD□BL/BR/BRL	1.0
	9XD10□□	0.5

Motor Images



Connection Diagrams



1) At first connect the speed controller with the motor as instructed in connection diagrams. And then input the external power to both of the terminal 'AC' for the rated speed operation.

Now you can adjust the main volume to control the output speed of motor.

2) The direction of motor rotation is as viewed from the shaft end of the motor.

3) CW represents the clockwise direction, while CCW represents the counterclockwise direction.

4) When using powerful fan (F2 type) attached motor, connect two black wires of the fan to No.1 and No.2 terminals in order to supply power.